



## Geotechnical and Geoenvironmental Report

Site: Haydn Terrace

Prepared For: Merthyr Tydfil Housing Association

Issue Date: June 2025

Job No: 17412

**REPORT TITLE :** **Geotechnical and Geoenvironmental Report:  
Proposed Residential Development, Haydn  
Terrace, Merthyr Tydfil**

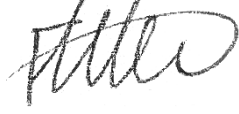
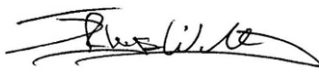
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|              |                |                       |
|              |                |                       |

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## Executive Summary

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Location and Proposed Development</b> | <i>Residential development is proposed at Hillcrest Park. The site is an area of open land, landscaped within the western corner, which falls to the southeast from 320mAOD to 295mAOD. Hillcrest Park is irregular in shape and occupies an approximate area of 2.2Ha. The site lies to the rear of Haydn Terrace.</i>                                                                                                                                                                                                                                                                       |
| <b>Site History</b>                           | <i>The earliest historical map circa 1880 showed mixed woodland to grow across the centre of the site. Old quarries at Pen-y-bryn were located onsite crossing the southern area of the site. The BGS records the quarry on site to be a sandstone quarry. The 1957 edition no longer labelled the quarry on site and the quarry appeared to have been infilled and the mixed woodland appeared to have been cut.</i>                                                                                                                                                                         |
| <b>Geology</b>                                | <i>The geological maps of the area show the site to be underlain by rocks of the "Farewell Rock" Sandstones. No known coal seams are conjectured beneath the site at shallow depth. The site lies on the upthrown side of the Dowlais Fault which lies some 100m west of the site. Superficial deposits of glacial Till are shown to overly the solid geology. A significant depth of made ground is expected within the backfilled sandstone quarry.</i>                                                                                                                                     |
| <b>Radon</b>                                  | <i>No radon protection will be required for new buildings constructed at the site.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Coal Mining Risk Assessment</b>            | <i>The Coal Authority report states that the site is not within the likely zone of influence from past workings, nor within the likely zone of influence of any present underground coal workings, nor are there any known mine entries within, or within 20m of its boundary. The risk from shallow workings is therefore considered to be insignificant.</i>                                                                                                                                                                                                                                |
| <b>Ground Conditions</b>                      | <i>Variable ground conditions were encountered across the site. Ground conditions were characterised as either quarry backfill, fill over the suspected edge of the sandstone quarry and the natural ground conditions</i>                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Contamination of Concern</b>               | <p><i>Contamination was detected on site mainly within ashy fill within the backfilled quarry. Elevated concentrations of Arsenic, Copper, Lead, PAHs and SVOCs were detected.</i></p> <p><i>The area initially identified as the location for a drainage pond was found to exhibit contaminant concentrations exceeding residential with home grown produce thresholds for Dibenz(a,h)anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, lead, and arsenic.</i></p> <p><i>Mitigation measures are required</i></p>                                                                            |
| <b>Ecological Concerns</b>                    | <i>Japanese Knotweed was identified on site during investigation works.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Ground Gas Risk Assessment</b>             | <i>Six rounds of gas monitoring have been undertaken. A Gas Screening Value (GSV) of 0.004 l/hr is calculated for carbon dioxide and 0.0005 l/hr for methane. With reference to Table 8.5 of CIRIA C665 (2007) the site falls into Gas Characteristic Situation (GCS) 1, requiring no special precautions in respect to soil gas however, due to the identification of volatile contaminants within the backfilled quarry it is considered that VOC mitigation protection will be required to be installed within proposed buildings to protect end uses from volatile organic compounds.</i> |
| <b>Foundation Solution</b>                    | <i>Piled foundations are considered likely within the backfilled quarry since the fill appears to be highly variable and deep. In other areas of the site shallow trench foundations will be suitable.</i>                                                                                                                                                                                                                                                                                                                                                                                    |

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ANNEX A Envirocheck Report  
ANNEX B Risk Assessment Definitions  
ANNEX C Trial Pit Logs  
ANNEX D Soakaway Results  
ANNEX E Borehole Logs  
ANNEX F Laboratory Soil Chemical Test Results  
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ANNEX H Geotechnical Test Results  
ANNEX I Coal Authority Mining Report

## **Drawings**

Drawing 01 Proposed Site Layout

## **SECTION 1 Introduction and Proposed Development**

### **1.1 Introduction**

Merthyr Housing association (the Client) is proposing the development of land to the rear of Haydn Terrace, Merthyr Tydfil.

TFW Group Limited have been commissioned by the Client to undertake a geoenvironmental assessment and geotechnical investigation of the site.

The main objectives of the geoenvironmental assessment programme are:

- Investigate the potential human health and environmental liabilities at the site associated with any contamination
- Provide a summary of the human health and environmental conditions at the site, together with any necessary further intrusive works and / or remediation works to render the site fit for its intended use

The main objectives of the geotechnical site investigation are:

- Investigated the type, strength and bearing characteristics of the shallow superficial and underlying solid geology
- Investigate the risk, if any, from historical shallow underground mining features
- Provide engineering foundation and floor slab recommendations for the proposed development
- Provide infiltration rates and stormwater drainage viability.
- Provide recommendations regarding any other geotechnical aspects pertaining to the development

In order to achieve the above objectives, TFW Group Limited carried out an assessment programme including a review of existing data, followed by a field investigation to collect geotechnical and geoenvironmental data from selected locations.

### **1.2 Limitations and Exceptions of Investigation**

The Client has requested that a Geoenvironmental Site Assessment (GSA) and Geotechnical Investigation (GI) be performed to enable the outlined main objectives.

The GSA and GI were conducted, and this report has been prepared for the sole internal reliance of the Client and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of TFW Group Limited. If an unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill. The report represents the findings and opinions of experienced geoenvironmental and geotechnical consultants. TFW Group Limited does not provide legal advice and the advice of lawyers may be required.

The subsurface geological profiles, any contamination and other plots are generalised by necessity and have been based on the information found at the locations of the exploratory holes and depths sampled and tested.

The site investigation area was limited by the presence of Japanese Knotweed, areas of hard standing and slopes too steep to safely work on using the chosen site investigation method.

### **1.3 Quality Assurance**

The quality and environmental aspects of the assessment comply with TFW Group Limited business management system which is UKAS Accredited to ISO 9001:2015 and ISO 14001:2015 standards.

## SECTION 2 Review of Existing Data

### 2.1 Physical Setting and Current Site Use

The development site is irregular in shape and locates at Hillcrest Park, to the rear of Haydn Terrace in Merthyr Tydfil. The site centres on an approximate National Grid Reference of 305770, 208020, occupying a plan area of approximately 2.2 Hectares.

The site is an area of open land, landscaped within the western corner, which falls to the southeast from 320mAOD to 295mAOD. The site slopes steeply in places whilst the area of the former sandstone quarry appears to have been filled and benched. A stand of Japanese Knotweed identified by ecologists had died back but could be recognised. Isolated areas of fly-tipping and bonfires exist on site.

Site boundaries are defined by residential properties and the roads servicing them.

The site location can be seen on **Figure 2.1** along with the proposed site layout on **Drawing 01**.

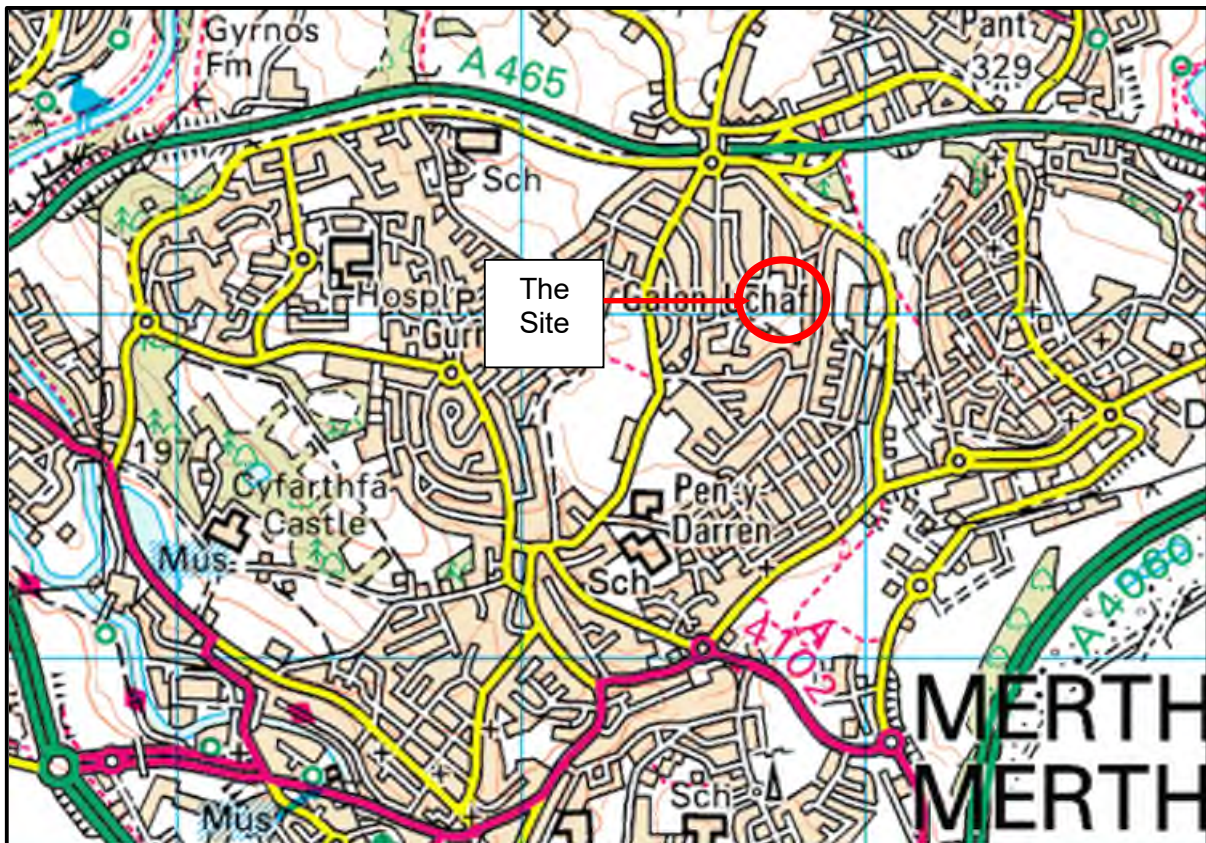


Figure 2.1 Site Location

### 2.2 Site History

Historical maps of the site have been obtained in an Envirocheck Report, provided by Landmark Information Group. The history plans are supplied in **Annex A** of this report, and the most relevant editions are summarised in **Table 2.1**. Distances where quoted are approximate, and any changes in-between map editions may not be recorded.

**Table 2.1 Historical Development from Map Information**

| <b>Map Edition &amp; Scale</b> | <b>Key Features on Site</b>                                                                                                                                                                                                                                                  | <b>Key Features off Site</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1887<br>1:2,500                | The earliest map obtained shows mixed woodland to grow across the centre of the site. Old quarries at Pen-y-bryn are located onsite crossing the southern area of the site and some 100m southwest of the site. The BGS records the quarry on site to be a sandstone quarry. | The surrounding environs consist of mainly field land, interspaced with a few cottages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1900<br>1:2,500                | The old quarries had reopened with recent quarrying joining the two together.                                                                                                                                                                                                | The surrounding area remains unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1904                           | The site remains unchanged.                                                                                                                                                                                                                                                  | The surrounding area remains unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1919<br>1:2,500                | The quarry had encroached towards the southern boundary of the site and appeared to have been deepened.                                                                                                                                                                      | Significant residential development is shown some 50m southeast of the site off Haydn Terrace.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1956/1957<br>1:1,250           | The quarry is no longer visible and appeared to have been infilled. The mixed woodland also appears to have been felled and cut.                                                                                                                                             | Immediately south of the site residential properties had been built along Garden City (These buildings are presumed to have been completed shortly after 1919.)<br>Significant residential development is shown surrounding the site. Haydn Terrace had been continued north alongside the eastern site boundary. Residential properties had been built of Marshall Crescent to the north and Mitchell Crescent to the northwest. Small domestic garages are shown on the northern boundary off Marshall Crescent. Mitchell Crescent appears to have been raised with fill placed along the north-western boundary. |
| 1984/1988<br>1:2,500           | An area of hardstanding, currently used as car parking, had been built within the western corner of the site whilst a drain had been laid running north to south off the eastern site boundary                                                                               | More residential development is shown towards the southwest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2014<br>1:10,00                | The site remains unchanged.                                                                                                                                                                                                                                                  | The surrounding area remains unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2022                           | The site remains unchanged.                                                                                                                                                                                                                                                  | The surrounding area remains unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 2.3 Geological Setting

### 2.3.1 Geology

The 1:50,000 scale (sheet 231) and 1:10,560 scale (Sheet SO 00NE) geological maps of the area show the site to be underlain by rocks of the Lower Coal Measures of Carboniferous in



Age. The site is underlain by the “Farewell Rock” Sandstones. These rocks consist of high quality sandstone rich in silica and ~80m thick on the east crop of the South Wales Coalfield. The base is taken at the base of the *Gastrioceras Subcrenatum* Marine Band which outcrops some 200m north of the site. No known workable coal seams are conjectured beneath the site at shallow depth. Detailed stratigraphical information is provided in **Table 2.2**.

**Table 2.2 Detailed Stratigraphical Information**

| Period        | Formation                                                                      |
|---------------|--------------------------------------------------------------------------------|
| Carboniferous | South Wales Lower Coal Measures Formation - Mudstone, siltstone and sandstone. |

The local geology dips ~16° to the southeast. The site lies on the upthrown side of the Dowlais Fault which lies some 100m west of the site. The Dowlais Fault is a normal fault which runs parallel to the dip direction running from the northwest to southeast.

Superficial deposits of glacial till are shown to overlie the solid geology. These soils were formed in cold periods with Ice Age glaciers scouring the landscape and depositing moraines of till with outwash sand and gravel deposits from seasonal and post glacial meltwaters up to 2 million years ago in the Quaternary Period.

A significant depth of made ground is expected within the backfilled sandstone quarry. The quarry and site is likely to have been modified by past levelling exercises.

### 2.3.2 Radon

The Envirocheck Report (**Annex A**) details that no radon protective measures are required for new developments on the investigation site.

### 2.3.3 Mining

Relevant BGS mineral sites as recorded in the Envirocheck Report datasheets (**Annex A**) are summaries in **Table 2.3**.

**Table 2.3 BGS Recorded Mineral Sites**

| Site Name  | Distance/ Direction from site | Type     | Commodity |
|------------|-------------------------------|----------|-----------|
| Pen Y Bryn | 13m Southwest                 | Opencast | Sandstone |

A Mining Report was purchased from the Coal Authority. A copy of the Coal Authority Mining Report is presented in **Annex H**. The report recorded that the site is not within the likely zone of influence from past workings. The site is not within the likely zone of influence of any present underground coal workings. The report records that there are no known mine entries within the site or within 20m of its boundary.

The report records that the Coal Authority has not received a damage notice or claim for coal mining subsidence for the property, or any property within 50m (since 31<sup>st</sup> October 1994). There is no record of mine gas emission requiring action by the Coal Authority.

### 2.3.4 Natural Hazards

The site is not within influencing distance of Karstic rocks which are vulnerable to dissolution. No natural cavities are recorded within 500m of the site boundary.

The South Wales Coalfield Landslip Survey, Report Number EG80/4 produced by the Institute of Geological Sciences Special Surveys Division Engineering Geology Unit has been consulted for the local area.

The 1:50,000 scale map titled, Landslip Distribution and Topography Sheet 2 dated December 1980 records no landslips within 2km of the site.

Despite steepened slopes there was no obvious evidence of landslip activity in the immediate vicinity of the site during the site walk over.

## 2.4 Environmental Setting

The following sections have been compiled using the Landmark Information Group Envirocheck datasheet and maps which can be found in **Annex A**.

### 2.4.1 Hydrogeology

Superficial deposits beneath the site have an aquifer designation of unproductive strata.

The bedrock deposits beneath the site have an aquifer designation of secondary aquifer – A.

Deeper groundwater flow within the underlying bedrock will be controlled by the strata dip and any fractures or bedding planes within the rock units.

The hydraulic gradient will be at its steepest during periods of heavy rainfall and aquifer recharge.

The site does not locate within a groundwater source protection zone.

The nearest groundwater abstraction point is located 1995m west, operated by Balfour Beatty Civil Engineering Limited.

### 2.4.2 Hydrology

The nearest surface water feature locates on site and comprises a small surface drain.

The topography of the site slopes down towards to the east. Surface water is likely to drain in this direction.

### 2.4.3 Flooding

The site is not at risk from extreme flooding from rivers or sea. The Environment Agency classifies the site as having a very low risk of flooding by rivers or seas. Each year, the area has a chance of flooding by rivers and seas of less than 1 in 1000 (0.1%).

### 2.4.4 Waste

There are no recorded landfill sites within 250m of the site. However, it is known that the sandstone quarry within the southern area of the site has been backfilled with a significant volume of made ground of unknown origin.

There are no licensed waste management facilities or waste transfer sites within 250m of the site.

#### **2.4.5 Pollution**

No pollution incidents are recorded to have occurred within 250m radius of the site.

#### **2.4.6 Sensitive Land Use**

The site is not located within a sensitive land use area.

#### **2.4.7 Industrial Land Use**

There are no relevant contemporary trade directory entries recorded within proximity of the site.

### **2.5 Ecology**

During the site walk over the presence of Japanese Knotweed was noted along the site's northern boundary.

Information on managing Japanese Knotweed can be found in the PCA Code of Practice for the Management of Japanese Knotweed 2018 and INNSA Code of Practice, Managing Japanese Knotweed 2017.

Please note that TFW Group Limited are not specialists in this field and the advice of an expert should be sought.

## SECTION 3 Preliminary Human Health and Environmental Risk Assessment

### 3.1 General

The preliminary human health and environmental risk assessment is a qualitative evaluation of unacceptable risks to human health or the environment from potential 'contaminated land', based on reviewed information in preceding sections of this report.

For 'contaminated land' to exist as defined in Part 2A of the Environmental Protection Act (EPA) 1990, a Pollutant Linkage needs to be identified. Pollutant linkages are defined by having a valid 'source – pathway – receptor' as established in the preliminary conceptual site model.

For our definitions of pollution linkage and how we define risk please refer to **Annex C** which includes our classifications of consequence and probability, and risk assessment matrix.

### 3.2 Potential Sources of Contamination

Potential or known sources of contamination associated the sites current and historical land use are summarised in **Table 3.1**.

**Table 3.1 Contamination Sources**

| ID | Source                             | Contaminant                                                                                                                             |
|----|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| S1 | Historical development on-site     | Toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), hydrocarbons, asbestos, sulphate, VOCs                |
| S2 | Imported contaminated made ground. | Toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), hydrocarbons, asbestos, sulphate, ground gasses, VOCs |

No other significant potential on-site or off-site sources of contamination have been identified during the desk study.

### 3.3 Potential Pollution Pathways

Potential contaminant pathways associated with a residential with home grown produce land use are as follows.

- P1 – Direct soil and dust ingestion
- P2 – Consumption of home grown produce
- P3 – Dermal contact
- P4 – Inhalation of dust and vapours
- P5 – Vertical migration of leachates (unsaturated zone)
- P6 – Horizontal and vertical migration of contaminants (saturated zone)
- P7 – Artificial contaminant pathway (borehole, pile, excavation etc)
- P8 – Surface run-off
- P9 – Plant uptake
- P10 – Horizontal and vertical migration of ground gasses and vapours
- P11 – Direct contact with construction materials
- P12 – Inhalation of asbestos fibres

### 3.4 Potential Receptors

There are human and hydrological receptors to any contamination that may be present on site. Potential receptors include.

- R1 – Construction and maintenance workers
- R2 – Future site users (residents)
- R3 – Passers-by or neighbouring site users
- R4 – Groundwater (aquifer)
- R5 – Surface waters (river/lake)
- R6 – Area of public open space
- R7 – Construction materials (concrete/potable water pipes)

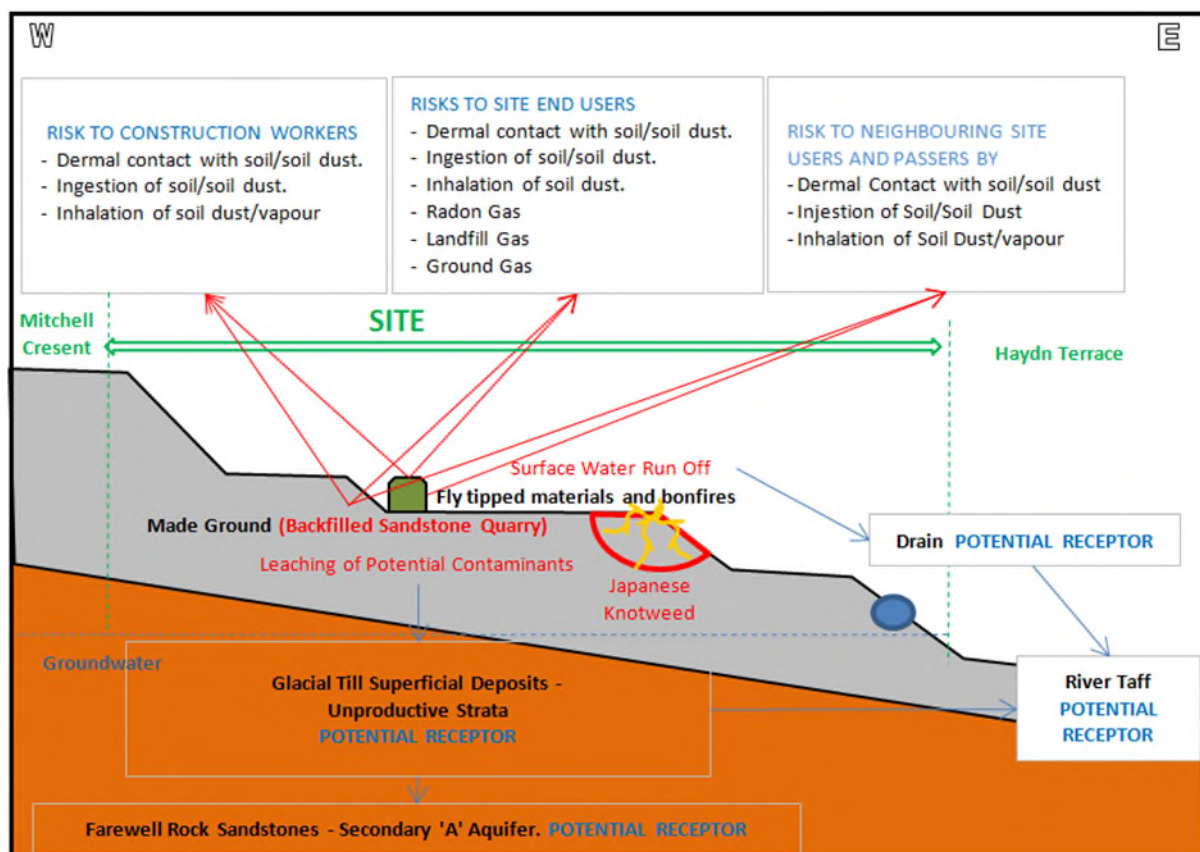
### 3.5 Preliminary Conceptual Site Model

The preliminary conceptual site model establishes potential pollutant linkages between contaminants (source), pathways and receptors, realised during the preparation of the desk study report. Where a potential pollutant linkage is identified an assessment of risk is subsequently undertaken. The preliminary conceptual site model is tabulated in **Table 3.2**.

Outcomes of the preliminary conceptual site model are used as a basis for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the wider site.

Findings of the site investigation can in turn be used to develop and refine the conceptual site model.

The preceding sections enable a preliminary conceptual model of the site to be drawn up, to illustrate the likely ground conditions beneath the site together with a preliminary assessment of the nature of any underlying aquifers and groundwater movement. The preliminary site conceptual model is used as a model for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the site as a whole. The following illustration, **Figure 3.1**, represents a theorised cross section through the site. The drawing is generalised and not to scale.



**Figure 3.1 Preliminary Conceptual Site Model**



**Table 3.2 Preliminary Conceptual Site Model**

| Source                                      | Pathway                                                                                                                          | Receptor                                                                  | Preliminary Risk Assessment |                |                                                                                                                           |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
|                                             |                                                                                                                                  |                                                                           | Consequence                 | Probability    | Risk                                                                                                                      |
| Human Health                                |                                                                                                                                  |                                                                           |                             |                |                                                                                                                           |
| Contaminated near surface soils S1, S2      | Direct soil and dust ingestion P1<br>Dermal contact P3<br>Inhalation of dust and vapours P4<br>Inhalation of asbestos fibres P12 | Construction and maintenance workers R1                                   | Medium                      | Low Likelihood | Low Risk - COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required. |
|                                             |                                                                                                                                  | Passers-by or neighbouring site users R3                                  | Medium                      | Low Likelihood | Low Risk - Dust suppression measures if required.                                                                         |
|                                             |                                                                                                                                  | Future site users (Residents) R2                                          | Medium                      | Likely         | Medium Risk – Targeted investigation of identified point sources recommended                                              |
| Volatile Organic Compounds S1, S2           | Horizontal and vertical migration of ground gasses and vapours P10                                                               | Future site users (Residents) R2, Construction and maintenance workers R1 | Severe                      | Low Likelihood | Medium Risk – Targeted investigation of identified point sources recommended                                              |
| Ground Gasses S1, S2                        |                                                                                                                                  |                                                                           |                             |                |                                                                                                                           |
| Impacted Groundwaters S1, S2                | Horizontal and vertical migration of contaminants (saturated zone) P6<br>Dermal contact P3                                       | Construction and maintenance workers R1                                   | Medium                      | Unlikely       | Low Risk – Unlikely to come into contact with groundwaters                                                                |
| Contaminated near surface soils S1, S2      | Plant uptake P9<br>Consumption of home grown produce P2                                                                          | Future site users (student, staff and allotment users) R2                 | Medium                      | Low Likelihood | Low Risk – Targeted investigation of identified point sources recommended                                                 |
| Contaminated near surface soils S1, S2      | Direct Contact P11                                                                                                               | Construction materials (water pipes) R7                                   | Mild                        | Low Likelihood | Low Risk                                                                                                                  |
| Aggressive ground conditions - Sulphates S1 |                                                                                                                                  | Construction materials (concrete) R7                                      |                             |                |                                                                                                                           |
| Aquatic Environment                         |                                                                                                                                  |                                                                           |                             |                |                                                                                                                           |
| Contaminated Soils S1                       | Vertical migration of leachates (unsaturated zone) P5                                                                            | Groundwater (aquifer) R4<br>Surface waters (river) R5                     | Mild                        | Low Likelihood | Low Risk– From on-site sources, off-site sources need not be considered further                                           |
|                                             | Surface run-off P8                                                                                                               | Surface waters (river) R5                                                 |                             |                |                                                                                                                           |
|                                             | Horizontal and vertical migration of contaminants (saturated zone) P6                                                            |                                                                           |                             |                |                                                                                                                           |

## SECTION 4 Field Investigation

### 4.1 Site Works

A geotechnical and geoenvironmental site investigation comprising six mini percussive boreholes and eight trial pits was carried on 23<sup>rd</sup> February 2015. Seven additional full scale percussive boreholes were carried out in July 2022.

An additional site investigation was conducted from 1st to 2nd May 2025 to carry out further trial pitting and infiltration testing at the proposed soakaway locations. The trial pits have been labelled TP01/2 - TP09/2. Geoenvironmental samples were collected from this area to assess potential contamination. Volatile Organic Compound (VOC) monitoring was performed on all samples to evaluate the presence of vapours across the site.

The fieldwork was supervised by TFW Group Limited, who logged the exploratory holes to the requirements of BS 5930:2015+A1:2020. The proposed locations of the exploratory holes were determined by TFW Group Limited in general accordance with BS 10175:2011+A2:2017 in order to assess the findings of the preliminary conceptual site model.

Trial pits were excavated using a JCB 3CX backhoe excavator. Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

On completion all trial pits were backfilled with materials arising compacted in layers using the excavator bucket. The ground surface was reinstated to accommodate future settlement of backfilled materials.

The trial pit logs are presented in **Annex D**.

A Dart Competitor window sampling rig was used to sink the mini percussive boreholes. Dynamic sampling techniques were employed from surface to produce a continuous disturbed sample.

Standard penetration tests (SPT) were carried out at regular intervals in general accordance with BS1377: Part 9:1990:3.3. SPT results summarised as N values are presented on the borehole log.

Boreholes were monitored for groundwater ingress as drilling proceeded.

Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

The borehole logs are presented in **Annex E**.

The fieldworks were supervised by Terra Firma who also logged the trial pits and boreholes to the requirements of BS5930.

Boreholes reference BH01 to BH03 were formed using a light cable tool (shell and auger) drilling rig. Boreholes were advanced from surface using 200mm tools and casing with the occasional use of a heavy chisel to assist boring.

Standard penetration tests (SPT) were carried out at regular intervals in general accordance with BS1377: Part 9:1990:3.3. SPT results summarised as N values are presented on the borehole log.

The borehole logs are presented in **Annex F**.

Exploratory hole locations are shown on **Drawing 01**.

## 4.2 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 4.1** to **Table 5.3**

**Table 4.1 Summary of Typical Ground Conditions within backfilled quarry (TP1, TP5 and TP8)**

| Depth (m)                  | Thickness (m) | Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.0<br>–<br>0.1/0.15       | 0.1/0.15      | <b>MADE GROUND:</b> Soft dark brown sandy <b>CLAY</b> with frequent foots and rootlets.                                                                                                                                                                                                                                                                                                                                                                          |
| 0.1/0.15<br>–<br>1.5+/6.0+ | 1.4+/5.85+    | <p><b>MADE GROUND:</b> Highly variable see specific logs for further details.</p> <p>Typically - Loose black grey ashy clayey <b>SAND</b> and <b>GRAVEL</b> with occasional fragments of glass, china, bone and metal. Locally with a strong malodour (possibly creosote).</p> <p>AND/OR</p> <p>Reworked natural ground either soft to firm brown sandy gravelly <b>CLAY</b> and/or Dense brown clayey slightly gravelly <b>COBBLES</b> and <b>BOULDERS</b>.</p> |

**Table 4.2 Summary of Typical Ground Conditions within area designated for the planned soakaway drainage (TP06/2, TP07/2, TP08/2 and TP09/2)**

| Depth (m)                   | Thickness (m) | Stratum                                                                                                                                                                                                                                                           |
|-----------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.0<br>–<br>0.25/0.40       | 0.25/0.40     | <b>MADE GROUND:</b> Grass upon (Medium dense) brown ashy gravelly <b>SAND</b> . Gravels of sub angular red, grey and yellow coarse sandstone. High content of brick and glass bottles.                                                                            |
| 0.25/0.40<br>–<br>1.5+/2.9+ | 1.1+/2.65+    | <p><b>MADE GROUND:</b> Variable see specific logs for further details.</p> <p>(Medium dense) black ashy gravelly <b>SAND</b>. Gravels are fine to coarse angular to sub angular of sandstone and clicker. High content of bottles, ceramic pottery and timber</p> |

**Table 4.3 Summary of Typical Ground Conditions on suspected edge of backfilled quarry (TP7)**

| Depth (m)               | Thickness (m) | Stratum                                                                                       |
|-------------------------|---------------|-----------------------------------------------------------------------------------------------|
| 0.0<br>–<br>0.2/0.5     | 0.2/0.5       | <b>MADE GROUND:</b> Soft dark brown sandy <b>CLAY</b> with frequent foots and rootlets.       |
| 0.2/0.5<br>–<br>0.9/1.0 | 0.4/0.8       | <b>MADE GROUND:</b> Dense brown slightly clayey gravelly <b>COBBLES</b> and <b>BOULDERS</b> . |

|                           |           |                                                                  |
|---------------------------|-----------|------------------------------------------------------------------|
| 0.9/1.0<br>-<br>1.1+/1.5+ | 0.2+/0.5+ | Medium strong <b>SANDSTONE</b> recovered as cobbles and gravels. |
|---------------------------|-----------|------------------------------------------------------------------|

**Table 4.4 Summary of Typical Ground Conditions within natural ground (TP2, TP3 and TP4)**

| Depth (m)          | Thickness (m) | Stratum                                                                                           |
|--------------------|---------------|---------------------------------------------------------------------------------------------------|
| 0.0 - 0.1/0.2      | 0.1/0.2       | Soft dark brown sandy <b>CLAY</b> with frequent roots and rootlets.                               |
| 0.1/0.2 - 0.4/0.6  | 0.3/0.4       | Soft / Soft to firm brown orange sandy gravelly <b>CLAY</b> OR Soft grey sandy <b>CLAY</b>        |
| 0.4/0.6 - 1.1/2.5+ | 0.5/2.1+      | Firm brown sandy gravelly <b>CLAY</b> with occasional cobbles and boulders                        |
| 1.1 - 2.0+         | 0.9+          | Weathered <b>SANDSTONE</b> recovered as a medium dense to dense sandy tabular GRAVEL. (TP2 only). |

The cable percussion boreholes confirm the above, and within the backfilled quarry encountered made ground to a depth of 8.0m.

### 4.3 Groundwater

No groundwater was encountered during the investigation.

### 4.4 Stability and Obstructions

During the 2022 site investigation, the trial pits remained largely stable with vertical sides. However, by 2025, signs of spalling were observed within the pits.

### 4.5 Installation Well Construction

Gas well locations were selected on a non-targeted basis to characterise the gas contamination status of the site.

Gas installation well construction details are summarised in **Table 4.5**.

**Table 4.5 Installation Well Summary**

| Location | Response Zone |        | Stratum     |
|----------|---------------|--------|-------------|
|          | From (m)      | To (m) |             |
| WS01     | 1             | 4      | MADE GROUND |
| WS02     | 1             | 5      | CLAY        |
| WS03     | 1             | 4      | CLAY        |
| BH05     | 0.8           | 7.3    | MADE GROUND |

### 4.6 Laboratory Chemical Testing

#### 4.6.1 Sampling Strategy

Soil sampling locations were selected on a non-targeted basis to characterise the contamination status of the site.

#### 4.6.2 Soil Laboratory Analysis

During the site investigation works soil samples were taken and despatched to the accredited laboratories of Eurofins Chemtest for laboratory chemical testing. Soil samples were tested for the determinants listed in **Table 4.6**.

**Table 4.6 Soil Laboratory Analysis**

| Metals & Metalloids | In-Organics | Organics               | Others       |
|---------------------|-------------|------------------------|--------------|
| Arsenic             | Cyanide     | Phenols                | pH (acidity) |
| Cadmium             | Sulphate    | PAH                    | Asbestos     |
| Chromium III        |             | Petroleum Hydrocarbons |              |
| Chromium VI         |             | VOC ,SVOC              |              |
| Copper              |             | BTEX                   |              |
| Lead                |             |                        |              |
| Mercury             |             |                        |              |
| Nickel              |             |                        |              |
| Selenium            |             |                        |              |
| Zinc                |             |                        |              |

The results are discussed in detail in **SECTION 6** and the laboratory test results certificates may be found in **Annex G**.

## 4.7 Soil Property Testing

### 4.7.1 Laboratory Geotechnical Testing

A schedule of laboratory tests was prepared by TFW Group Limited and samples were despatched to the accredited laboratories of Apex Testing Solutions. A summary of the testing carried out is presented in **Table 4.7**.

**Table 4.7 Summary of Geotechnical Testing**

| Geotechnical Test                | Standard (BS1377:1990)   | No. Tested |
|----------------------------------|--------------------------|------------|
| 4 Point Liquid and Plastic Limit | Part 2, Clause 4.3 & 5.3 | 2          |

The test results are presented in **Annex H** and discussed in **SECTION 7** of this report.

## 4.8 Falling head testing

Provisional soakaway tests were carried out in borehole location BH02 in general accordance with BRE DG 365:2016 but on a small scale. The results are presented in **Annex H**.

Soakaway test results are summarised in **Table 4.8**.

**Table 4.8 Summary of Soakaway Results**

| Borehole | Depth Range of Test (m) | Infiltration Rate (ms <sup>-1</sup> ) |
|----------|-------------------------|---------------------------------------|
| BH02     | 0.0-4.5                 | 2.91x10 <sup>-04</sup>                |

## 4.9 Delineation of the Quarry Edge

Based on the boreholes and trial pits conducted on site, an estimation of the quarry boundary can be made as seen in **Drawing 01**, and further confirmed with the boreholes undertaken in 2022. The site can be divided into two sections, A and B wherein the quarry is represented in Zone A, as seen in **Figure 4.1**.





**Figure 4.11 Site zoning**

## SECTION 5 Evaluation of Geoenvironmental Analytical Results

### 5.1 Assessment Methodology

A Tier 1 assessment of the analytical results has been made with comparison to the 2015 Suitable 4 Use Levels (S4UL) provided by Land Quality Management (LQM) Limited and the Chartered Institute of Environmental Health (CIEH) or Category 4 Screening Levels (C4SL) provided by the Department for Environment, Food and Rural Affairs (DEFRA, 2014). In lieu of S4UL or C4SL generic assessment criteria, comparison is made to published Soil Guideline Values (SGV) by the Environment Agency 2009.

### 5.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a residential setting with plant uptake are given in the following tables. The complete results can be found in **Annex F**.

#### 5.2.1 Inorganics

Eighteen samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 5.1**.

**Table 5.1 Summary of Soil Chemical Test Results – Inorganics**

| Substance                | Threshold Value (mg/kg) | Source   | Measured Concentrations (mg/kg) |         | Number of Exceedances |
|--------------------------|-------------------------|----------|---------------------------------|---------|-----------------------|
|                          |                         |          | Minimum                         | Maximum |                       |
| Arsenic                  | 37                      | LQM/CIEH | 9                               | 54      | 7                     |
| Cadmium                  | 11                      | LQM/CIEH | 0.1                             | 6.4     | 0                     |
| Chromium III             | 910                     | LQM/CIEH | 10                              | 94      | 0                     |
| Chromium VI              | 6                       | LQM/CIEH | <0.50                           | <1      | 0                     |
| Copper                   | 2400                    | LQM/CIEH | 13                              | 2800    | 1                     |
| Lead                     | 200                     | pC4SL    | 37                              | 610     | 4                     |
| Mercury (inorganic)      | 40                      | LQM/CIEH | 0.07                            | 8.7     | 0                     |
| Nickel                   | 180                     | LQM/CIEH | 8.4                             | 110     | 0                     |
| Selenium                 | 250                     | LQM/CIEH | 0.35                            | <3      | 0                     |
| Zinc                     | 3700                    | LQM/CIEH | 41                              | 820     | 0                     |
| Cyanide                  | -                       | -        | <0.50                           | 3.1     | -                     |
| Sulphate (%)             | 0.24                    | BRE      | 0.04                            | 0.3     | 0                     |
| Organic Matter (%)       | -                       | -        | 2                               | 6.7     | -                     |
| pH                       | -                       | -        | 5.5                             | 8.5     | -                     |
| Notes:                   |                         |          |                                 |         |                       |
| - No available guideline |                         |          |                                 |         |                       |

## 5.2.2 Organics

Eighteen samples were tested for speciated polycyclic aromatic hydrocarbons. The summarised results are in **Table 5.2**.

**Table 5.2 Summary of Soil Chemical Test Results – Speciated Polycyclic Aromatic Hydrocarbons**

| Substance                                                                           | Threshold Value (mg/kg) | Source   | Measured Concentrations (mg/kg) |         | Number of Exceedances |
|-------------------------------------------------------------------------------------|-------------------------|----------|---------------------------------|---------|-----------------------|
|                                                                                     |                         |          | Minimum                         | Maximum |                       |
| Naphthalene                                                                         | 5.6                     | LQM/CIEH | <0.1                            | 0.93    | 0                     |
| Acenaphthylene                                                                      | 420                     | LQM/CIEH | <0.1                            | 0.9     | 0                     |
| Acenaphthene                                                                        | 510                     | LQM/CIEH | <0.1                            | 8.5     | 0                     |
| Fluorene                                                                            | 400                     | LQM/CIEH | <0.1                            | 9.0     | 0                     |
| Phenanthrene                                                                        | 220                     | LQM/CIEH | <0.1                            | 45      | 0                     |
| Anthracene                                                                          | 5400                    | LQM/CIEH | <0.1                            | 18      | 0                     |
| Fluoranthene                                                                        | 560                     | LQM/CIEH | <0.1                            | 63      | 0                     |
| Pyrene                                                                              | 1200                    | LQM/CIEH | <0.1                            | 50      | 0                     |
| Benzo(a)anthracene                                                                  | 11                      | LQM/CIEH | <0.1                            | 43      | 3                     |
| Chrysene                                                                            | 22                      | LQM/CIEH | <0.1                            | 42      | 3                     |
| Benzo(b)fluoranthene                                                                | 3.3                     | LQM/CIEH | <0.1                            | 48      | 8                     |
| Benzo(k)fluoranthene                                                                | 93                      | LQM/CIEH | <0.1                            | 37      | 0                     |
| Benzo(a)pyrene                                                                      | 2.7                     | LQM/CIEH | <0.1                            | 21      | 6                     |
| Indeno(123cd)pyrene                                                                 | 36                      | LQM/CIEH | <0.1                            | 31      | 0                     |
| Dibenzo(ah)anthracene                                                               | 0.28                    | LQM/CIEH | <0.1                            | 21      | 12                    |
| Benzo(ghi)perylene                                                                  | 340                     | LQM/CIEH | <0.1                            | 28      | 0                     |
| Total PAH                                                                           | -                       | -        | <2.0                            | 360     | -                     |
| Notes:<br>Thresholds based on 2.5% soil organic matter<br>- No available guidelines |                         |          |                                 |         |                       |

## 5.2.3 VOCs and SVOCs

A single sample of fill from the backfilled quarry at Trial Pit TP5 at 1.0m was tested for Semi-Volatile Organic Compounds, Volatile Organic Compounds, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Speciated Petroleum Hydrocarbons. The sample was tested due to it's strong malodour identified during excavation. The results are summarised in **Table 5.3**.

**Table 5.3 2022 Summary of Soil Chemical Test Results – Noteworthy VOC & SVOC**

| Substance                                                                          | Assessment Criteria (mg/kg) | Measured Concentrations (mg/kg) | Limit of detection (mg/kg) |
|------------------------------------------------------------------------------------|-----------------------------|---------------------------------|----------------------------|
| 2-Methylnaphthalene                                                                | 240                         | 1.4                             | 0.1                        |
| Carbazole                                                                          | NG                          | 0.5                             | 0.1                        |
| Dibenzofuran                                                                       | 78                          | 0.2                             | 0.1                        |
| Notes:<br>US EPA Site Screening Level for Residential Setting<br>NG – No Guideline |                             |                                 |                            |

Ten samples were tested for Semi-Volatile Organic Compounds, Volatile Organic Compounds, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Speciated Petroleum Hydrocarbons during the 2025 investigation. The results are summarised in **Table 5.4**.

Volatile Organic Compounds, BTEX and Speciated Petroleum Hydrocarbons were not detected above the limits of laboratory detection.

The majority of Semi-Volatile Organic Compounds (SVOCs) were not detected above the limits of laboratory detection. The following SVOCs were detected:

**Table 5.4 2025 Summary of Soil Chemical Test Results – Noteworthy VOC & SVOC**

| Substance                                                                          | Assessment Criteria (mg/kg) | Measured Concentrations (mg/kg) | Limit of detection (mg/kg) |
|------------------------------------------------------------------------------------|-----------------------------|---------------------------------|----------------------------|
| Carbazole                                                                          | NG                          | 1.4                             | 0.1                        |
| Dibenzofuran                                                                       | 78                          | 2.1                             | 0.1                        |
| Notes:<br>US EPA Site Screening Level for Residential Setting<br>NG – No Guideline |                             |                                 |                            |

## 5.2.4 Asbestos Testing

All soil samples were scheduled for asbestos screening. Asbestos was not detected.

## SECTION 6 Geotechnical Testing Results

Geotechnical testing results are summarised in the following sections and presented in their entirety in **Annex H**.

### 6.1 Plasticity Testing

During the investigation two samples of the shallow clay material was taken and submitted for plasticity testing. The test results are summarised in **Table 6.1**.

**Table 6.1 Plasticity & Moisture Content Test Results**

| Location | Depth (m) | Laboratory Principal Soil Type | Plasticity Index (%) | Passing 425µm Sieve (%) | Modified Plasticity Index (%) | Volume Change Potential |
|----------|-----------|--------------------------------|----------------------|-------------------------|-------------------------------|-------------------------|
| TP03     | 1.5       | CLAY                           | 13                   | 85                      | 11.05                         | Low                     |
| TP04     | 1.5       | CLAY                           | 20                   | 81                      | 16.20                         | Low                     |

In line with the NHBC (Chapter 4.2), the modified plasticity index for each sample was calculated. For design purposes the soils on site should be assumed to have a low volume change potential.

### 6.2 Infiltration Testing

A total of four soakaway infiltration tests were undertaken across the site, carried out in TP06/2, TP07/2, TP08/2 and TP09/2 at varying depths, with the maximum test depth recorded at 2.0 metres below ground level. The predominant subsurface strata encountered comprised black ashy gravelly **SAND**.

No evidence of groundwater was observed in any of the trial pits or soakaway locations during the course of testing.

The soakaway test pits were filled with clean (potable) water and observed over a monitoring period of several hours. TP08/2 yielded negligible infiltration rates, with water levels remaining largely static throughout the observation period.

| Location | Test Depth Range (m) | Infiltration Rate                |
|----------|----------------------|----------------------------------|
| TP06/2   | 1.0-1.90             | $7.77 \times 10^{-5}$            |
| TP07/2   | 0.40-1.50            | $1.42 \times 10^{-4}$            |
| TP08/2   | 0.40-1.80            | Negligible Infiltration Occurred |
| TP09/2   | 0.25-1.55            | $1.98 \times 10^{-4}$            |

Although efficient infiltration rates were measured on site, installation within the made ground is not recommended due to the presence of contamination, which poses a risk of mobilizing pollutants such as arsenic and lead, thereby potentially impacting groundwater quality and the aquatic environment.

## SECTION 7 Ground Gas Risk Assessment

### 7.1 Gas Screening Value

Three ground gas monitoring wells were installed in WS01 to WS03. Installation details are shown on the relevant log.

Six rounds of gas monitoring have been carried out to date. The installations were tested for carbon dioxide, methane, oxygen, carbon monoxide and hydrogen sulphide using a Gas Analyser GA5000.

Recorded gas concentrations are summarised in **Table 7.1**.

**Table 7.1 Measured Gas Concentration Summary**

| Gas            | Minimum (% V/V) | Maximum (% V/V) |
|----------------|-----------------|-----------------|
| Methane        | 0               | 0.5             |
| Carbon Dioxide | 0.0             | 0.4             |
| Oxygen         | 10.4            | 21.1            |

The gas flow rate from the boreholes was also assessed, a maximum flow rate of 0.1l/hr was recorded.

Based on a flow rate of 0.1l/hr and the highest recorded carbon dioxide concentration of 0.4%, a gas screening value of 0.0004 l/hr is calculated, as follows:

$$(0.4/100) \times 0.1 = 0.0004 \text{ l/hr}$$

The results are presented in **Annex G**.

### 7.2 Volatile Gasses

During the 2022 investigation, one sample was subjected to Semi-Volatile Organic Compounds, Volatile Organic Compound testing due to its odour. Other exploratory hole locations also noted an odour during the investigation but were not subsequently tested.

Initially, volatility screening was conducted. As detailed in CIRIA C682, it is generally accepted that a compound with a Henry's Law Constant, which deals with the equilibrium established between the aqueous phase and gas phase of dilute binary solutions, less than  $10^{-3}$  (dimensionless) is considered non-volatile within the context of soil risk assessments.

A literature review quoted Henry's law constants of  $1.4 \times 10^{-4}$  and  $6.26 \times 10^{-7}$  for Dibenzofuran and Carbazole respectively, suggesting that under standard conditions these determinants are unlikely to volatilise significantly.

Ten additional samples were gathered in 2025 from trial pits TP01/2 to TP09/2 and was subjected to Semi-Volatile Organic Compounds, Volatile Organic Compound testing.

The volatile Organic Compounds, BTEX and Speciated Petroleum Hydrocarbons were not detected above the limits of laboratory detection as were the majority of Semi-Volatile Organic Compounds (SVOCs).

A PID was employed during the investigation to quantify volatile organic compounds (VOCs) emitted from the samples collected at locations TP01/2 through TP09/2.



The results are presented in **Table 7.2**.

**Table 7.2 Measured PID Concentration Summary**

| Location | Depth (M) | PID Reading (PPM) |
|----------|-----------|-------------------|
| TP01/2   | 0.5       | 46.6              |
|          | 0.8       | 42.5              |
|          | 1.35      | 73.7              |
| TP02/2   | 0.2       | 35.8              |
|          | 1.4       | 39.6              |
|          | 2.0       | 19.7              |
| TP03/2   | 0.3       | 298               |
|          | 1.0       | 256               |
|          | 1.6       | 124               |
|          | 2.3       | 98.7              |
|          | 2.7       | 99.2              |
| TP04/2   | 0.4       | 20.7              |
|          | 1.4       | 58.6              |
|          | 2.9       | 25.5              |
| TP05/2   | 0.3       | 5.2               |
|          | 1.5       | 1.1               |
|          | 1.9       | 12.6              |
| TP06/2   | 0.1       | 14.5              |
|          | 0.5       | 950               |
|          | 1.0       | 27.5              |
|          | 1.30      | 20.6              |
|          | 1.60      | 22.5              |
|          | 1.90      | 16.3              |
| TP07/2   | 0.1       | 1234              |
|          | 0.4       | 2508              |
|          | 0.5       | 1050              |
|          | 0.75      | 950               |
|          | 1.5       | 630.2             |
| TP08/2   | 0.3       | 4.9               |
|          | 1.0       | 68.2              |
|          | 1.4       | 24.5              |
| TP09/2   | 0.2       | 76                |
|          | 1.5       | 107.2             |
|          | 2.2       | 7.8               |

A VOC measurement was obtained from gas well WS01, which was the only well located from those installed in 2022. The VOC gas well readings are shown in **Table 7.3**.

**Table 7.3 Measured PID Concentration Summary**

| Date       | Location | PID Reading (PPM) |
|------------|----------|-------------------|
| 20/06/2025 | WS01     | 85.6              |
| 20/06/2025 | WS02     | 32.9              |
| 06/06/2025 | WS01     | 104.5             |
| 06/06/2025 | WS02     | 45.3              |
| 23/05/2025 | WS01     | 78.9              |
| 11/05/2025 | WS01     | 130.5             |

### 7.3 Conclusion

When this monitoring result is compared with Table 8.5 of CIRIA report C665, the site is classified as 'Gas Characteristic Situation 1' (CS1). However, elevated VOC concentrations were recorded at various locations across the site. As a precautionary measure, appropriate vapor protection measures should be incorporated into the design and construction of any future developments to mitigate potential risks associated with vapour migration.

## SECTION 8 Quantitative Risk Assessment

### 8.1 Contaminants of Concern

Exceedances of arsenic were detected within 7 of 18 samples from both fill within the backfilled quarry and topsoil outside of the backfilled quarry.

Within the backfilled quarry exceedances of the residential guideline for Arsenic of 32mg/kg were detected within samples from TP1 at 1.0m, TP5 at 1.0m, TP8 at 1.5m, TP06/2 at 1.7m, TP07/2 at 1.4m, with a maximum concentration detected at WS3 at 1.0m at 54mg/kg.

The concentration of arsenic within topsoil at TP2 at 0.1m located outside the backfilled quarry at 33mg/kg narrowly exceeded the residential guideline for arsenic.

Single exceedances of copper and lead were detected within the fill of the backfilled quarry. A concentration of Copper at within a sample at TP8 at 1.5m. A concentration of lead exceeded the residential guideline within a sample at TP1 at 1.0m.

Single exceedances of Benzo(a)Anthracene (at 43mg/kg), Chrysene (at 42mg/kg), Benzo(b)fluoranthene (at 48mg/kg), Benzo(k)fluoranthene (at 37mg/kg), Dibenzo(ah)Anthracene (at 21mg/kg) and Indeno(123cd)pyrene (at 31mg/kg) were detected above residential guidelines within ashy fill of the backfilled quarry at WS1 at 0.5m. Exceedances of Benzo(a)Pyrene were also detected at WS1 at 0.5m (at 30mg/kg) and also at TP5 at 1.0m (at 2.3mg/kg) both within the ashy fill of the backfilled quarry. PAHs appear to be a contaminant of concern within the ashy fill within the backfilled quarry.

A sample of fill from the backfilled quarry at Trial Pit TP5 at 1.0m detected minor levels of SVOCs including 2-Methylnaphthalene at 1.4mg/kg, Carbazole at 0.5mg/kg and Dibenzofuran at 0.2mg/kg. Both 2-Methylnaphthalene and Dibenzofuran are below US guidelines. These contaminants are commonly found together within coal tar and creosote. It is considered likely that coal tar and creosote has been buried within the backfilled quarry.

Except for the contaminants identified above all measured concentrations of metals and inorganic substances tested were within acceptable limits. Additional hot spots of contamination are anticipated in isolated areas of fly tipping and bonfires.

### 8.2 Pollutant Linkages

Based on the findings of the intrusive site investigation and identified contaminants, the preliminary conceptual site model has been revised. Significant pollutant linkages are tabulated in the refined conceptual site model **Table 8.1**. Identified pollutant linkages will require detailed risk assessment, appropriate mitigation or remedial measures.

**Table 8.1 Refined Conceptual Site Model**

| Source                                                | Pathway                                                                                                                          | Receptor                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Contaminated near surface made ground soils (S1 & S2) | Direct soil and dust ingestion P1<br>Dermal contact P3<br>Inhalation of dust and vapours P4<br>Inhalation of asbestos fibres P12 | Construction and maintenance workers R1<br>Passers-by or neighbouring site users R3<br>Future site users (Residents) R2 |

|                                                       |                                                                                             |                                                                              |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Volatile gasses S1, S2                                | Horizontal and vertical migration of ground gasses and vapours P10                          | Future site users (Residents) R2,<br>Construction and maintenance workers R1 |
| Contaminated near surface made ground soils (S1 & S2) | Plant uptake P9<br>Consumption of home grown produce P2                                     | Future site users (Residents) R2                                             |
| Contaminated near surface soils S1, S2                | Direct Contact P11                                                                          | Construction materials (water pipes) R7                                      |
| Contaminated near surface soils S1                    | Vertical migration of leachates (unsaturated zone) P5                                       | Groundwater (aquifer) R4<br>Surface waters (river) R5                        |
|                                                       | Surface run-off P8<br>Horizontal and vertical migration of contaminants (saturated zone) P6 | Surface waters (river) R5                                                    |

### 8.3 Refined Illustrative Conceptual Site Model

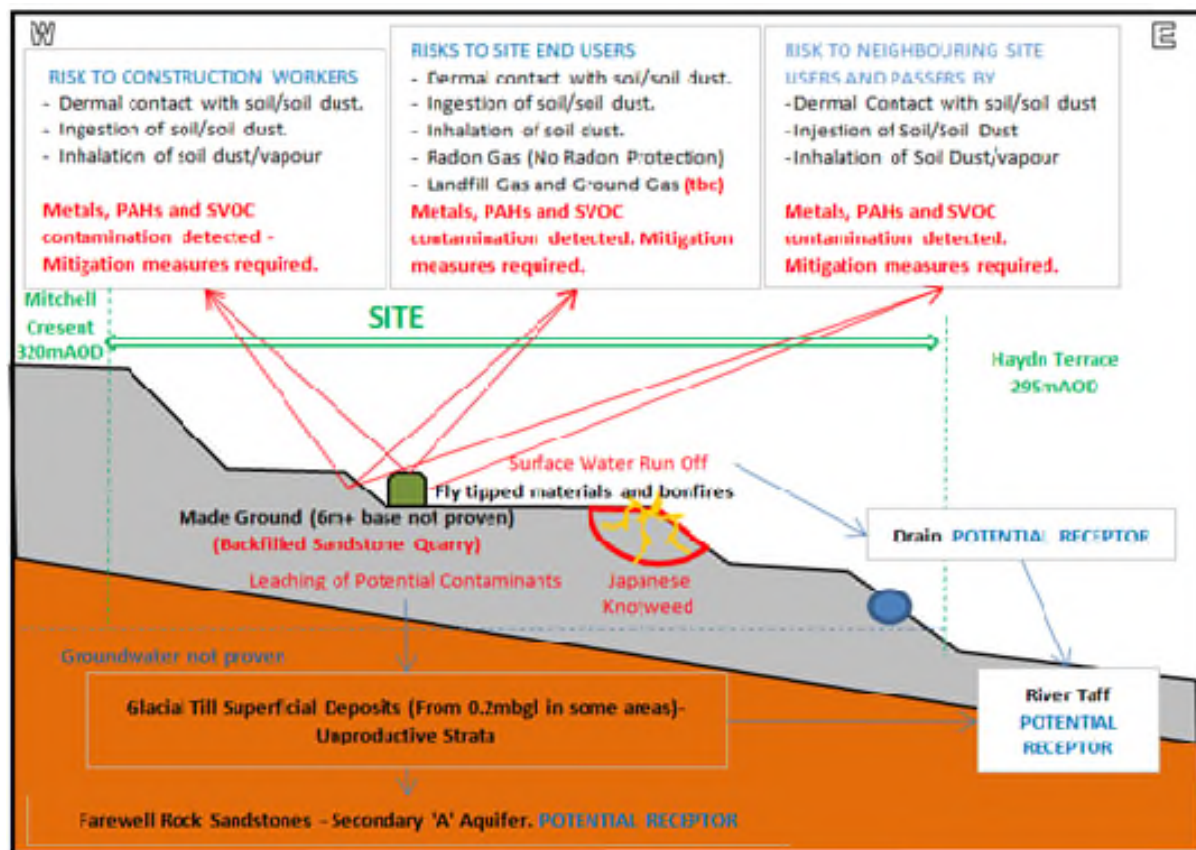


Figure 8.1 Refined Illustrative Conceptual Site Model

### 8.4 Mitigation and Remedial Measures

The following sections summarise the likely mitigation and remedial measures suitable for the identified contamination and proposed development. Detailed methodology to achieve the measures should be prescribed in a Remediation Strategy Report and the results presented in a Validation Report upon completion of the development.

#### 8.4.1 Human Health

##### 8.4.1.1 Contaminated Soils

To protect future site users from the identified contamination a cover system will be required. The cover system will be required across the whole site.

The cover system must consist of the proposed buildings and hard standings. In garden and soft landscaped areas, the system must consist of 600mm of a combination of chemically suitable topsoil, and subsoil. The imported soils must also be physically suitable as defined in BS8332:2015 and BS8601:2013, the specifications for topsoil and subsoil respectively. The soils must contain no 'sharps' and be free of construction debris.

Typically between 100mm and 300mm of topsoil is utilised with the remaining thickness provided by the subsoil for a total thickness of 600mm. The cover system must be designed to account for factors which could impact its effectiveness and may need to include capillary break or drainage layers. This must be detailed in the remediation strategy.

Due to the concentration of contamination in the soils, a double no dig barrier will be required. The double no dig barrier must comprise a geotextile to prevent soil mixing under a more robust geogrid to prevent penetration with a spade.

The imported soils will require chemical analysis to determine they are suitable for their intended use. The thickness of capping soil will require validation once placed in gardens/soft landscaped areas. Sufficient time should be allowed in the construction program to prevent delays.

With respect to volatile organic compounds encountered at the site, volatile gas protection elements should be selected based on guidelines presented in CIRIA C748:2014. In addition, NHBC guidance may also need to be adopted depending on the requirements of the proposed development guarantor. Volatile gas protection elements will need to be designed by an accredited consultant and installed by qualified professionals. Furthermore the installed protection measures will need to be fully verified in accordance with CIRIA C735.

As good practice, construction workers should adhere to good site management, COSHH, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate.

All imported soils should be validated as clean and suitable for use in accordance with 'Requirements for the Chemical Testing of Imported Soils for Various End Uses and Validation Cover Systems'.

For proposed new supply water pipes, the UK Water Industry Research publication 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites (Report 10/WM/03/21)' should be consulted.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties.

If during earthworks ground conditions are encountered that are markedly different to those found during the investigation then the ground should be subject to additional sampling and testing and any necessary remedial measures designed and implemented before continuing with the works.

#### **8.4.2 Aquatic Environment**

A quantitative groundwater risk assessment has not been undertaken. Given that the broader area surrounding site is expected to contain similar filled ground we would not expect the made ground from the site to impact negatively on the wider area. The level of groundwater is likely to vary seasonally and a deeper groundwater table can be expected with the bedrock.

Contamination identified on site is primarily characterized by significant exceedances of polycyclic aromatic hydrocarbons (PAHs). These compounds exhibit low mobility, thereby presenting minimal risk to underlying groundwater resources.

Although efficient infiltration rates were measured on site, installation within the made ground is not recommended due to the presence of contamination, which poses a risk of mobilizing pollutants such as arsenic and lead, thereby potentially impacting groundwater quality and the aquatic environment.

During the construction period, there is a risk to the environment/adjacent sites from dewatering, digging foundations, moving contaminated soil, drainage misconnections, discharges to local surface waters or the ground, runoff from construction materials and/or exposed ground, wheel washings and oil or chemical spills.

The risk is considered to be negligible as any adverse effects will be easily preventable by due diligence to good construction practise and housekeeping in preventing surface runoff and the spillage of materials.

The basic measures that should be taken are as follows:

- Prepare a drainage plan and mark the manholes to prevent pollutants accidentally reaching the surface water sewers;
- Carry out any activities that could cause pollution in a designated, bunded area, away from rivers or boreholes. Where possible it should drain to the foul sewer;
- Use settlement ponds to remove silty water;
- Store all oils and chemicals in a fully bunded area to prevent leaks or spills;
- Get advice on whether you need an environmental permit and apply in good time

## SECTION 9 Engineering Recommendations

### 9.1 Preparation of Site

The Japanese Knotweed encountered in the south of the site should be treated/removed by a specialist Knotweed Contractor prior to engaging in any site works.

Following the successful treatment of the Japanese Knotweed, areas of vegetation including all roots should be stripped and removed from beneath the proposed development site.

Allowances should be made for any temporary/permanent support works to any existing adjacent structure necessary as a result of the proposed works.

Contingencies should be made for the protection/diversion of any underground/overhead services present beneath/above the site brought about as a result of the proposed works.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department of Transport (DTp) type 2 sub-base or similar should be used and compacted in layers to the requirements of the Specification for Highway Works.

Allowances should also be made for the excavation of any soft spots/areas and their replacement with well compacted imported granular materials.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties. TFW Group Limited offer this service if required.

### 9.2 Foundation and Floor Slab Solution

The ground conditions vary across the site. The site has specific foundation recommendations for areas affected by the backfilled sandstone quarry.

#### ZONE A - Backfilled Sandstone Quarry

Due to both the thickness and nature of the underlying made ground it is likely that a traditional foundation solution will prove unacceptable. It is considered that a piled foundation solution would be suitable for the backfilled sandstone quarry area. The deepest cable percussion boreholes have indicated rock to lie at 10mbgl. However, some warranty providers may require at least 5m of bedrock be proved, which was untenable with the drilling means on site. Due to the steep nature of the infilled quarry sides there is a possibility of piles sliding down the quarry sides before finding a set. It is therefore recommended that a steel bored pile solution is used. For a 200mm diameter steel pile socketed within the underlying bedrock a safe working load of typically 350kN could be achieved. An allowance should be made for negative skin friction that could develop in the fill below the site. Allowances should also be made for re-installing piles should buried obstructions and boulders be encountered within the tipped material.

During the piling operations a rigorous check should be kept on vibrations. Should vibrations exceed permissible levels then measures should be taken to reduce levels to acceptable levels or consideration should also be given to a bored pile solution.

#### ZONE B - Remainder of Site

For areas outside of the backfilled quarry a shallow foundation solution may be viable.

It is considered that a combination of reinforced concrete strip and trench fill (with reinforced concrete edge beam) foundations founded within the firm clays, medium dense granular deposits or sandstone bedrock would be an appropriate alternative foundation solution. The use of reinforcing in the foundations is to cater for the likely differential settlements that may



arise for the buildings being founded on the two different strata. Suspended floor slabs are recommended.

Should any of the buildings be founded in one strata only then the reinforcing can be omitted from the foundations.

An allowable bearing pressure of 100kN/m<sup>2</sup> may be used for design purposes within firm clay/medium dense granular deposits.

For any foundations founded wholly within the rock the reinforcement may be omitted and the allowable bearing pressure increased to 200kN/m<sup>2</sup>.

For the given foundation solutions and bearing pressures, maximum total settlements of <25mm should result with differential movements of the superstructure not exceeding 1:750.

In order to protect the formations from the effect of frost heave and/or thermal shrinkage foundations should be a minimum depth below the finished ground level of 750mm. Alternatively, the non-frost susceptible materials should extend down to the quoted depth. In rock 0.45m minimum foundations are required. Foundations must sit at least 0.2m within the founding horizon. Foundations should be taken to a depth below the influence of drains and/or surrounding trees.

All foundation formations should be inspected by a suitably qualified Engineer before being concreted. Allowances should be made for the removal of any 'soft spots' and obstructions and their replacement with well-compacted granular materials.

### **9.3 Excavations and Formations**

Most of the shallow excavations will be possible with normal soil excavating machinery.

Shallow perched water and groundwater flows were not encountered during the investigation. Any water inflows together with rainwater infiltration should be dealt with by conventional pumping techniques. However, it should be noted that during times of heavy rainfall a higher water table will be encountered.

The sides of any excavations deeper than 1.20m, or shallower if unstable, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations are likely to be susceptible to loosening, softening and deterioration by exposure to weather (rain, frost and drying conditions), the action of water (flood water or removal of groundwater) and site traffic.

Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

As a minimum the formation/excavation surfaces must be protected by blinding concrete immediately after exposure.

Allowances should be made for the removal of soft spots/areas and their replacement with well compacted granular materials.

Allowances should also be made for special precautions to prevent formation deterioration in addition to the above.

## 9.4 Protection of Buried Concrete

When the results are compared with Table C2 of BRE Digest 1:2005, it indicates that buried concrete should generally conform to Class AC-2.

## 9.5 Retaining Walls

Due to the sloping nature of the site, retaining walls may be required. The existing steepness of any embankments should not be increased. Any cuts should be undertaken in small sections and in such a way so as not to induce any instability to the ground.

The site slope falls steeply to the east. Development of the site is likely to be split level and retaining structures will be required. It is considered that cut slopes and raised slopes have the potential to increase the risk of slope instability.

The effective angles of shearing resistance of the materials likely to be encountered have been determined based upon past experience of the materials and are presented in **Table 7.1** below:

Effective shear parameters for retaining wall design are presented in **Table 9.1**.

**Table 9.1 Effective Shear Stress Parameters**

| Stratum Description                                                                                                                                                                          | Bulk Unit Weight ( $\gamma$ )<br>kN/m <sup>3</sup> | Effective Cohesion ( $c'$ ) kN/m <sup>2</sup> | Effective Angle of Shearing Resistance ( $\phi'$ ) degrees |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|------------------------------------------------------------|
| Medium dense sand/gravel                                                                                                                                                                     | 19                                                 | 0                                             | 35                                                         |
| Soft in-situ clay                                                                                                                                                                            | 19                                                 | 0                                             | 25-28                                                      |
| Firm to stiff in-situ clay                                                                                                                                                                   | 19                                                 | 0                                             | 30                                                         |
| Well compacted, suitable materials, compacted as per Specification for Highway Works and other relevant guidance such as British Standards (BS) 6031: 2009. Code of Practice for Earthworks. | 20                                                 | 0                                             | 37                                                         |
| Sandstone Bedrock                                                                                                                                                                            | 20                                                 | 10                                            | 60                                                         |

The parameters are based on experience in similar ground conditions.

The materials to be in-filled behind the retaining wall should be placed at or close to its optimum moisture content/maximum dry density and compacted in layers as per the requirements of the Specification for Highway Works. During the earthworks suitable in-situ testing should be carried out to ensure that the compaction process is achieving the required maximum dry density to achieve at least 95% compaction.

The acceptability of the filling works should be verified by appropriate on site testing. A certification report should also be prepared on the earthworks by a suitably qualified Geotechnical Engineer.

Appropriate drainage should be incorporated in the design to prevent the build-up of hydrostatic pressure.

Appropriate cutting and benching of the existing slope should be conducted prior to the replacement of any imported fill to minimise the risk of any slip surfaces forming on the interface between the existing imported materials.

**ANNEX A  
Envirocheck Report**

# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

64329490\_1\_1

**Customer Reference:**

13082/TW

**National Grid Reference:**

305770, 208020

**Slice:**

A

**Site Area (Ha):**

2.2

**Search Buffer (m):**

1000

### Site Details:

Haydn Terrace  
Merthyr Tydfil  
CF47 9YJ

### Client Details:

Mr T Walby  
Terra Firma (Wales) Ltd  
5 Deryn Court  
Wharfdale Road  
Pentwyn  
Cardiff  
CF23 7HB

| Report Section        | Page Number |
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| Waste                 | 11          |
| Hazardous Substances  | -           |
| Geological            | 14          |
| Industrial Land Use   | 27          |
| Sensitive Land Use    | -           |
| Data Currency         | 39          |
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| Useful Contacts       | 45          |

## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v49.0

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                                |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                                |
| Discharge Consents                                            | pg 1        |         | 2         | 7           | 11                             |
| Enforcement and Prohibition Notices                           |             |         |           |             |                                |
| Integrated Pollution Controls                                 |             |         |           |             |                                |
| Integrated Pollution Prevention And Control                   | pg 6        |         |           |             | 3                              |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                                |
| Local Authority Pollution Prevention and Controls             | pg 6        |         |           | 1           | 5                              |
| Local Authority Pollution Prevention and Control Enforcements | pg 7        |         |           |             | 1                              |
| Nearest Surface Water Feature                                 | pg 7        | Yes     |           |             |                                |
| Pollution Incidents to Controlled Waters                      | pg 7        |         |           |             | 1                              |
| Prosecutions Relating to Authorised Processes                 | pg 7        |         |           |             | 1                              |
| Prosecutions Relating to Controlled Waters                    |             |         |           |             |                                |
| Registered Radioactive Substances                             |             |         |           |             |                                |
| River Quality                                                 | pg 7        |         |           |             | 1                              |
| River Quality Biology Sampling Points                         |             |         |           |             |                                |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                                |
| Substantiated Pollution Incident Register                     | pg 8        |         |           | 1           | 5                              |
| Water Abstractions                                            | pg 8        |         |           |             | (*1)                           |
| Water Industry Act Referrals                                  |             |         |           |             |                                |
| Groundwater Vulnerability                                     | pg 8        | Yes     | n/a       | n/a         | n/a                            |
| Bedrock Aquifer Designations                                  | pg 9        | Yes     | n/a       | n/a         | n/a                            |
| Superficial Aquifer Designations                              | pg 9        | Yes     | n/a       | n/a         | n/a                            |
| Source Protection Zones                                       |             |         |           |             |                                |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                            |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                            |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                            |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                            |
| Flood Defences                                                |             |         |           | n/a         | n/a                            |
| Detailed River Network Lines                                  | pg 9        |         |           | Yes         | n/a                            |
| Detailed River Network Offline Drainage                       | pg 9        | Yes     | Yes       | Yes         | n/a                            |



| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                                |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                                |
| Historical Landfill Sites                                           | pg 11       |         |           | 1           | 1                              |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                                |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                                |
| Licensed Waste Management Facilities (Locations)                    | pg 11       |         |           | 2           | 1                              |
| Local Authority Recorded Landfill Sites                             | pg 12       |         |           |             | 2                              |
| Registered Landfill Sites                                           |             |         |           |             |                                |
| Registered Waste Transfer Sites                                     | pg 12       |         |           | 2           |                                |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                                |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                                |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                                |
| Explosive Sites                                                     |             |         |           |             |                                |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                                |
| Planning Hazardous Substance Consents                               |             |         |           |             |                                |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                                |
| <b>Geological</b>                                                   |             |         |           |             |                                |
| BGS 1:625,000 Solid Geology                                         | pg 14       | Yes     | n/a       | n/a         | n/a                            |
| BGS Estimated Soil Chemistry                                        | pg 14       | Yes     | Yes       | Yes         | Yes                            |
| BGS Recorded Mineral Sites                                          | pg 24       |         | 1         |             | 7                              |
| BGS Urban Soil Chemistry                                            |             |         |           |             |                                |
| BGS Urban Soil Chemistry Averages                                   |             |         |           |             |                                |
| Brine Compensation Area                                             |             |         | n/a       | n/a         | n/a                            |
| Coal Mining Affected Areas                                          | pg 25       | Yes     | n/a       | n/a         | n/a                            |
| Mining Instability                                                  | pg 26       | Yes     | n/a       | n/a         | n/a                            |
| Man-Made Mining Cavities                                            |             |         |           |             |                                |
| Natural Cavities                                                    | pg 26       |         |           |             | 1                              |
| Non Coal Mining Areas of Great Britain                              | pg 26       | Yes     | Yes       | n/a         | n/a                            |
| Potential for Collapsible Ground Stability Hazards                  | pg 26       | Yes     |           | n/a         | n/a                            |
| Potential for Compressible Ground Stability Hazards                 | pg 26       |         | Yes       | n/a         | n/a                            |
| Potential for Ground Dissolution Stability Hazards                  |             |         |           | n/a         | n/a                            |
| Potential for Landslide Ground Stability Hazards                    | pg 26       | Yes     |           | n/a         | n/a                            |
| Potential for Running Sand Ground Stability Hazards                 | pg 26       | Yes     |           | n/a         | n/a                            |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 26       | Yes     |           | n/a         | n/a                            |
| Radon Potential - Radon Affected Areas                              |             |         | n/a       | n/a         | n/a                            |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                            |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                                |
| Contemporary Trade Directory Entries | pg 27       |         | 4         | 27          | 93                             |
| Fuel Station Entries                 | pg 38       |         |           | 2           | 1                              |
| <b>Sensitive Land Use</b>            |             |         |           |             |                                |
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| Areas of Outstanding Natural Beauty  |             |         |           |             |                                |
| Environmentally Sensitive Areas      |             |         |           |             |                                |
| Forest Parks                         |             |         |           |             |                                |
| Local Nature Reserves                |             |         |           |             |                                |
| Marine Nature Reserves               |             |         |           |             |                                |
| National Nature Reserves             |             |         |           |             |                                |
| National Parks                       |             |         |           |             |                                |
| Nitrate Sensitive Areas              |             |         |           |             |                                |
| Nitrate Vulnerable Zones             |             |         |           |             |                                |
| Ramsar Sites                         |             |         |           |             |                                |
| Sites of Special Scientific Interest |             |         |           |             |                                |
| Special Areas of Conservation        |             |         |           |             |                                |
| Special Protection Areas             |             |         |           |             |                                |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 1      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Gellifaelog School Rocky, Rocky Road<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE1006601<br>Permit Version: 1<br>Effective Date: 28th October 1955<br>Issued Date: 28th October 1955<br>Revocation Date: 7th December 2001<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                                                       | A13NE (E)                              | 247                          | 2       | 306080 208100 |
| 1      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Gellifaelog School Rocky, Rocky Road<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE1006602<br>Permit Version: 1<br>Effective Date: 28th October 1955<br>Issued Date: 28th October 1955<br>Revocation Date: 2nd February 1999<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m                       | A13NE (E)                              | 247                          | 2       | 306080 208100 |
| 2      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Cwm Rhyd-Y-Bedd Balaclava, Balaclava Road<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE2025301<br>Permit Version: 1<br>Effective Date: 15th April 1964<br>Issued Date: 15th April 1964<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 10m                                   | A13NE (NE)                             | 251                          | 2       | 306067 208173 |
| 3      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Cso Gellifaelog School Rocky Road, Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Ae1006601<br>Permit Version: 2<br>Effective Date: 8th December 2001<br>Issued Date: 7th December 2001<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | A14NW (E)                              | 268                          | 2       | 306100 208110 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 4      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Brewers Arms Sso Dowlais Merthyr T, Dowlais Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: Not Supplied<br>Reference: An0230601<br>Permit Version: 2<br>Effective Date: 31st March 2002<br>Issued Date: 15th March 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status:</b> Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)<br>Positional Accuracy: Located by supplier to within 10m | A14SW (SE)                             | 280                          | 2       | 306110 207830 |
| 4      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Brewers Arms Sso Dowlais Merthyr T, Dowlais Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: Not Given<br>Reference: AN0230601<br>Permit Version: 1<br>Effective Date: 28th November 1991<br>Issued Date: 28th November 1991<br>Revocation Date: 30th March 2002<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status:</b> New Consent, by Application (Water Resources Act 1991, Section 88)<br>Positional Accuracy: Located by supplier to within 100m                          | A14SW (SE)                             | 280                          | 2       | 306110 207830 |
| 5      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Bont (Rear Horse And<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE2025302<br>Permit Version: 1<br>Effective Date: 15th April 1964<br>Issued Date: 15th April 1964<br>Revocation Date: 8th March 2002<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status:</b> New Consent, by Application (Water Resources Act 1991, Section 88)<br>Positional Accuracy: Located by supplier to within 100m                                                                                     | A8NE (SE)                              | 323                          | 2       | 306070 207670 |
| 5      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: The Bont Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Ae2025302<br>Permit Version: 2<br>Effective Date: 9th March 2002<br>Issued Date: 8th March 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status:</b> Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)<br>Positional Accuracy: Located by supplier to within 10m                                        | A9NW (SE)                              | 353                          | 2       | 306110 207670 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 6      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Dowlais - Junction New Road/Ba<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE2025304<br>Permit Version: 1<br>Effective Date: 15th April 1964<br>Issued Date: 15th April 1964<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                                     | A14SW (E)                              | 351                          | 2       | 306190 207910 |
| 7      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Cso Goitre Lane Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Ae2025303<br>Permit Version: 2<br>Effective Date: 11th December 2001<br>Issued Date: 10th December 2001<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Goitre Brook<br><b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | A12SE (W)                              | 504                          | 2       | 305200 207820 |
| 7      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Water Supply Grid<br>Location: Penybryn<br>Authority: Natural Resources Wales<br>Catchment Area: Not Supplied<br>Reference: Am0008401<br>Permit Version: 1<br>Effective Date: 2nd October 1989<br>Issued Date: 2nd October 1989<br>Revocation Date: 14th March 1994<br>Discharge Type: Unspecified<br>Discharge: Land/Soakaway<br>Environment:<br>Receiving Water: Soakaway<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                                                       | A12SE (W)                              | 512                          | 2       | 305200 207800 |
| 8      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Goitre Lane<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE2025303<br>Permit Version: 1<br>Effective Date: 15th April 1964<br>Issued Date: 15th April 1964<br>Revocation Date: 10th December 2001<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Goitre Stream<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                                                                 | A12SE (W)                              | 519                          | 2       | 305150 208000 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 9      | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Trade (Unknown/Other)<br>Location: Penybryn Depot Merthyr Tydfil, Merthyr Tydfil Ua, Wales<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AN0216701<br>Permit Version: 1<br>Effective Date: 30th April 1990<br>Issued Date: 30th April 1990<br>Revocation Date: Not Supplied<br>Discharge Type: Trade Effluent<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Tributary Of Nanr Morlais<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m | A7NE (SW)                              | 617                          | 2       | 305300 207500 |
| 10     | <b>Discharge Consents</b><br>Operator: Croda Ltd<br>Property Type: Undefined Or Other<br>Location: Merthyr Tydfil - Croda Ltd<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Af4024301<br>Permit Version: 1<br>Effective Date: 1st September 1977<br>Issued Date: 1st September 1977<br>Revocation Date: 26th January 1994<br>Discharge Type: Trade Effluent<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Nant Morlais Brook<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                            | A9SW (SE)                              | 712                          | 2       | 306160 207260 |
| 11     | <b>Discharge Consents</b><br>Operator: British Coal Opencast<br>Property Type: Undefined Or Other<br>Location: Merthyr Tydfil - Incline Top O<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: An0138201<br>Permit Version: 1<br>Effective Date: 15th June 1989<br>Issued Date: 15th June 1989<br>Revocation Date: 14th April 1994<br>Discharge Type: Trade Effluent<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Nant Morlais<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                           | A8SW (S)                               | 807                          | 2       | 305700 207100 |
| 12     | <b>Discharge Consents</b><br>Operator: Celtic Energy Ltd<br>Property Type: Coal Extraction, Surface<br>Location: Great White Tip Site<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: An0238602<br>Permit Version: 1<br>Effective Date: 10th November 1992<br>Issued Date: 10th November 1992<br>Revocation Date: 1st November 1996<br>Discharge Type: Trade Effluent<br>Discharge: Into And/Or Watercourse<br>Environment:<br>Receiving Water: Culvert And Hence To River Taf<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                       | A9SW (SE)                              | 817                          | 2       | 306171 207149 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 13     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Cso Waterloo House Merthyr Tydfil, Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Ae2025305<br>Permit Version: 2<br>Effective Date: 31st March 2002<br>Issued Date: 21st December 2001<br>Revocation Date: 16th July 2002<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | A8SW (S)                               | 887                          | 2       | 305600 207040 |
| 13     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: Merthyr - Waterloo House<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: AE2025305<br>Permit Version: 1<br>Effective Date: 15th April 1964<br>Issued Date: 15th April 1964<br>Revocation Date: 30th March 2002<br>Discharge Type: Unspecified<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                    | A8SW (S)                               | 900                          | 2       | 305590 207030 |
| 13     | <b>Discharge Consents</b><br>Operator: Dwr Cymru Cyfyngedig<br>Property Type: Sewerage Network - Sewers - Water Company<br>Location: A Cso At Waterloo House Merthyr, Merthyr Tydfil<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: Ae2025305<br>Permit Version: 3<br>Effective Date: 17th July 2002<br>Issued Date: 16th July 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Morlais Brook<br><b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m                         | A3NW (S)                               | 925                          | 2       | 305570 207010 |
| 14     | <b>Discharge Consents</b><br>Operator: Celtic Energy Ltd<br>Property Type: Coal Extraction, Surface<br>Location: Great White Tip Site<br>Authority: Natural Resources Wales<br>Catchment Area: River Taff<br>Reference: An0238601<br>Permit Version: 1<br>Effective Date: 10th November 1992<br>Issued Date: 10th November 1992<br>Revocation Date: 1st November 1996<br>Discharge Type: Trade Effluent<br>Discharge: Into And/Or Watercourse<br>Environment:<br>Receiving Water: Culvert And Hence To River Taf<br><b>Status: Consent expired</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                                                                   | A8SE (S)                               | 888                          | 2       | 306076 207040 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Merthyr Electro-Plating Co Ltd<br>Location: Merthyr Electroplating Co, Pant Industrial Estate, Dowlais,, Merthyr Tydfil, South Wales, CF48 2SR<br>Authority: Natural Resources Wales<br>Permit Reference: MP3436GJ<br>Original Permit Ref: Bv5394il<br>Effective Date: 5th May 2009<br><b>Status: Surrender Effective</b><br>Application Type: Surrender<br>App. Sub Type: Whole<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 2.3 A(1) (A)<br>Activity Description: Surface Treating Metals And Plastics; Electrolytic/Chemical Greater Than 30 Cubic Metres<br>Primary Activity: Y               | A18NE (N)                              | 611                          | 2       | 305973 208731 |
| 15     | <b>Integrated Pollution Prevention And Control</b><br>Name: Merthyr Electro-Plating Co Ltd<br>Location: Methyr Electro-Plating Co Ltd, Pant Industrial Estate, Dowlais, MERTHYR TYDFIL, Mid Glamorgan, CF48 2SR<br>Authority: Natural Resources Wales<br>Permit Reference: Bv5394il<br>Original Permit Ref: Bv5394il<br>Effective Date: 25th January 2005<br><b>Status: Superseded By Variation</b><br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Automatically positioned to the address<br>Activity Code: 2.3 A(1) (A)<br>Activity Description: Surface Treating Metals And Plastics; Electrolytic/Chemical Greater Than 30 Cubic Metres<br>Primary Activity: Y | A18NE (N)                              | 611                          | 2       | 305973 208731 |
| 16     | <b>Integrated Pollution Prevention And Control</b><br>Name: Indigo Waste Solutions<br>Location: Merthyr Tydfil Clinical Waste Treatment Facility, Mill Court,Unit 1, Goat Mill Road,,, MERTHYR TYDFIL, Mid Glamorgan, CF47 0AH<br>Authority: Environment Agency, Welsh Region<br>Permit Reference: Xp3937st<br>Original Permit Ref: Xp3937st<br>Effective Date: Not Supplied<br><b>Status: Valid</b><br>Application Type: Application<br>App. Sub Type: New<br>Positional Accuracy: Manually positioned to the address or location<br>Activity Code: 5.3 A(1) (A)<br>Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D<br>Primary Activity: Y                         | A9SW (SE)                              | 708                          | 3       | 306178 207274 |
| 17     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Dowlais Service Station<br>Location: New Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3DA<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: PPC/PG1.14/02/10<br>Dated: 1st March 1999<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG1/14 Petrol filling station<br><b>Status: Permitted</b><br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                  | A9NW (SE)                              | 467                          | 4       | 306134 207534 |
| 18     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Stephens & George Ltd<br>Location: Goat Mill Road, Dowlais, CF48 3TD<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: PPC/PG6.4/10/10<br>Dated: 8th December 2010<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG6/16 Printworks<br><b>Status: Permitted</b><br>Positional Accuracy: Manually positioned to the address or location                                                                                                                                                                                                | A9SW (SE)                              | 700                          | 4       | 306272 207346 |
| 19     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Pant (Dowlais) Animal Feed<br>Location: Merthyr Tydfil Industrial Estate, Dowlais, MERTHYR TYDFIL, Mid Glamorgan, CF48 2SR<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: PG 6/26(96)1<br>Dated: 31st May 1996<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/26 Animal feed compounding<br><b>Status: Authorisation revokedRevoked</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                         | A19NW (NE)                             | 742                          | 4       | 306183 208771 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 20     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Texaco LtdStar<br>Location: High Street, Penydaren, Merthyr Tydfil, Mid Glamorgan, CF47 9HA<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: PG 1/14(96)-4<br>Dated: 1st March 1999<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG1/14 Petrol filling station<br><b>Status: Authorisation revokedRevoked</b><br>Positional Accuracy: Automatically positioned to the address | A8SW (S)                               | 882                          | 4       | 305574 207054 |
| 20     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Shell Service Stations<br>Location: High Street, Penydaren, MERTHYR TYDFIL, Mid Glamorgan, CF47 9HA<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: Pg 1/14[96]-5<br>Dated: 1st March 1999<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br><b>Status: Authorised</b><br>Positional Accuracy: Automatically positioned to the address                      | A8SW (S)                               | 882                          | 4       | 305574 207054 |
| 21     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: The Luc Group<br>Location: Unit 6 Goat Mill Road, Dowlais<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br>Permit Reference: PPC/PG6.29/01<br>Dated: 24th March 2011<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG6/29 Di-isocyanate processes<br><b>Status: Permitted</b><br>Positional Accuracy: Manually positioned to the address or location                                             | A9NE (E)                               | 902                          | 4       | 306704 207643 |
| 22     | <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Location: Merthyr Tydfil Industrial Estate, Merthyr Tydfil<br>Type: Air Pollution Control Enforcement Notice<br>Reference: PG6/26(96)1<br>Date Issued: 1st January 2007<br>Enforcement Date: Not Supplied<br>Details: Not Supplied<br>Positional Accuracy: Manually positioned within the geographical locality                                                                                                                                                       | A19SW (NE)                             | 571                          | 4       | 306096 208624 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A13NE (E)                              | 0                            | -       | 305822 208026 |
| 23     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: The Avenue, MERTHYR<br>Authority: Environment Agency, Welsh Region<br>Pollutant: Unknown<br>Note: Not Supplied<br>Incident Date: 9th April 1992<br>Incident Reference: 3630<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Unknown<br>Incident Severity: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 100m                                                              | A3NW (S)                               | 957                          | 3       | 305500 207000 |
| 24     | <b>Prosecutions Relating to Authorised Processes</b><br>Location: Goat Mill Road, Dowlais, Cf48<br>Prosecution Text: Failure to comply with packaging waste regulations<br>Prosecution Act: Pro97<br>Hearing Date: 27th November 2006<br>Verdict: Guilty<br>Fine: 4200<br>Costs: 1356<br>Positional Accuracy: Manually positioned to the road within the address or location                                                                                                                                                                  | A9NW (SE)                              | 699                          | 3       | 306283 207356 |
|        | <b>River Quality</b><br>Name: Nant Morlais<br>GQA Grade: River Quality C<br>Reach: Conf.Goitre Bk.-Headwaters<br>Estimated Distance (km): 2.4<br>Flow Rate: Flow less than 0.31 cumecs<br>Flow Type: River<br>Year: 2000                                                                                                                                                                                                                                                                                                                      | A14SE (E)                              | 624                          | 3       | 306470 207771 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 25     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 8th August 2013<br>Incident Reference: 1145556<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 2 - Significant Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Specific Waste Materials: Commercial Waste                                                                                                                                                                                                                                                                                                          | A18SW (N)                              | 489                          | 2       | 305656 208631 |
| 26     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 13th February 2007<br>Incident Reference: 469584<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Landfill Odour                                                                                                                                                                                                                                                                                                | A14NE (NE)                             | 676                          | 2       | 306460 208333 |
| 26     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 29th June 2006<br>Incident Reference: 411780<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Landfill Odour                                                                                                                                                                                                                                                                                                    | A14NE (NE)                             | 676                          | 2       | 306460 208333 |
| 26     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 17th November 2005<br>Incident Reference: 360758<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Landfill Odour                                                                                                                                                                                                                                                                                                | A14NE (NE)                             | 676                          | 2       | 306460 208333 |
| 26     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 22nd March 2002<br>Incident Reference: 66007<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Landfill Odour                                                                                                                                                                                                                                                                                                    | A14NE (NE)                             | 676                          | 2       | 306460 208333 |
| 27     | <b>Substantiated Pollution Incident Register</b><br>Authority: Natural Resources Wales<br>Incident Date: 23rd March 2002<br>Incident Reference: 66070<br>Water Impact: Category 4 - No Impact<br>Air Impact: Category 2 - Significant Incident<br>Land Impact: Category 4 - No Impact<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Atmospheric Pollutants And Effects: Landfill Odour                                                                                                                                                                                                                                                                                                    | A14SE (E)                              | 925                          | 2       | 306761 207990 |
|        | <b>Water Abstractions</b><br>Operator: Balfour Beatty Civil Engineering Limited<br>Licence Number: Wa/057/0021/002<br>Permit Version: 1<br>Location: Point A On Taf Fechan Alongside Cyfarthfa Leat<br>Authority: Environment Agency, Welsh Region<br>Abstraction: Industrial/Commercial/Energy/Public Services: Transfer between sources<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 06 June<br>Authorised End: 31 October<br>Permit Start Date: 6th June 2012<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (W)                                    | 1995                         | 3       | 303704 207663 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise<br>Map Sheet: Sheet 36 Mid Glamorgan<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                | A13SE (NE)                             | 0                            | 3       | 305772 208020 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Drift Deposits</b><br>Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium<br>Map Sheet: Sheet 36 Mid Glamorgan<br>Scale: 1:100,000                                                            | A13SE (NE)                             | 0                            | 3       | 305772 208020 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                  | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Unproductive Strata                                                                                                                                                                                                                                                                                | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                |                                        |                              |         |               |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                        |                                        |                              |         |               |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                |                                        |                              |         |               |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                                                                                                                                           |                                        |                              |         |               |
|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                      |                                        |                              |         |               |
| 28     | <b>Detailed River Network Lines</b><br>River Type: Secondary River<br>River Name: Not Supplied<br>Hydrographic Area: D008<br>River Flow Type: Primary Flow Path<br>River Surface Level: Surface<br>Drain Feature: Not a Drain<br>Flood Risk: Other Rivers<br>Management Status:<br>Water Course: Not Supplied<br>Name:<br>Water Course: Not Supplied<br>Reference: | A7NE (SW)                              | 478                          | 3       | 305346 207644 |
| 29     | <b>Detailed River Network Lines</b><br>River Type: Secondary River<br>River Name: Not Supplied<br>Hydrographic Area: D008<br>River Flow Type: Primary Flow Path<br>River Surface Level: Surface<br>Drain Feature: Not a Drain<br>Flood Risk: Other Rivers<br>Management Status:<br>Water Course: Not Supplied<br>Name:<br>Water Course: Not Supplied<br>Reference: | A12SE (W)                              | 489                          | 3       | 305202 207860 |
| 30     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (E)                              | 0                            | 3       | 305822 208025 |
| 31     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (NE)                             | 153                          | 3       | 305900 208263 |
| 32     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (N)                              | 194                          | 3       | 305776 208347 |
| 33     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (N)                              | 197                          | 3       | 305777 208350 |
| 34     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (NE)                             | 214                          | 3       | 306017 208190 |
| 35     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008                                                                                                                                                                                                                                                            | A13NE (NE)                             | 222                          | 3       | 305953 208284 |

| Map ID | Details                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 36     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008 | A13NE (NE)                             | 222                          | 3       | 305981<br>208257 |
| 37     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008 | A13NE (NE)                             | 222                          | 3       | 305953<br>208284 |
| 38     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008 | A13NE (NE)                             | 235                          | 3       | 306021<br>208222 |
| 39     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008 | A13NE (NE)                             | 235                          | 3       | 306021<br>208222 |
| 40     | <b>Detailed River Network Offline Drainage</b><br>River Type: Tertiary River<br>Hydrographic Area: D008 | A13NE (NE)                             | 273                          | 3       | 305958<br>208353 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 41     | <b>Historical Landfill Sites</b><br>Licence Holder: Merthyr Tydfil Borough Council<br>Location: Galon Uchaf<br>Name: Greenie<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD14083<br>First Input Date: 31st December 1960<br>Last Input Date: 31st December 1975<br>Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and<br>Type: Special Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6925/0014<br>BGS Ref: Not Supplied<br>Other Ref: Not Supplied                                                                                                                                     | A12SE (SW)                             | 450                          | 2       | 305321 207713 |
| 42     | <b>Historical Landfill Sites</b><br>Licence Holder: British Steel Corporation<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil<br>Name: BSC Dowlais Tips<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD14973<br>First Input Date: 31st December 1978<br>Last Input Date: 31st December 1998<br>Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste, and Liquid<br>Type: Sludge<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 6925/0005<br>BGS Ref: Not Supplied<br>Other Ref: 3                                                                                                                 | A9SW (SE)                              | 766                          | 2       | 306243 207245 |
| 43     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 30001<br>Location: Dowlais Civic Amenity Site, Land At Rear Of Horse & Groom Inn, Dowlais, Merthyr Tydfil, Glamorgan, CF48 3BT<br>Operator Name: Environmental Waste Controls Ltd<br>Operator Location: Not Supplied<br>Authority: Natural Resources Wales<br>Site Category: Household Waste Amenity Sites<br><b>Licence Status: Transferred</b><br>Issued: 24th June 1992<br>Last Modified: 11th March 2002<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m     | A9NW (SE)                              | 388                          | 2       | 306153 207670 |
| 43     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 30353<br>Location: Dowlais Civic Amenity Site, Rear Of Horse & Groom Public House, Dowlais, Merthyr Tydfil, Glamorgan, CF48 3BT<br>Operator Name: Sundorne Products (Ilanidloes) Ltd<br>Operator Location: Not Supplied<br>Authority: Natural Resources Wales<br>Site Category: Household Waste Amenity Sites<br><b>Licence Status: Transferred</b><br>Issued: 18th February 2005<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: Not Supplied<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A9NW (SE)                              | 389                          | 2       | 306154 207669 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 44     | <b>Licensed Waste Management Facilities (Locations)</b><br>Licence Number: 30341<br>Location: Mill Court, Goat Mill Road, Merthyr Tydfil, Glamorgan, CF47 0AH<br>Operator Name: Indigo Equity Holdings<br>Operator Location: Not Supplied<br>Authority: Natural Resources Wales<br>Site Category: Special Waste Transfer Stations<br><b>Licence Status: Surrendered</b><br>Issued: 28th January 2005<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: 5th June 2007<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A9SW (SE)                              | 683                          | 2       | 306125 207275 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Merthyr Tydfil County Borough Council<br>- Has supplied landfill data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        | 0                            | 4       | 305772 208020 |
| 45     | <b>Local Authority Recorded Landfill Sites</b><br>Location: Galon Uchaf<br>Reference: 120<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br><b>Last Reported Status: Closed</b><br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A12SE (SW)                             | 511                          | 4       | 305263 207689 |
| 46     | <b>Local Authority Recorded Landfill Sites</b><br>Location: B.S.C Dowlais Tips<br>Reference: 102<br>Authority: Merthyr Tydfil County Borough Council, Environmental Health Department<br><b>Last Reported Status: Closed</b><br>Types of Waste: Not Supplied<br>Date of Closure: 31/12/1979<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A9SW (SE)                              | 771                          | 4       | 306221 207227 |
| 47     | <b>Registered Waste Transfer Sites</b><br>Licence Holder: Silent Valley Waste Services Ltd<br>Licence Reference: 910125<br>Site Location: Dowlais C.A.Site rear of Horse & Groom, Rocky Road, MERTHYR TYDFIL, Mid Glamorgan, CF48 2YE<br>Operator Location: Beechwood House, Cwm, EBBW VALE, Gwent, NP23 6PZ<br>Authority: Environment Agency Wales, South East Area<br>Site Category: Civic Amenity<br>Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Licence Status: Operational as far as is knownOperational<br>Dated: 26th May 2000<br>Preceded By: 910125<br>Licence:<br>Superseded By: Not Given<br>Licence:<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste: Bonded Asbestos<br>Maximum Waste Permitted By Licence<br>Ukw 22.00.00 General & Biodegradable Waste<br>Ukw 29.10.00 Organic Chemicals - Mineral/Synthetic Oil Waste<br>Other Waste/Waste Not Otherwise Specified<br>Ukw 23.00.00 Metals & Discarded/Scrap Composite Equipment<br>Waste Solely/Mainly Finely Divided Metals Or Dusts/Powder/Fibres<br>Prohibited Waste | A9NW (SE)                              | 425                          | 3       | 306170 207630 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 47     | <b>Registered Waste Transfer Sites</b><br>Licence Holder: Silent Valley Waste Services Ltd<br>Licence Reference: 910125<br>Site Location: Dowlais C.A.Site rear of Horse & Groom, Rocky Road, MERTHYR TYDFIL, Mid Glamorgan, CF48 2YE<br>Operator Location: Beechwood House, Cwm, EBBW VALE, Gwent, NP23 6PZ<br>Authority: Environment Agency Wales, South East Area<br>Site Category: Civic Amenity<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Licence Status: Record supersededSuperseded<br>Dated: 24th June 1992<br>Preceded By: Not Given<br>Licence:<br>Superseded By: 910125<br>Licence:<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste: Gen.Household/Non-Toxic Dom.Waste<br>Max.Storage In Licence<br>Waste Oil<br>Prohibited Waste: Flammable Liquids<br>Percussive/Explosive/Similar Waste<br>Special Wastes N.O.S.<br>Sub'S Control. Radioactive Subs Act'60<br>Waste N.O.S. | A9NW (SE)                              | 425                          | 3       | 306170<br>207630 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Lower Westphalian (mainly Productive Coal Measures)                                                                                                                                                                                                                                         | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 25 - 35 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SE (S)                              | 0                            | 6       | 305772 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 25 - 35 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SE (NE)                             | 0                            | 6       | 305772 208020 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SW (SW)                             | 95                           | 6       | 305626 207901 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13NE (N)                              | 105                          | 6       | 305825 208248 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SW (W)                              | 124                          | 6       | 305545 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <150 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13SE (S)                              | 137                          | 6       | 305864 207759 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13SE (E)                              | 161                          | 6       | 306000 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13SE (E)                              | 166                          | 6       | 306000 208020 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13NE (N)                              | 166                          | 6       | 305867 208299 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13NE (NE)                             | 190                          | 6       | 306000 208171 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13SE (SE)                             | 222                          | 6       | 306000 207744 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13NE (NE)                             | 225                          | 6       | 306000 208231 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13SE (E)                              | 231                          | 6       | 306072 207997 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13SE (E)                              | 241                          | 6       | 306073 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A13NE (E)                              | 255                          | 6       | 306088 208062 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A12SE (W)                              | 258                          | 6       | 305412 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A12SE (W)                              | 258                          | 6       | 305412 208013 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A13NE (E)                              | 261                          | 6       | 306091 208129 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A14SW (E)                              | 288                          | 6       | 306119 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14SW (E)                              | 321                          | 6       | 306153 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14SW (E)                              | 330                          | 6       | 306161 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14SW (E)                              | 331                          | 6       | 306162 208015 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18SW (N)                              | 416                          | 6       | 305601 208541 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12NE (NW)                             | 419                          | 6       | 305339 208268 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A8NE (SE)                              | 444                          | 6       | 306000 207482 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14NW (E)                              | 455                          | 6       | 306277 208186 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A12SE (W)                              | 490                          | 6       | 305202 207857 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SE (W)                              | 499                          | 6       | 305184 207888 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18SE (N)                              | 525                          | 6       | 306000 208626 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A8NE (S)                               | 544                          | 6       | 306020 207382 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SE (W)                              | 549                          | 6       | 305120 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14NW (NE)                             | 552                          | 6       | 306328 208326 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic <15 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:     | A8NE (S)                               | 560                          | 6       | 306000 207359 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SE (W)                              | 581                          | 6       | 305089 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A8SE (S)                               | 608                          | 6       | 306000 207309 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SW (W)                              | 669                          | 6       | 305000 208000 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SW (W)                              | 669                          | 6       | 305000 208020 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12NW (W)                              | 676                          | 6       | 305000 208100 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12NW (W)                              | 677                          | 6       | 304999 208101 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A7NW (SW)                              | 754                          | 6       | 305000 207656 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A14SE (E)                              | 755                          | 6       | 306589 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NW (N)                              | 770                          | 6       | 305460 208866 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12NW (W)                              | 770                          | 6       | 304921 208189 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NW (N)                              | 774                          | 6       | 305666 208920 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A12SW (W)                              | 788                          | 6       | 304882 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A17SE (NW)                             | 788                          | 6       | 305125 208640 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A17SW (NW)                             | 815                          | 6       | 304996 208483 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 40 - 60 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A17SE (NW)                             | 838                          | 6       | 305103 208693 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NE (N)                              | 847                          | 6       | 305772 209000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NE (N)                              | 853                          | 6       | 305877 209000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NW (N)                              | 860                          | 6       | 305619 209000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 35 - 45 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A18NE (N)                              | 877                          | 6       | 306000 209000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A17NE (NW)                             | 892                          | 6       | 305080 208748 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration: | A3NE (S)                               | 895                          | 6       | 305772 207000 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: 15 - 25 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration: | A17NE (NW)                             | 905                          | 6       | 305109 208796 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: <15 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration:     | A3NW (S)                               | 906                          | 6       | 305699 207000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: 15 - 25 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration: | A3NE (S)                               | 910                          | 6       | 306000 207000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: 25 - 35 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration: | A17SW (NW)                             | 913                          | 6       | 304873 208482 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: 45 - 60 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 40 - 60 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration: | A17NW (NW)                             | 932                          | 6       | 305059 208785 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic: 15 - 25 mg/kg<br>Concentration:<br>Cadmium: <1.8 mg/kg<br>Concentration:<br>Chromium: 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel: 15 - 30 mg/kg<br>Concentration: | A3NW (S)                               | 942                          | 6       | 305543 207000 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 25 - 35 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:                                                                                                                                                        | A11SE (W)                              | 954                          | 6       | 304715 208000 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 15 - 25 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 60 - 90 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:                                                                                                                                                        | A17NW (NW)                             | 971                          | 6       | 305057 208838 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic 45 - 60 mg/kg<br>Concentration:<br>Cadmium <1.8 mg/kg<br>Concentration:<br>Chromium 40 - 60 mg/kg<br>Concentration:<br>Lead Concentration: <150 mg/kg<br>Nickel 15 - 30 mg/kg<br>Concentration:                                                                                                                                                        | A17NW (NW)                             | 986                          | 6       | 305031 208834 |
| 48     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Pen-Y-Bryn<br>Location: , Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 125675<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Unknown Operator<br>Periodic Type: Carboniferous<br>Geology: South Wales Lower Coal Measures Formation<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m                | A13SW (SW)                             | 13                           | 5       | 305679 207971 |
| 49     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Bradley Row<br>Location: , Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 125682<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Unknown Operator<br>Periodic Type: Carboniferous<br>Geology: South Wales Lower Coal Measures Formation<br>Commodity: Iron Ore - Ironstone<br>Positional Accuracy: Located by supplier to within 10m | A8SE (S)                               | 775                          | 5       | 305797 207121 |
| 50     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Bryniau Quarries<br>Location: , Bryniau, Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 26523<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Unknown Operator<br>Periodic Type: Carboniferous<br>Geology: Twrch Sandstone Formation<br>Commodity: Silica rock<br>Positional Accuracy: Located by supplier to within 10m                | A18NW (N)                              | 795                          | 5       | 305660 208940 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 51     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Bryniau Quarries<br>Location: , Bryniau, Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 2894<br>Type: Opencast<br><b>Status: Dormant</b><br>Operator: Guest, Keen, Baldwins Iron & Steel Co Ltd<br>Operator Location: Guest, Keen, Baldwins Iron & Steel Co Ltd, Dowlais Iron Works, Dowlais, Glamorgan<br>Periodic Type: Carboniferous<br>Geology: Twrch Sandstone Formation<br>Commodity: Sandstone<br>Positional Accuracy: Located by supplier to within 10m           | A18NE (N)                              | 885                          | 5       | 305850 209035 |
| 52     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Incline Top Occs<br>Location: , Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 2889<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Wimpey Construction (Uk) Ltd<br>Operator Location: Wimpey Construction (Uk) Ltd, Beechdale Road, Aspley, Nottingham, Ng8 3ex<br>Periodic Type: Carboniferous<br>Geology: South Wales Lower Coal Measures Formation<br>Commodity: Coal - Surface Mined<br>Positional Accuracy: Approximate location provided by supplier       | A3NE (S)                               | 910                          | 5       | 306000 207000 |
| 53     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Bryniau Quarries<br>Location: , Bryniau, Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 26524<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Unknown Operator<br>Periodic Type: Carboniferous<br>Geology: Twrch Sandstone Formation<br>Commodity: Silica rock<br>Positional Accuracy: Located by supplier to within 10m                                                                                                   | A23SW (N)                              | 941                          | 5       | 305600 209080 |
| 54     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Dowlais Iron Workings<br>Location: , Dowlais, Merthyr Tydfil, Mid Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 90901<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Dowlais Iron Co Ltd<br>Operator Location: Dowlais Iron Co Ltd, Dowlais, Merthyr Tydfil, Glamorgan<br>Periodic Type: Carboniferous<br>Geology: South Wales Lower Coal Measures Formation<br>Commodity: Iron Ore - Ironstone<br>Positional Accuracy: Located by supplier to within 10m                           | A9SE (SE)                              | 957                          | 5       | 306445 207155 |
| 55     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Great White Tip Occs<br>Location: Goat Mill Road, Merthyr Tydfil, Mid Glamorgan, Cf34 3td<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 2888<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Celtic Energy Ltd<br>Operator Location: Celtic Energy Ltd, 9 Beddau Way, Castlegate Business Park, Caerphilly, Cf83 2ax<br>Periodic Type: Carboniferous<br>Geology: South Wales Coal Measures Group<br>Commodity: Coal - Surface Mined<br>Positional Accuracy: Located by supplier to within 100m | A9SW (SE)                              | 974                          | 5       | 306400 207100 |
|        | <b>BGS Measured Urban Soil Chemistry</b><br>No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                              |         |               |
|        | <b>BGS Urban Soil Chemistry Averages</b><br>No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                              |         |               |
|        | <b>Coal Mining Affected Areas</b><br>Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.                                                                                                                                                                                                                                                                                                                             | A13SE (NE)                             | 0                            | 7       | 305772 208020 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Mining Instability</b><br>Mining Evidence: Inconclusive Coal Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied                                                                                                                                                                                                                                                                                                                      | A13SE (NE)                             | 0                            | -       | 305772 208020 |
|        | <b>Natural Cavities</b><br>Easting: 305425<br>Northing: 208713<br>Distance: 645<br>Quadrant Reference: A18<br>Quadrant Reference: NW<br>Bearing Ref: NW<br>Cavity Type: Phreatic Cave, Sinkhole, Solution Pipe, Solution Widened Joint or Fissure, Swallow Hole<br>Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Millstone Grit Group, Upper Carboniferous Limestone<br>Superficial Geology Detail: Glacial sand | A18NW (NW)                             | 645                          | 8       | 305425 208713 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                        | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                   | A13NE (N)                              | 166                          | 5       | 305867 208299 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                       | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                     | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                      | A13NE (NE)                             | 203                          | 5       | 305953 208258 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                      | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                         | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                      | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                     | A13SE (E)                              | 231                          | 5       | 306072 207997 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                        | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                       | A13SE (E)                              | 231                          | 5       | 306072 207997 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                       | A13SE (NE)                             | 0                            | 5       | 305772 208020 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                        | A13SE (NE)                             | 0                            | 5       | 305772 208020 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Homesafe Security & Electrical Solutions<br>Location: 21, Hillcrest, Merthyr Tydfil, Mid Glamorgan, CF47 9JG<br>Classification: Electrical Engineers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                        | A13SW (SW)                             | 86                           | -       | 305654 207901 |
| 57     | <b>Contemporary Trade Directory Entries</b><br>Name: Home & Dry Damp Proofing M T Ltd<br>Location: 22, Harrison Street, Merthyr Tydfil, Mid Glamorgan, CF47 9SJ<br>Classification: Damp & Dry Rot Control<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                        | A13SE (SE)                             | 141                          | -       | 305943 207801 |
| 58     | <b>Contemporary Trade Directory Entries</b><br>Name: Greers Gas<br>Location: 3, Hodges Street, Merthyr Tydfil, Mid Glamorgan, CF47 9NX<br>Classification: Gas Suppliers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                        | A13SE (SE)                             | 187                          | -       | 305910 207722 |
| 59     | <b>Contemporary Trade Directory Entries</b><br>Name: Welsh Country Foods<br>Location: 14, Tanybryn Place, Merthyr Tydfil, Mid Glamorgan, CF47 9EJ<br>Classification: Meat - Wholesale<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                          | A8NE (S)                               | 234                          | -       | 305822 207662 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Gilgen Door Systems<br>Location: 1b, Twelfth Avenue, Merthyr Tydfil, Mid Glamorgan, CF47 9TA<br>Classification: Door Manufacturers - Industrial<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                             | A18SW (NW)                             | 277                          | -       | 305601 208388 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Divine Window Manufacturers<br>Location: Creative House, Rocky Road, Merthyr Tydfil, Mid Glamorgan, CF47 9JL<br>Classification: Window Frame Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                  | A18SW (N)                              | 309                          | -       | 305608 208429 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: Jack Matthews & Son<br>Location: Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                | A18SE (N)                              | 378                          | -       | 305844 208525 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: Texturing Technology Ltd<br>Location: Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Metal Finishing Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                | A18SE (N)                              | 412                          | -       | 305851 208558 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: Texturing Technology<br>Location: Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Metal Finishing Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                    | A18SE (N)                              | 412                          | -       | 305851 208558 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: A1 Tyres & Exhausts Centre<br>Location: Unit 30a, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address             | A18SE (N)                              | 412                          | -       | 305851 208558 |
| 62     | <b>Contemporary Trade Directory Entries</b><br>Name: Robert Price (Builders Merchants) Ltd<br>Location: Unit 31, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Builders' Merchants<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A18SE (N)                              | 394                          | -       | 305778 208547 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 62     | <b>Contemporary Trade Directory Entries</b><br>Name: Lsw Wales Ltd<br>Location: Unit 31, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Distribution Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                                    | A18SE (N)                              | 394                          | -       | 305778 208547 |
| 63     | <b>Contemporary Trade Directory Entries</b><br>Name: Graft Heating Solutions<br>Location: 6, Winifred Street, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3SD<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                          | A14NW (E)                              | 399                          | -       | 306217 208191 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: Ruggers<br>Location: Unit 2a, Pant Industrial Estate, Dowlais, Merthyr Tydfil, CF48 2SR<br>Classification: Carpets & Rugs - Manufacturers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                         | A18SE (N)                              | 418                          | -       | 305913 208546 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: Dragon Engines & Engineering<br>Location: Unit 35, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Engine Rebuilding & Reconditioning<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality            | A18SE (N)                              | 435                          | -       | 305947 208552 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: Dragon Print<br>Location: Unit 2, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Printers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                            | A18SE (N)                              | 446                          | -       | 305936 208568 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: Phil Hunt<br>Location: Unit 4, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car & Commercial Repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                                          | A18SE (N)                              | 446                          | -       | 305946 208564 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: Dependable Packs Ltd<br>Location: Unit 33, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Packaging & Wrapping Equipment & Supplies<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                | A18SW (N)                              | 437                          | -       | 305654 208578 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: Dependable Packs<br>Location: Unit 33, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Paper & Cardboard Products & Packaging - Manufacturers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address       | A18SW (N)                              | 437                          | -       | 305654 208578 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: M & M Auto Repairs<br>Location: Unit 4d, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Garage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                              | A18SW (N)                              | 465                          | -       | 305632 208601 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: Sellitatis<br>Location: Unit 3, Hubert Johns Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A18SW (N)                              | 469                          | -       | 305625 208603 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: Rhymney Brewery Ltd<br>Location: Unit a2, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Brewers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                                  | A18SW (N)                              | 473                          | -       | 305667 208616 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 66     | <b>Contemporary Trade Directory Entries</b><br>Name: Dowlais Service Station<br>Location: New Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3DA<br>Classification: Petrol Filling Stations - 24 Hour<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                       | A9NW (SE)                              | 467                          | -       | 306134 207534 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: Actemium<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SS<br>Classification: Electrical Engineers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                                    | A18SE (N)                              | 469                          | -       | 305997 208565 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: B T S Transport<br>Location: Merthyr Tydfil Indust Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Road Haulage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                             | A18SE (NE)                             | 472                          | -       | 306011 208560 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: Frank Hoyle Transport Ltd<br>Location: Unit 31 Merthyr Tydfil Indust Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Road Haulage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality           | A18SE (NE)                             | 476                          | -       | 306010 208566 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: Troy Electrical<br>Location: Unit 7, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Electrical goods - servicing & repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                    | A18SE (N)                              | 487                          | -       | 306000 208583 |
| 68     | <b>Contemporary Trade Directory Entries</b><br>Name: Merthyr Tyre Services<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Tyre Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                               | A18SW (N)                              | 488                          | -       | 305673 208632 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Philip Price<br>Location: Unit A2, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality | A18SE (N)                              | 493                          | -       | 305948 208614 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Scrap Yard In Merthyr Tydfil Htt<br>Location: Unit 30b Pant Industrial Estate, Merthyr Tydfil, Mid Glamorgan, cf48 2sr<br>Classification: Car Breakers & Dismantlers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality            | A18SE (N)                              | 493                          | -       | 305948 208614 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Ats Euromaster Ltd<br>Location: Dowlais Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Tyre Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                               | A18SE (N)                              | 493                          | -       | 305948 208614 |
| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Jasonic Ltd<br>Location: Unit 8/9, Merthyr Tydfil Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2TD<br>Classification: Builders' Merchants<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                 | A18SE (NE)                             | 509                          | -       | 306055 208577 |
| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Freightier Trailers Ltd<br>Location: Unit 27, Merthyr Tydfil Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Trailers & Towing Equipment<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality         | A18SE (NE)                             | 533                          | -       | 306076 208592 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: B T S Transport<br>Location: Unit 3a Merthyr Ind Est, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Road Haulage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality         | A18SE (NE)                             | 551                          | -       | 306080 208611 |
| 71     | <b>Contemporary Trade Directory Entries</b><br>Name: Supakleen<br>Location: 10, Royal Crescent, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 9LA<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                            | A8NW (S)                               | 513                          | -       | 305563 207454 |
| 72     | <b>Contemporary Trade Directory Entries</b><br>Name: Castle Auto Repairs<br>Location: Pontsarn Road, Merthyr Tydfil, Mid Glamorgan, CF48 2TN<br>Classification: Garage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                           | A17SE (NW)                             | 516                          | -       | 305415 208549 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: Paul Hughes Motor Vehicle Repairs<br>Location: Unit 35, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Mot Testing Centres<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address              | A18SW (N)                              | 517                          | -       | 305619 208652 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: Indigo<br>Location: Unit 35, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Mot Testing Centres<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                         | A18SW (N)                              | 517                          | -       | 305619 208652 |
| 74     | <b>Contemporary Trade Directory Entries</b><br>Name: R D J Ltd<br>Location: Merthyr Tydfil Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SS<br>Classification: Quarries<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                                           | A18SE (N)                              | 517                          | -       | 305782 208670 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Cyfarthfa Structures<br>Location: Unit 5 Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: PVC-U Products - Manufacturers & Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality | A18SE (N)                              | 517                          | -       | 305999 208618 |
| 76     | <b>Contemporary Trade Directory Entries</b><br>Name: Eric Williams Car Sales<br>Location: High Street, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 9HE<br>Classification: Car Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                 | A8NE (S)                               | 520                          | -       | 305996 207399 |
| 77     | <b>Contemporary Trade Directory Entries</b><br>Name: Merthyr Patio Centre<br>Location: Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Concrete Products<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                                               | A9NW (SE)                              | 542                          | -       | 306182 207476 |
| 78     | <b>Contemporary Trade Directory Entries</b><br>Name: Aim Packaging Ltd<br>Location: Unit 38, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Packaging Materials Manufacturers & Suppliers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address  | A18NW (N)                              | 573                          | -       | 305665 208717 |
| 78     | <b>Contemporary Trade Directory Entries</b><br>Name: Heatforce<br>Location: Unit 12, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Heating Services - Industrial and Commercial<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address             | A18NW (N)                              | 573                          | -       | 305665 208717 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Design & Manufacture Ltd<br>Location: Unit 27, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Engineers - General<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                | A18NE (N)                              | 577                          | -       | 305911 208713 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Henderson Bennett (South Wales) Ltd<br>Location: Unit 27, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Sheet Metal Work<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address        | A18NE (N)                              | 577                          | -       | 305911 208713 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Design & Manufacture<br>Location: Unit 27, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Engineers - General<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                    | A18NE (N)                              | 577                          | -       | 305911 208713 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Freightier Trailer<br>Location: Unit 27a, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Trailers & Towing Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality          | A18NE (N)                              | 586                          | -       | 305886 208728 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Williams<br>Location: 30A Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Commercial Vehicle Bodybuilders & Repairers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality            | A18NE (N)                              | 604                          | -       | 305915 208740 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Leadfab Fires & Flues<br>Location: Unit 4, BT Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Fireplaces & Mantelpieces<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address  | A19SW (NE)                             | 579                          | -       | 306149 208593 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Neptune Frozen Produce<br>Location: Unit 5, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Frozen Food Processors & Distributors<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A19SW (NE)                             | 581                          | -       | 306118 208620 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Britannia Upvc<br>Location: Unit 3, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Window Tinting<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                                   | A19SW (NE)                             | 595                          | -       | 306134 208626 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Knightsbridge Contractors Ltd<br>Location: Unit 3, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Engineers - General<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address            | A19SW (NE)                             | 596                          | -       | 306135 208627 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Pant Transport<br>Location: Unit 3, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Road Haulage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                         | A19SW (NE)                             | 596                          | -       | 306135 208627 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: M R P Ornamental Ironcraft<br>Location: Unit 4, BT Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Wrought Ironwork<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                       | A19SW (NE)                             | 614                          | -       | 306154 208635 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Welsh Soup Co<br>Location: Valleys Enterprise Centre, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Food Products - Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                        | A19SW (NE)                             | 614                          | -       | 306154 208635 |
| 81     | <b>Contemporary Trade Directory Entries</b><br>Name: Jones<br>Location: Unit 2, Old Rediffusion Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car Dealers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                             | A18SE (NE)                             | 579                          | -       | 306054 208660 |
| 81     | <b>Contemporary Trade Directory Entries</b><br>Name: R L S Freight Services (Wales) Ltd<br>Location: Unit 2-4, Venture Wales Park, Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Road Haulage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location            | A18SE (NE)                             | 580                          | -       | 306054 208660 |
| 81     | <b>Contemporary Trade Directory Entries</b><br>Name: Flavours From India<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Food Products - Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                                           | A18SE (N)                              | 585                          | -       | 306032 208678 |
| 82     | <b>Contemporary Trade Directory Entries</b><br>Name: D M Motors<br>Location: Pontsarn Rd, Merthyr Tydfil, Mid Glamorgan, CF48 2TN<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                                                                            | A17SE (NW)                             | 593                          | -       | 305403 208636 |
| 83     | <b>Contemporary Trade Directory Entries</b><br>Name: Merthyr Electroplating Co Ltd<br>Location: Unit 23A, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Metal Finishing Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                               | A18NE (N)                              | 611                          | -       | 305973 208731 |
| 84     | <b>Contemporary Trade Directory Entries</b><br>Name: National Plastics<br>Location: Unit 12, Valleys Enterprise Centre, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: PVC-U Products - Manufacturers & Suppliers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A19SW (NE)                             | 617                          | -       | 306132 208655 |
| 84     | <b>Contemporary Trade Directory Entries</b><br>Name: R T Williams<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Commercial Vehicle Breakdown & Recovery Services<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                                 | A19SW (NE)                             | 637                          | -       | 306119 208688 |
| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: Forma Lingerie Ltd<br>Location: A, 3, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Lingerie Manufacturers & Wholesalers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                  | A19SW (NE)                             | 631                          | -       | 306238 208579 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: Meekiesbargaincarcentre<br>Location: Unit 4a, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car Dealers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                            | A19SW (NE)                             | 643                          | -       | 306254 208580 |
| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: V Chambers<br>Location: Unit 4,Pant Ind Est, Pant, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Roller Shutter Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                          | A19SW (NE)                             | 652                          | -       | 306251 208596 |
| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: Morlais<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Wrought Ironwork<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                                             | A19SW (NE)                             | 659                          | -       | 306248 208610 |
| 86     | <b>Contemporary Trade Directory Entries</b><br>Name: Dowlais Launderette<br>Location: 32, Victoria Street, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3RN<br>Classification: Laundries & Launderettes<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                               | A14NE (E)                              | 632                          | -       | 306466 208074 |
| 86     | <b>Contemporary Trade Directory Entries</b><br>Name: A A Domestics<br>Location: 85, Victoria Street, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3RN<br>Classification: Domestic Appliances - Servicing, Repairs & Parts<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address           | A14NE (E)                              | 656                          | -       | 306490 208042 |
| 87     | <b>Contemporary Trade Directory Entries</b><br>Name: Bil-D-Aid<br>Location: 45, Sycamore Road, Merthyr Tydfil, Mid Glamorgan, CF47 9RU<br>Classification: Damp & Dry Rot Control<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                    | A12SW (W)                              | 635                          | -       | 305051 207863 |
| 88     | <b>Contemporary Trade Directory Entries</b><br>Name: Waste Solutions Ltd<br>Location: Unit 2, Mill Court, Goat Mill Road, Merthyr Tydfil, Mid Glamorgan, CF47 0AH<br>Classification: Waste Disposal Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                        | A9SW (SE)                              | 652                          | -       | 306123 207309 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Classical Fireplaces<br>Location: Unit 7, BT Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Fireplaces & Mantelpieces<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address  | A19SW (NE)                             | 664                          | -       | 306183 208675 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Prosys Instrumentation Ltd<br>Location: Unit 7, BT Buildings, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Electrical Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A19SW (NE)                             | 664                          | -       | 306183 208675 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Treads<br>Location: Unit 11, Valleys Enterprise Centre, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Tyre Dealers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                 | A19SW (NE)                             | 686                          | -       | 306214 208679 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Merthyr & Gwent<br>Location: Unit 11,Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Fork Lift Trucks<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                           | A19SW (NE)                             | 686                          | -       | 306214 208679 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Glenn Smith<br>Location: Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car Body Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                                      | A19SW (NE)                             | 688                          | -       | 306218 208677 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Allbelt<br>Location: Unit 4, Silverline Buildings, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Conveyors & Conveyor Belts<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address               | A9NW (SE)                              | 672                          | -       | 306265 207376 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Stephens & George Print Group<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Printers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                         | A9NW (SE)                              | 674                          | -       | 306256 207367 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: David Cooper<br>Location: Unit 2, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Wrought Ironwork<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address               | A9NW (SE)                              | 674                          | -       | 306256 207367 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Stephens & George Print Group<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                       | A9NW (SE)                              | 674                          | -       | 306256 207367 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: S & G Magazines<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                     | A9NW (SE)                              | 674                          | -       | 306256 207367 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: S G C Printing Ltd<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                  | A9NW (SE)                              | 674                          | -       | 306256 207367 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Mitre Furnishing Group<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Soft Furnishings - Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location | A9NW (SE)                              | 700                          | -       | 306279 207352 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Creative Crystal<br>Location: Unit 2&6, Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Glass Engravers & Decorators<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location | A9NW (SE)                              | 701                          | -       | 306278 207350 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Beaver Power Ltd<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TF<br>Classification: Generators - Sales & Service<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location             | A9SW (SE)                              | 702                          | -       | 306273 207344 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: H P E Rail Ltd<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Railway Equipment Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location            | A9SW (SE)                              | 706                          | -       | 306265 207333 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Cords Duaflex Ltd<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TF<br>Classification: Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                                  | A9SW (SE)                              | 709                          | -       | 306256 207322 |
| 91     | <b>Contemporary Trade Directory Entries</b><br>Name: Lift Parts Direct<br>Location: Unit A3,Valleys Enterprise Centre,Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Fork Lift Trucks<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                     | A19SW (NE)                             | 681                          | -       | 306266 208623 |
| 91     | <b>Contemporary Trade Directory Entries</b><br>Name: Lj'S Auto Body Shop<br>Location: Unit 9,Pant Ind Est, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car Body Repairs<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location                                                      | A19SW (NE)                             | 694                          | -       | 306268 208640 |
| 91     | <b>Contemporary Trade Directory Entries</b><br>Name: Oasis Engineering Ltd<br>Location: Unit 8-9, Valleys Enterprise Centre, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Electrical Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address             | A19SW (NE)                             | 695                          | -       | 306268 208641 |
| 91     | <b>Contemporary Trade Directory Entries</b><br>Name: Pegasus Ltd<br>Location: Unit 10, Valleys Enterprise Centre, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Medical Equipment Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address             | A19SW (NE)                             | 695                          | -       | 306268 208641 |
| 92     | <b>Contemporary Trade Directory Entries</b><br>Name: Steve'S Domestic<br>Location: 5, Talbot Square, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 9LP<br>Classification: Domestic Appliances - Servicing, Repairs & Parts<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                | A8SW (S)                               | 682                          | -       | 305601 207256 |
| 93     | <b>Contemporary Trade Directory Entries</b><br>Name: R J Sheet Metal<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Sheet Metal Work<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                               | A9NW (SE)                              | 693                          | -       | 306306 207384 |
| 94     | <b>Contemporary Trade Directory Entries</b><br>Name: Mitre Furnishing Group<br>Location: Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Soft Furnishings - Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                             | A9NW (SE)                              | 706                          | -       | 306410 207482 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Keiths Motor Repairs<br>Location: Unit 9, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned in the proximity of the address              | A9NW (SE)                              | 713                          | -       | 306320 207369 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Arrow Polybags Ltd<br>Location: Unit 5-8, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Packaging Materials Manufacturers & Suppliers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: A J Print (Uk) Ltd<br>Location: Unit 9, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Printers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                        | A9SW (SE)                              | 752                          | -       | 306351 207346 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Pro-Office Ltd<br>Location: Unit 6-7, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Office Equipment Manufacturers & Distributors<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Metal Magic<br>Location: Unit 3, Mill Court, Goat Mill Road, Merthyr Tydfil, Mid Glamorgan, CF47 0AH<br>Classification: Door Manufacturers - Industrial<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                                   | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Phoenix Animal Feed & Cornmillers<br>Location: Unit 6-7, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Pet Foods & Animal Feeds<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Tyre Man<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Tyre Dealers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned within the geographical locality                                                                | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Tyreman<br>Location: Unit 8, Silverline Buildings, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Tyre Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                   | A9SW (SE)                              | 752                          | -       | 306351 207346 |
| 96     | <b>Contemporary Trade Directory Entries</b><br>Name: Design & Supply Ltd<br>Location: Unit 13, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Door Manufacturers - Industrial<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                              | A19NW (NE)                             | 715                          | -       | 306196 208730 |
| 97     | <b>Contemporary Trade Directory Entries</b><br>Name: G B Engineering<br>Location: Unit 14, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Precision Engineers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                            | A19NW (NE)                             | 740                          | -       | 306167 208780 |
| 97     | <b>Contemporary Trade Directory Entries</b><br>Name: Pant Animal Feeds Ltd<br>Location: Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Pet Foods & Animal Feeds<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                          | A19NW (NE)                             | 740                          | -       | 306167 208780 |
| 97     | <b>Contemporary Trade Directory Entries</b><br>Name: Pant Animal Feeds<br>Location: Unit 14, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Pet Foods & Animal Feeds<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                     | A19NW (NE)                             | 740                          | -       | 306167 208780 |
| 97     | <b>Contemporary Trade Directory Entries</b><br>Name: Pant Animal Feeds<br>Location: Unit 14, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Pet Foods & Animal Feeds<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                     | A19NW (NE)                             | 740                          | -       | 306167 208780 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 98     | <b>Contemporary Trade Directory Entries</b><br>Name: Valleys Auto Paint Supplies<br>Location: Unit 17, Pant Industrial Estate, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 2SR<br>Classification: Car Paint & Lacquer Manufacturers & Suppliers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location | A18NE (N)                              | 744                          | -       | 306021 208854 |
| 99     | <b>Contemporary Trade Directory Entries</b><br>Name: Component Engineering<br>Location: Unit 1, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Engineers - General<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                      | A9SW (SE)                              | 748                          | -       | 306301 207308 |
| 99     | <b>Contemporary Trade Directory Entries</b><br>Name: B G Technology<br>Location: Unit 1, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Electrical Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                          | A9SW (SE)                              | 748                          | -       | 306301 207308 |
| 99     | <b>Contemporary Trade Directory Entries</b><br>Name: Mitre Furnishing Group<br>Location: Unit 1, Phoenix Industrial Estate, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Soft Furnishings - Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address      | A9SW (SE)                              | 748                          | -       | 306301 207308 |
| 99     | <b>Contemporary Trade Directory Entries</b><br>Name: Jd Express Ltd<br>Location: Unit 3,4,Phoenix Ind Est,Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Road Haulage Services<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                          | A9SW (SE)                              | 750                          | -       | 306310 207312 |
| 100    | <b>Contemporary Trade Directory Entries</b><br>Name: Malaysian Cars<br>Location: Unit 2, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Car Dealers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                                | A9NE (SE)                              | 753                          | -       | 306499 207536 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: J W Morgan & Son<br>Location: Pontsarn Rd, Merthyr Tydfil, Mid Glamorgan, CF48 2TN<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                                     | A17NE (NW)                             | 801                          | -       | 305356 208852 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: Carls<br>Location: Pontsarn Rd, Merthyr Tydfil, Mid Glamorgan, CF48 2TN<br>Classification: Car Body Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                                               | A17NE (NW)                             | 807                          | -       | 305351 208856 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: Auto Care<br>Location: Pontsarn Rd, Merthyr Tydfil, Mid Glamorgan, CF48 2TN<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                                            | A17NE (NW)                             | 808                          | -       | 305350 208856 |
| 102    | <b>Contemporary Trade Directory Entries</b><br>Name: Coventry Parts Ltd<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TF<br>Classification: Engine Manufacturers & Distributors<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location                       | A9NE (SE)                              | 826                          | -       | 306552 207481 |
| 102    | <b>Contemporary Trade Directory Entries</b><br>Name: Luc (UK) Ltd<br>Location: Goat Mill Rd, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location                                                   | A9NE (SE)                              | 828                          | -       | 306556 207484 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 103    | <b>Contemporary Trade Directory Entries</b><br>Name: Shell (UK) Ltd<br>Location: High Street, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 9HA<br>Classification: Petrol Filling Stations - 24 Hour<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                      | A8SW (S)                               | 882                          | -       | 305574 207054 |
| 104    | <b>Contemporary Trade Directory Entries</b><br>Name: Pelican<br>Location: Woodforce House, Goat Mill Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3TD<br>Classification: Print Finishers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                | A9NE (SE)                              | 884                          | -       | 306596 207440 |
| 105    | <b>Contemporary Trade Directory Entries</b><br>Name: Celtic Cleaning<br>Location: Waterloo House, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 0SX<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                         | A3NW (S)                               | 913                          | -       | 305624 207008 |
| 105    | <b>Contemporary Trade Directory Entries</b><br>Name: In-Stitches Embroidery<br>Location: Waterloo House, Penydarren, Merthyr Tydfil, Mid Glamorgan, CF47 0SX<br>Classification: T-Shirts<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                      | A3NW (S)                               | 913                          | -       | 305624 207008 |
| 106    | <b>Contemporary Trade Directory Entries</b><br>Name: A & K Roller Shutter Doors<br>Location: Dan-y-Castell Farm, Pontsarn Road, Merthyr Tydfil, Mid Glamorgan, CF48 2TP<br>Classification: Roller Shutter Manufacturers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                       | A17NW (NW)                             | 975                          | -       | 305077 208863 |
| 107    | <b>Contemporary Trade Directory Entries</b><br>Name: Goricon Metarrurgical Services Ltd<br>Location: Ifor Works, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3NA<br>Classification: Refractory Materials & Supplies<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location | A15NW (E)                              | 990                          | -       | 306824 208045 |
| 108    | <b>Fuel Station Entries</b><br>Name: Jack Matthews & Son<br>Location: Merthyr Tydfil Industrial Estate, Dowlais, MERTHYR TYDFIL, Mid Glamorgan, CF48 2SR<br>Brand: Obsolete<br>Premises Type: Not Applicable<br><b>Status:</b> Obsolete<br>Positional Accuracy: Manually positioned to the address or location                         | A18SW (N)                              | 373                          | -       | 305638 208508 |
| 109    | <b>Fuel Station Entries</b><br>Name: Rss Dowlais<br>Location: New Road, Dowlais, Merthyr Tydfil, Mid Glamorgan, CF48 3DA<br>Brand: ESSO<br>Premises Type: Petrol Station<br><b>Status:</b> Open<br>Positional Accuracy: Automatically positioned to the address                                                                        | A9NW (SE)                              | 467                          | -       | 306134 207534 |
| 110    | <b>Fuel Station Entries</b><br>Name: Star Penydarren<br>Location: High Street, Penydarren, MERTHYR TYDFIL, Mid Glamorgan, CF47 9HA<br>Brand: Obsolete<br>Premises Type: Not Applicable<br><b>Status:</b> Obsolete<br>Positional Accuracy: Automatically positioned to the address                                                      | A8SW (S)                               | 882                          | -       | 305574 207054 |



| Agency & Hydrological                                                                                                                                                                                                                                                                                                                                                                                                                        | Version                                                                    | Update Cycle                                                                                                              |
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| <b>Contaminated Land Register Entries and Notices</b><br>Rhondda Cynon Taff County Borough Council - Environmental Services<br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Caerphilly County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department                               | April 2014<br>August 2013<br>August 2013<br>February 2013<br>February 2015 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Discharge Consents</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                                                                                                    | August 2014<br>November 2014                                               | Quarterly<br>Quarterly                                                                                                    |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                                                                                                                              | March 2013                                                                 | As notified                                                                                                               |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                                                                                                                                    | October 2008                                                               | Not Applicable                                                                                                            |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                                                                           | November 2014<br>November 2014                                             | Quarterly<br>Quarterly                                                                                                    |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Caerphilly County Borough Council - Environmental Health Department<br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department<br>Rhondda Cynon Taff County Borough Council - Public Health and Protection Division   | February 2013<br>June 2014<br>March 2013<br>May 2014<br>September 2014     | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Controls</b><br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department<br>Caerphilly County Borough Council - Environmental Health Department<br>Rhondda Cynon Taff County Borough Council - Public Health and Protection Division             | June 2014<br>March 2013<br>May 2014<br>September 2014<br>September 2014    | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department<br>Caerphilly County Borough Council - Environmental Health Department<br>Rhondda Cynon Taff County Borough Council - Public Health and Protection Division | June 2014<br>March 2013<br>May 2014<br>September 2014<br>September 2014    | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                                                                                                                                                                                                                      | July 2012                                                                  | Quarterly                                                                                                                 |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                                                                                                                         | December 1998                                                              | Not Applicable                                                                                                            |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                                                                         | March 2013<br>March 2013                                                   | As notified<br>As notified                                                                                                |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                                                                            | March 2013<br>March 2013                                                   | As notified<br>As notified                                                                                                |
| <b>Registered Radioactive Substances</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                                                                                                                                                                                                                                                                                                                     | November 2014<br>November 2014                                             | Quarterly<br>Quarterly                                                                                                    |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                                                                                                                                                                     | November 2001                                                              | Not Applicable                                                                                                            |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                                                                                                                                             | July 2012                                                                  | Annually                                                                                                                  |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                                                                                                                                           | July 2012                                                                  | Annually                                                                                                                  |



| Agency & Hydrological                                                                                                      | Version                        | Update Cycle           |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency Wales - South East Area<br>Natural Resources Wales  | November 2014<br>November 2014 | Quarterly<br>Quarterly |
| <b>Water Abstractions</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                                  | July 2014<br>October 2014      | Quarterly<br>Quarterly |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales                        | November 2014<br>November 2014 | Quarterly<br>Quarterly |
| <b>Groundwater Vulnerability</b><br>Environment Agency - Head Office                                                       | January 2011                   | Not Applicable         |
| <b>Drift Deposits</b><br>Environment Agency - Head Office                                                                  | January 1999                   | Not Applicable         |
| <b>Bedrock Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                 | October 2012                   | As notified            |
| <b>Superficial Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service             | January 2015                   | As notified            |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office<br>Natural Resources Wales                              | January 2015<br>January 2015   | Quarterly<br>Quarterly |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office<br>Natural Resources Wales | October 2014<br>October 2014   | Quarterly<br>Quarterly |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office<br>Natural Resources Wales         | October 2014<br>October 2014   | Quarterly<br>Quarterly |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                            | October 2014                   | Quarterly              |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                       | October 2014                   | Quarterly              |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                                  | October 2014                   | Quarterly              |
| <b>Detailed River Network Lines</b><br>Environment Agency - Head Office                                                    | March 2012                     | Annually               |
| <b>Detailed River Network Offline Drainage</b><br>Environment Agency - Head Office                                         | March 2012                     | Annually               |

| Waste                                                                                                                                                                                                                                                                                                                                                                                     | Version                                                                                    | Update Cycle                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                                                                                 | June 1996                                                                                  | Not Applicable                                                                                                                                     |
| <b>Historical Landfill Sites</b><br>Environment Agency Wales - South East Area<br>Natural Resources Wales                                                                                                                                                                                                                                                                                 | August 2014<br>May 2014                                                                    | Quarterly<br>Quarterly                                                                                                                             |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Welsh Region                                                                                                                                                                                                                                                                                           | October 2008                                                                               | Not Applicable                                                                                                                                     |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency Wales - South East Area                                                                                                                                                                                                                                                                           | August 2014                                                                                | Quarterly                                                                                                                                          |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency Wales - South East Area<br>Natural Resources Wales                                                                                                                                                                                                                                                          | November 2014<br>November 2014                                                             | Quarterly<br>Quarterly                                                                                                                             |
| <b>Local Authority Landfill Coverage</b><br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Caerphilly County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council<br>Rhondda Cynon Taff County Borough Council                                                 | May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000                                   | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable                                                             |
| <b>Local Authority Recorded Landfill Sites</b><br>Blaenau Gwent County Borough Council - Environmental Health Department<br>Caerphilly County Borough Council - Environmental Health Department<br>Merthyr Tydfil County Borough Council - Environmental Health Department<br>Powys County Council<br>Rhondda Cynon Taff County Borough Council                                           | May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000                                   | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable                                                             |
| <b>Registered Landfill Sites</b><br>Environment Agency Wales - South East Area                                                                                                                                                                                                                                                                                                            | March 2003                                                                                 | Not Applicable                                                                                                                                     |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency Wales - South East Area                                                                                                                                                                                                                                                                                                      | March 2003                                                                                 | Not Applicable                                                                                                                                     |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency Wales - South East Area                                                                                                                                                                                                                                                                                         | March 2003                                                                                 | Not Applicable                                                                                                                                     |
| Hazardous Substances                                                                                                                                                                                                                                                                                                                                                                      | Version                                                                                    | Update Cycle                                                                                                                                       |
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                                                                                                                                                                                                                                                     | January 2015                                                                               | Bi-Annually                                                                                                                                        |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                                                                                                                                                                                                                                                     | October 2014                                                                               | Bi-Annually                                                                                                                                        |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                                                                                                                                                                                                                                                 | November 2000                                                                              | Not Applicable                                                                                                                                     |
| <b>Planning Hazardous Substance Enforcements</b><br>Brecon Beacons National Park<br>Blaenau Gwent County Borough Council - Planning Department<br>Caerphilly County Borough Council - Planning Department<br>Powys County Council - Planning Department<br>Merthyr Tydfil County Borough Council - Planning Department<br>Rhondda Cynon Taff County Borough Council - Planning Department | August 2008<br>July 2014<br>March 2014<br>October 2014<br>September 2007<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Planning Hazardous Substance Consents</b><br>Brecon Beacons National Park<br>Blaenau Gwent County Borough Council - Planning Department<br>Caerphilly County Borough Council - Planning Department<br>Powys County Council - Planning Department<br>Merthyr Tydfil County Borough Council - Planning Department<br>Rhondda Cynon Taff County Borough Council - Planning Department     | August 2008<br>July 2014<br>March 2014<br>October 2014<br>September 2007<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |

| Geological                                                                                                                                      | Version       | Update Cycle   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                       | August 1996   | Not Applicable |
| <b>BGS Estimated Soil Chemistry</b><br>British Geological Survey - National Geoscience Information Service                                      | January 2010  | Annually       |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                        | October 2014  | Bi-Annually    |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Mining Report Service                                                                 | December 2013 | As notified    |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                | October 2000  | Not Applicable |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                            | July 2014     | Not Applicable |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | June 2014     | Annually       |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | June 2014     | Annually       |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | June 2014     | Annually       |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | June 2014     | Annually       |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | June 2014     | Annually       |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service | June 2014     | Annually       |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                            | July 2011     | As notified    |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                       | July 2011     | As notified    |
| Industrial Land Use                                                                                                                             | Version       | Update Cycle   |
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                                                              | November 2014 | Quarterly      |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                                                          | November 2014 | Quarterly      |

| Sensitive Land Use                                                                                                                                                                                                                          | Version                                                                      | Update Cycle                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Areas of Outstanding Natural Beauty</b><br>Natural Resources Wales                                                                                                                                                                       | October 2014                                                                 | Bi-Annually                                                             |
| <b>Environmentally Sensitive Areas</b><br>The National Assembly for Wales - GI Services (Department of Planning & Countryside)                                                                                                              | August 2008                                                                  | Annually                                                                |
| <b>Forest Parks</b><br>Forestry Commission                                                                                                                                                                                                  | April 1997                                                                   | Not Applicable                                                          |
| <b>Local Nature Reserves</b><br>Blaenau Gwent County Borough Council - Municipal Offices<br>Caerphilly County Borough Council<br>Merthyr Tydfil County Borough Council<br>Powys County Council<br>Rhondda Cynon Taff County Borough Council | October 2014<br>October 2014<br>October 2014<br>October 2014<br>October 2014 | Bi-Annually<br>Bi-Annually<br>Bi-Annually<br>Bi-Annually<br>Bi-Annually |
| <b>Marine Nature Reserves</b><br>Natural Resources Wales                                                                                                                                                                                    | September 2014                                                               | Bi-Annually                                                             |
| <b>National Nature Reserves</b><br>Natural Resources Wales                                                                                                                                                                                  | October 2014                                                                 | Bi-Annually                                                             |
| <b>National Parks</b><br>Natural Resources Wales                                                                                                                                                                                            | March 2014                                                                   | Annually                                                                |
| <b>Nitrate Sensitive Areas</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)                                                                                                                                | February 2012                                                                | Not Applicable                                                          |
| <b>Nitrate Vulnerable Zones</b><br>The National Assembly for Wales - GI Services (Department of Planning & Countryside)                                                                                                                     | October 2005                                                                 | Annually                                                                |
| <b>Ramsar Sites</b><br>Natural Resources Wales                                                                                                                                                                                              | October 2014                                                                 | Bi-Annually                                                             |
| <b>Sites of Special Scientific Interest</b><br>Natural Resources Wales                                                                                                                                                                      | March 2014                                                                   | Bi-Annually                                                             |
| <b>Special Areas of Conservation</b><br>Natural Resources Wales                                                                                                                                                                             | March 2014                                                                   | Bi-Annually                                                             |
| <b>Special Protection Areas</b><br>Natural Resources Wales                                                                                                                                                                                  | March 2014                                                                   | Bi-Annually                                                             |

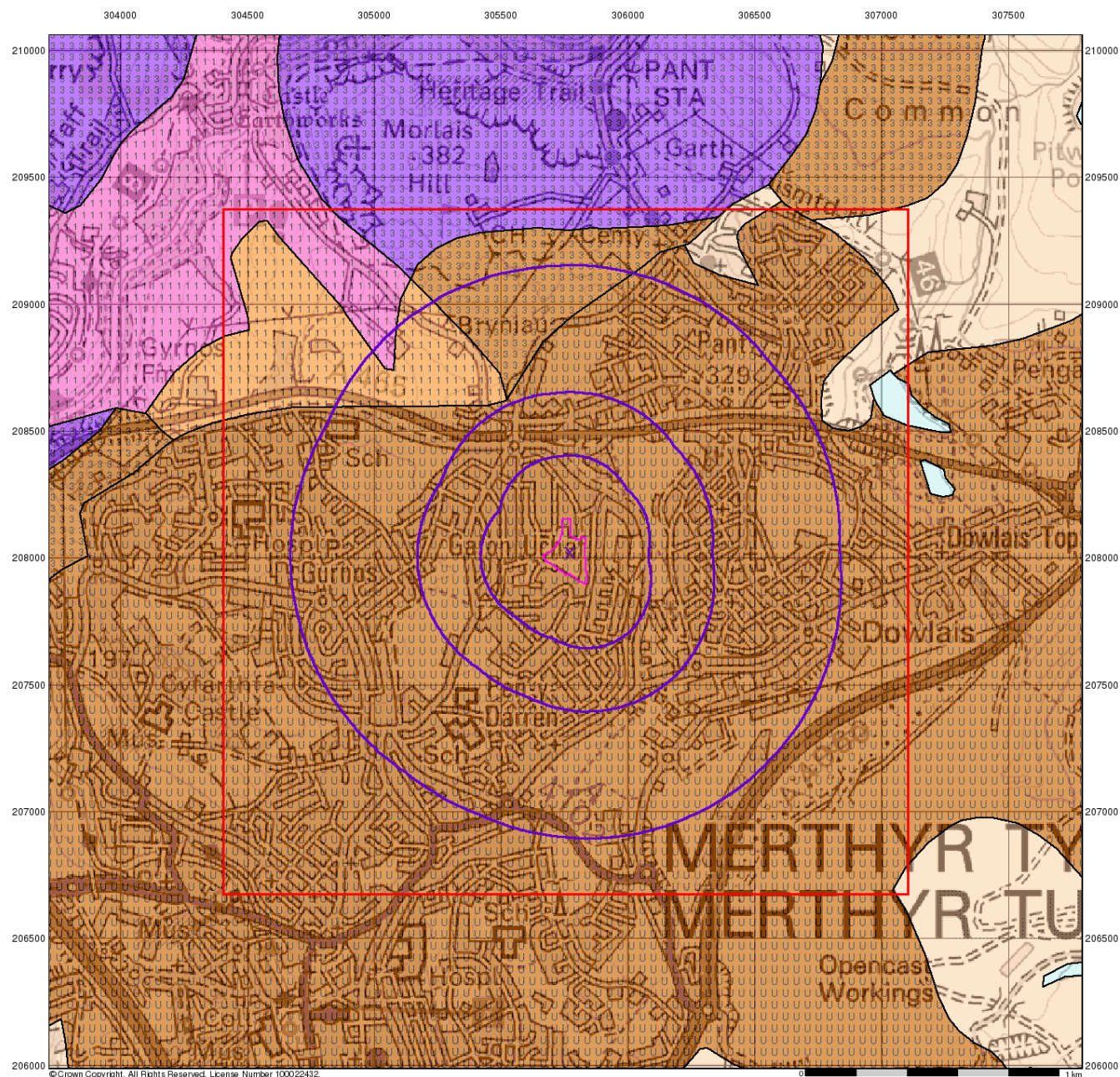
A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                    |
|----------------------------------------|---------------------------------------------------------------------------------------|
| Ordnance Survey                        |    |
| Environment Agency                     |    |
| Scottish Environment Protection Agency |    |
| The Coal Authority                     |    |
| British Geological Survey              |    |
| Centre for Ecology and Hydrology       |    |
| Natural Resources Wales                |   |
| Scottish Natural Heritage              |  |
| Natural England                        |  |
| Public Health England                  |  |
| Ove Arup                               |  |
| Peter Brett Associates                 |  |

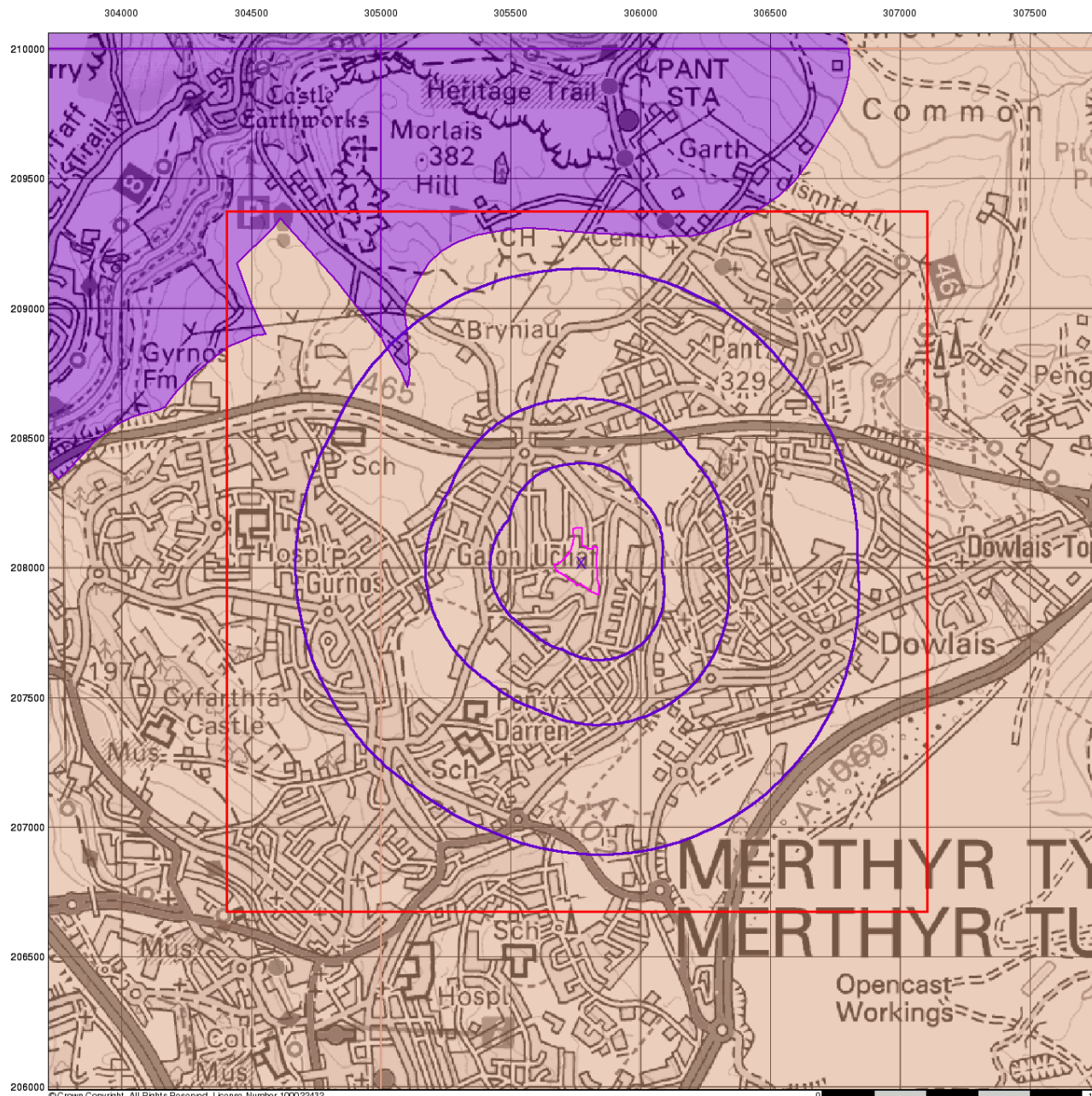
| Contact | Name and Address                                                                                                                                         | Contact Details                                                                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2       | <b>Natural Resources Wales</b><br>Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP                                                                         | Telephone: 0300 065 3000<br>Email: <a href="mailto:enquiries@naturalresourceswales.gov.uk">enquiries@naturalresourceswales.gov.uk</a>                                                                                                |
| 3       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                     | Telephone: 08708 506 506<br>Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>                                                                                                      |
| 4       | <b>Merthyr Tydfil County Borough Council - Environmental Health Department</b><br>Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN   | Telephone: 01685 725000<br>Fax: 01685 725024<br>Website: <a href="http://www.merthyr.gov.uk">www.merthyr.gov.uk</a>                                                                                                                  |
| 5       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a><br>Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>                                                   |
| 6       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                         | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: <a href="mailto:customerservices@landmark.co.uk">customerservices@landmark.co.uk</a><br>Website: <a href="http://www.landmark.co.uk">www.landmark.co.uk</a>                 |
| 7       | <b>The Coal Authority - Mining Report Service</b><br>200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG                                            | Telephone: 0845 7626848<br>Email: <a href="mailto:thecoalauthority@coal.gov.uk">thecoalauthority@coal.gov.uk</a>                                                                                                                     |
| 8       | <b>Peter Brett Associates</b><br>Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN                                                     | Telephone: 0118 950 0761<br>Fax: 0118 959 7498<br>Email: <a href="mailto:reading@pba.co.uk">reading@pba.co.uk</a><br>Website: <a href="http://www.pba.co.uk">www.pba.co.uk</a>                                                       |
| 9       | <b>Merthyr Tydfil County Borough Council</b><br>Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN                                     | Telephone: 01685 725000<br>Fax: 01685 722146<br>Website: <a href="http://www.merthyr.gov.uk">www.merthyr.gov.uk</a>                                                                                                                  |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ          | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: <a href="mailto:radon@phe.gov.uk">radon@phe.gov.uk</a><br>Website: <a href="http://www.ukradon.org">www.ukradon.org</a>                                                       |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                         | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a><br>Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a> |

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.









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0 1 km



## Bedrock Aquifer Designation

### General

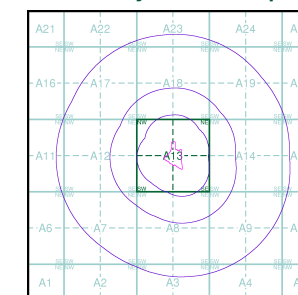
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

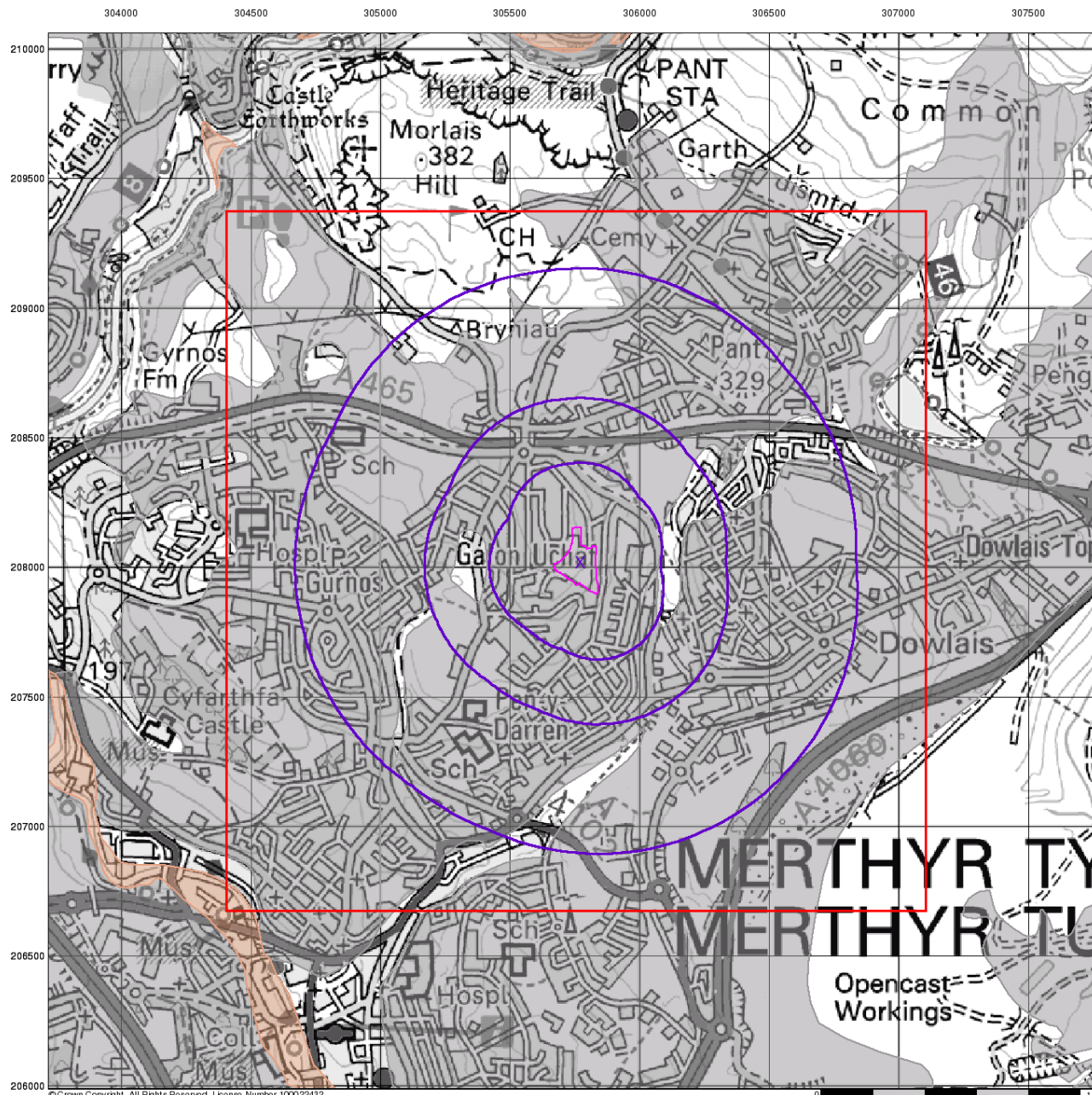
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 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

### Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



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## Superficial Aquifer Designation

### General

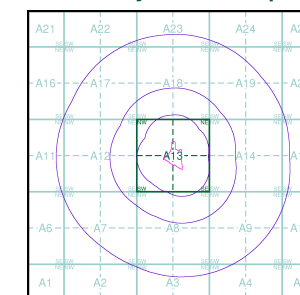
- Specified Site
- Specified Buffer(s)
- Slice
- Bearing Reference Point
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

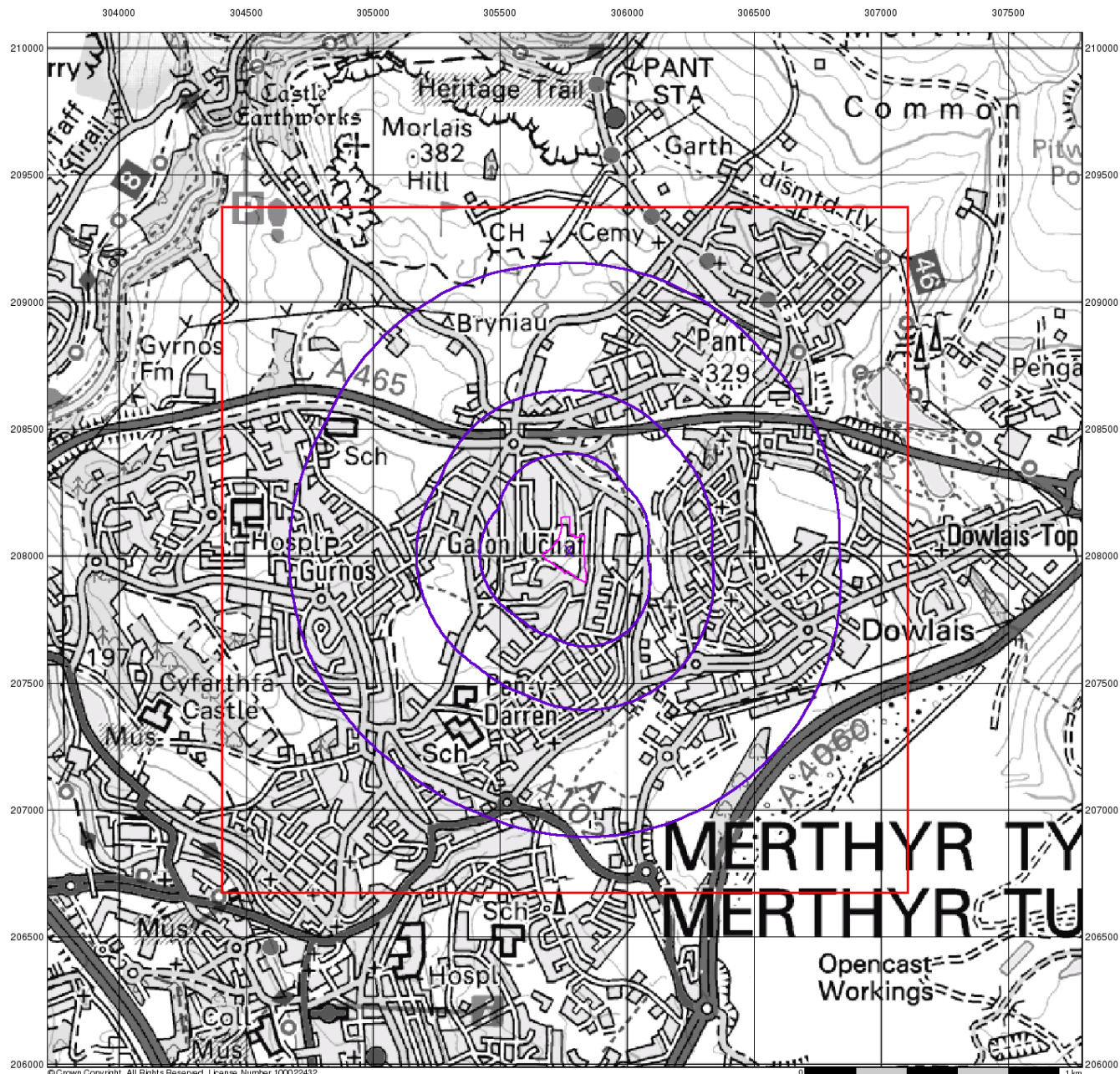
### Site Details

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## Source Protection Zones

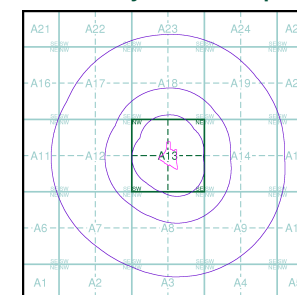
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

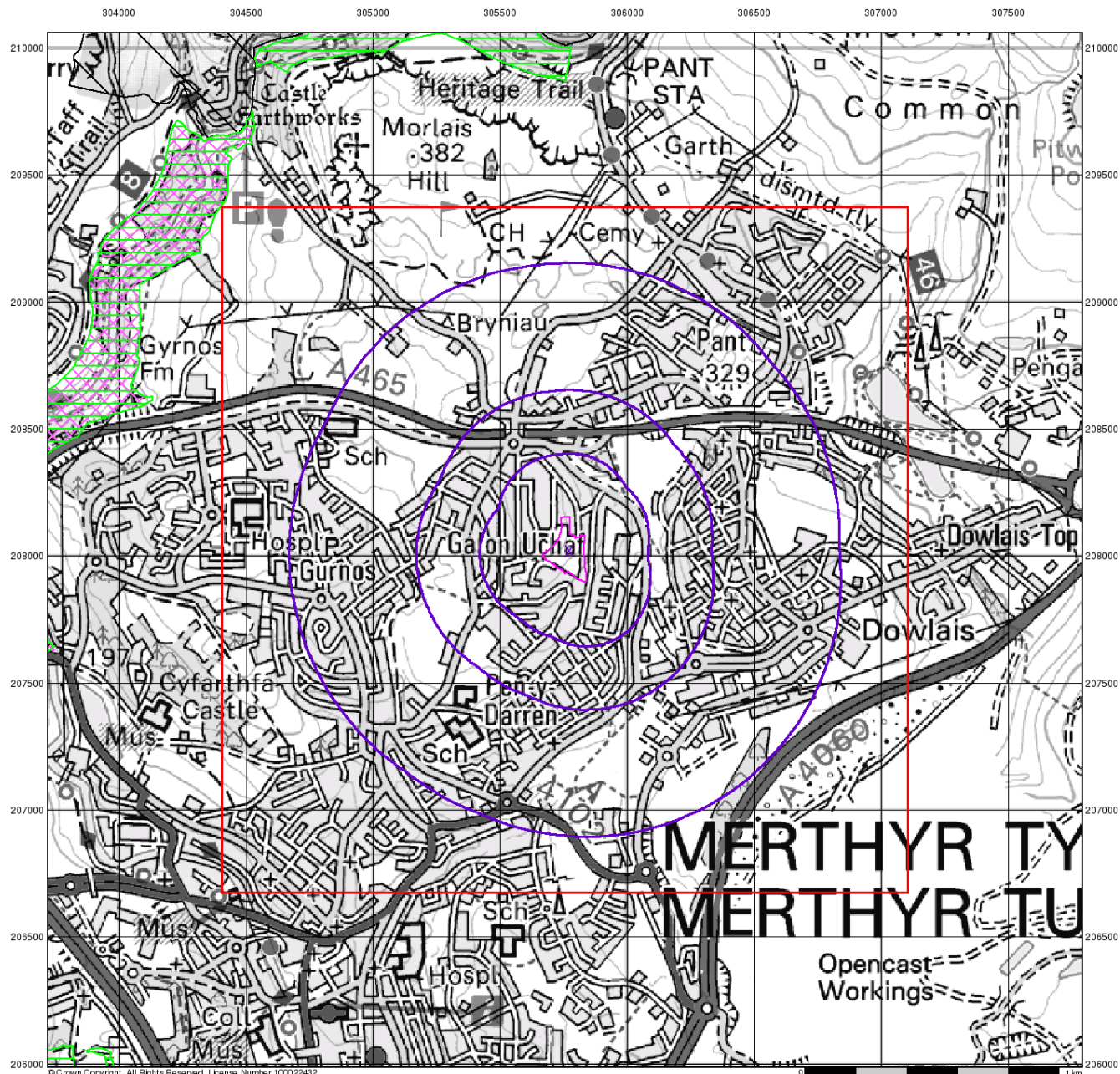
### Site Details

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## Sensitive Land Uses

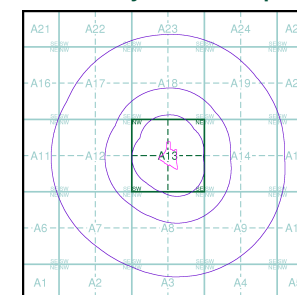
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

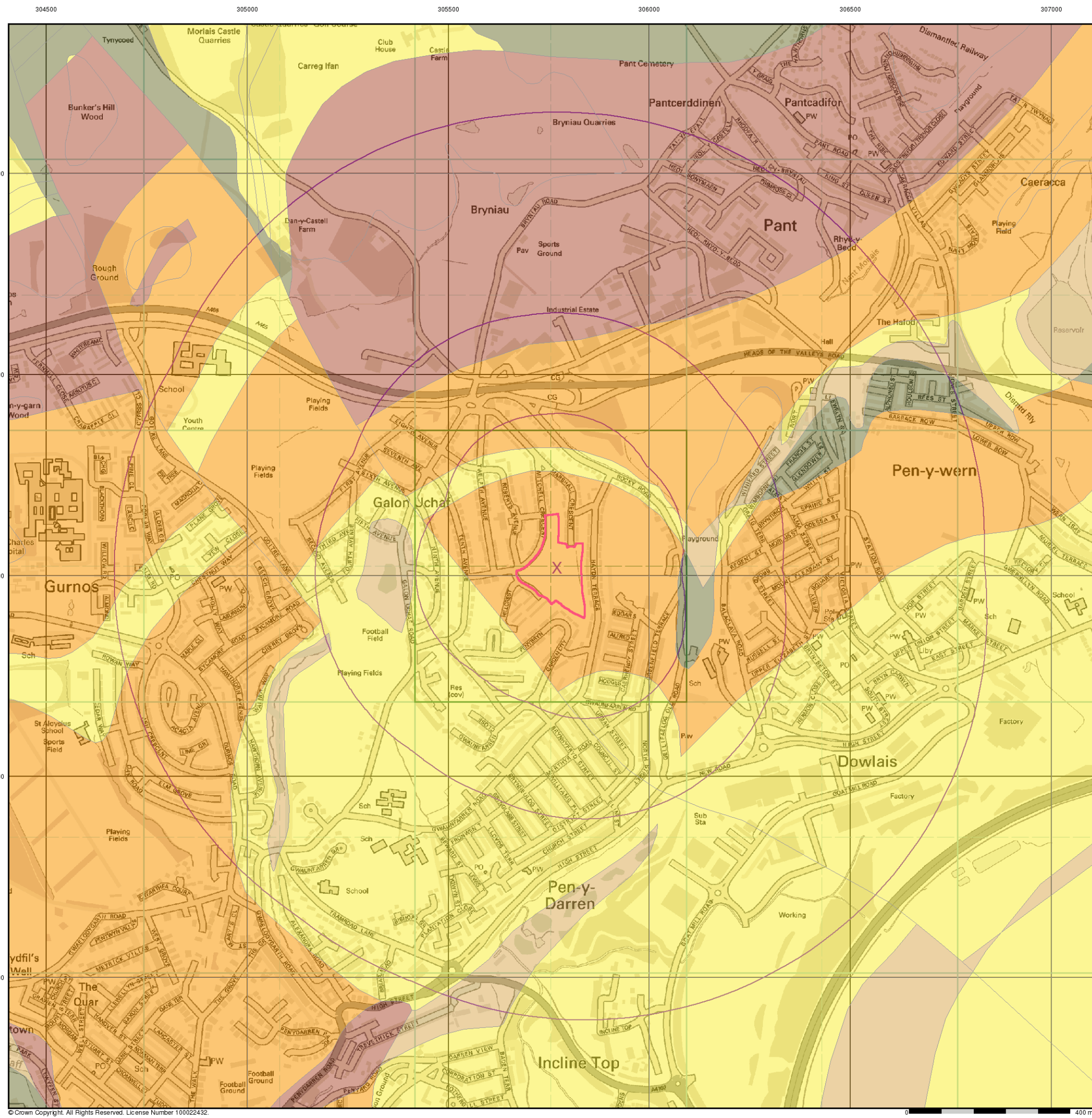
### Site Details

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Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



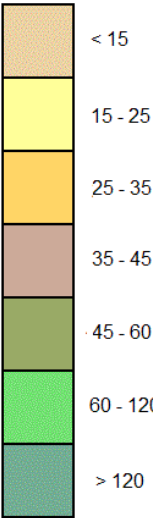


### General

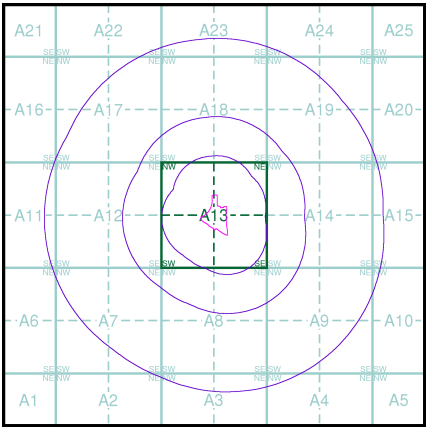
Specified Site Specified Buffer(s) Bearing Reference Point

### Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



### Estimated Soil Chemistry Arsenic - Slice A



### Order Details

Order Details: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

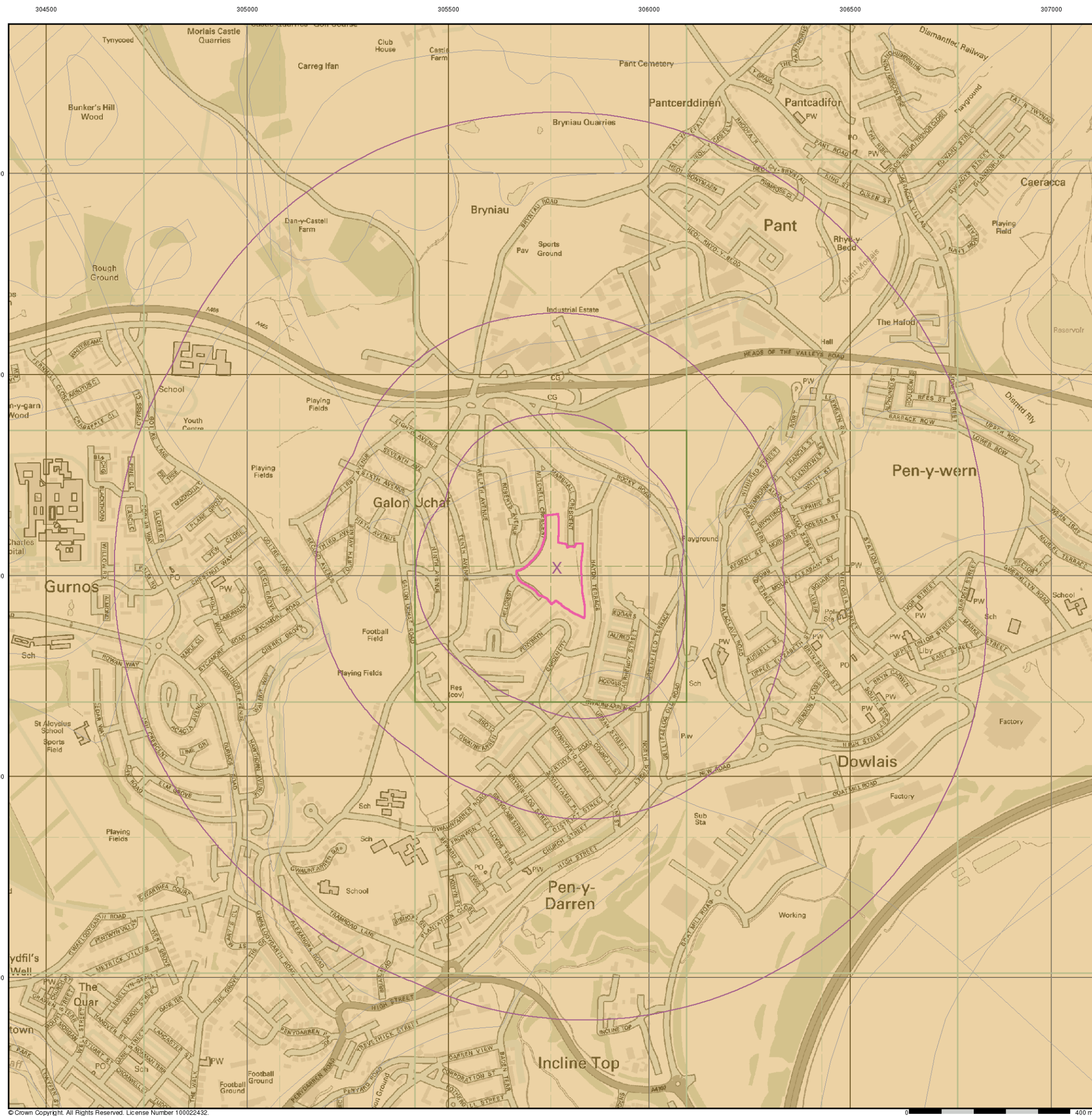
### Site Details

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Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



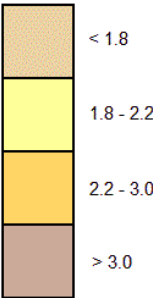


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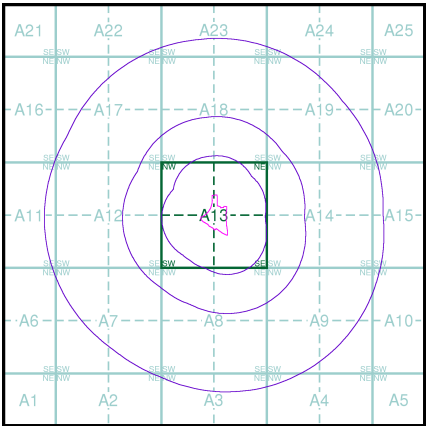
- Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

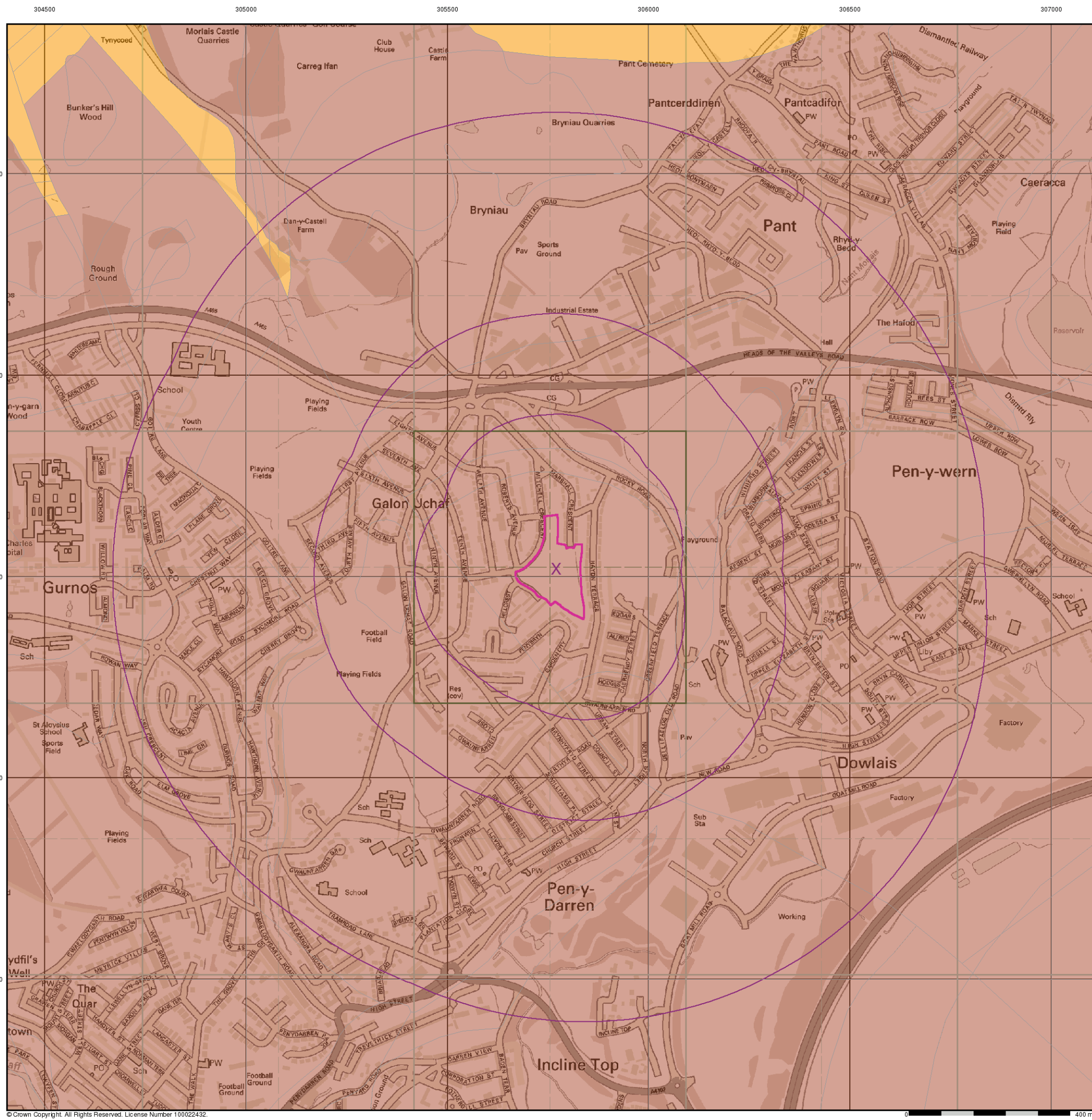
Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



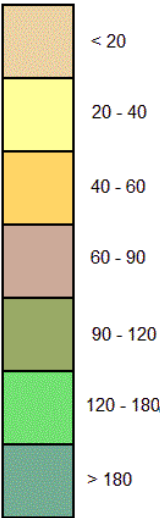


General

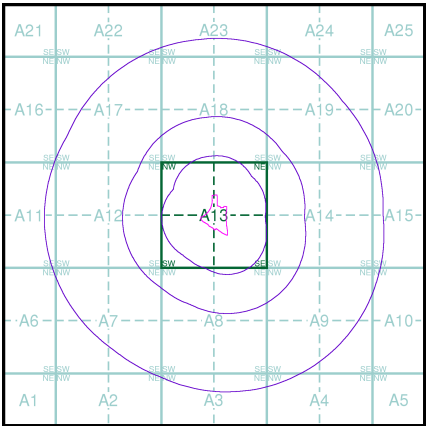
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

Site Details

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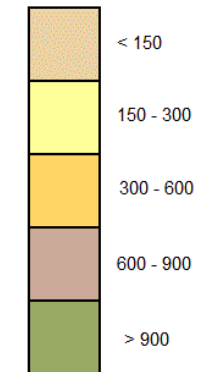


## General

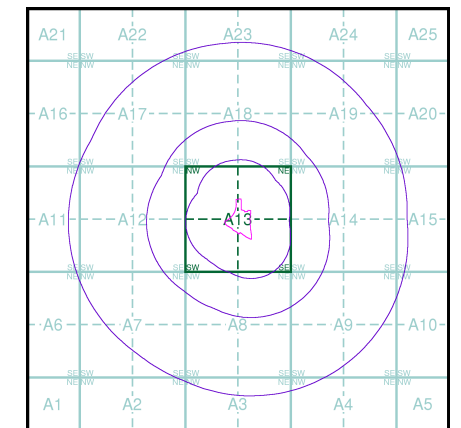
Specified Site Specified Buffer(s) Bearing Reference Point

## Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



## Estimated Soil Chemistry Lead - Slice A



## Order Details

Order Details: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

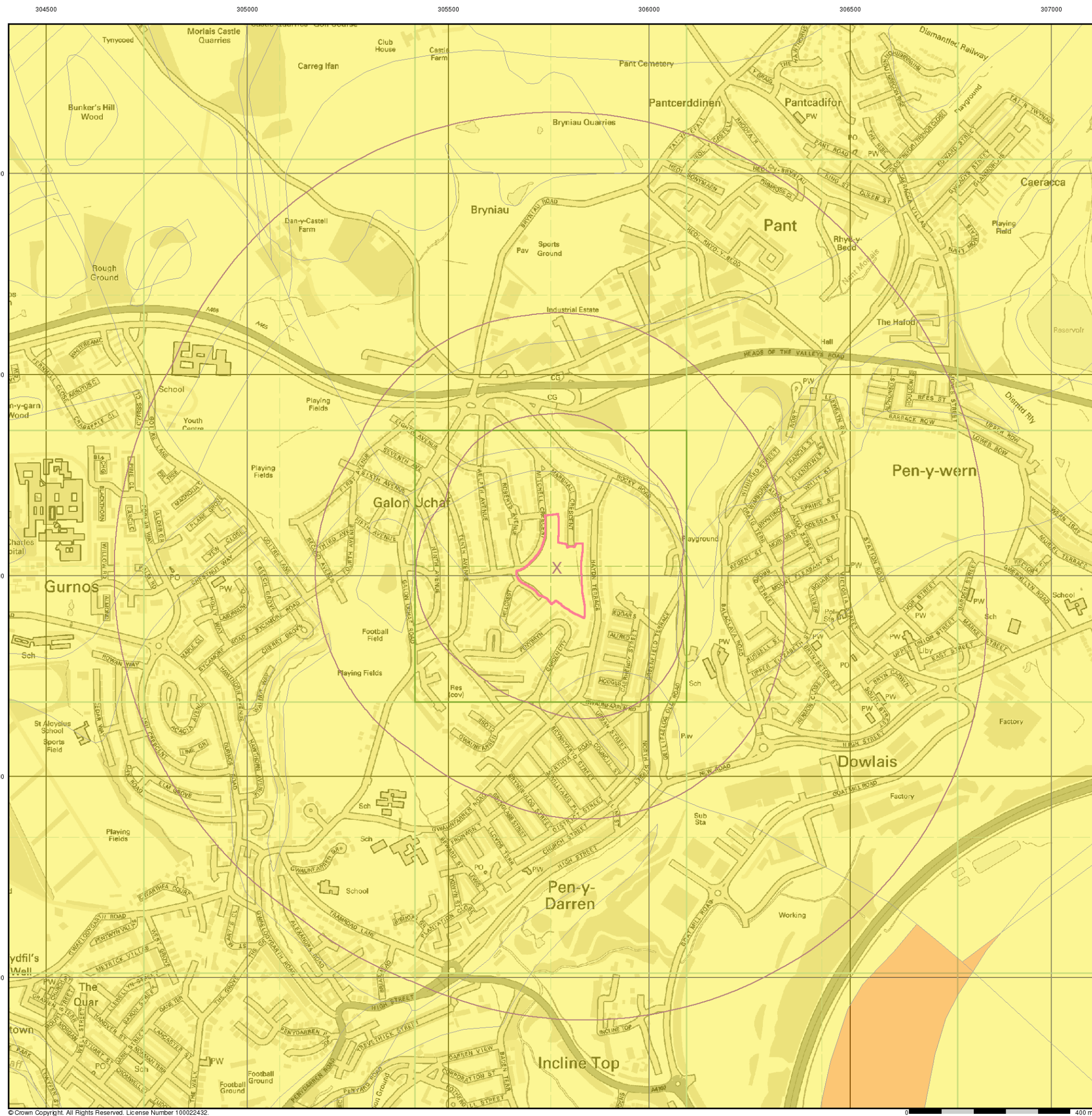
## Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



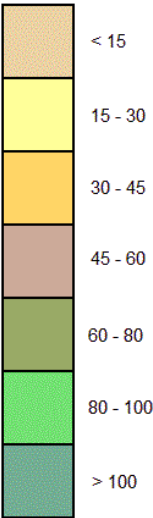


General

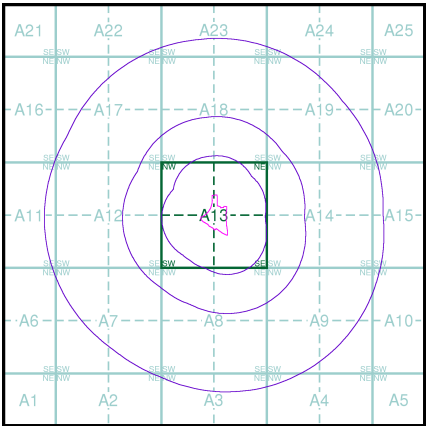
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



## General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

## Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

## Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

## Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

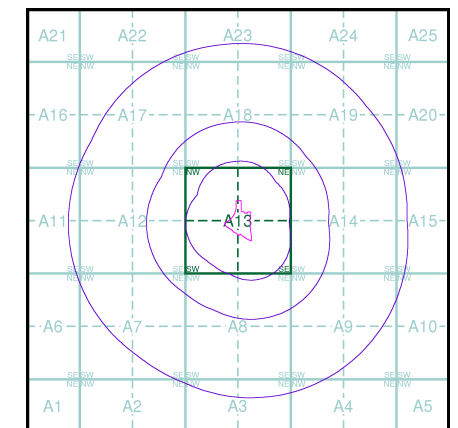
## Geological

- BGS Recorded Mineral Site

## Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

## Site Sensitivity Map - Slice A

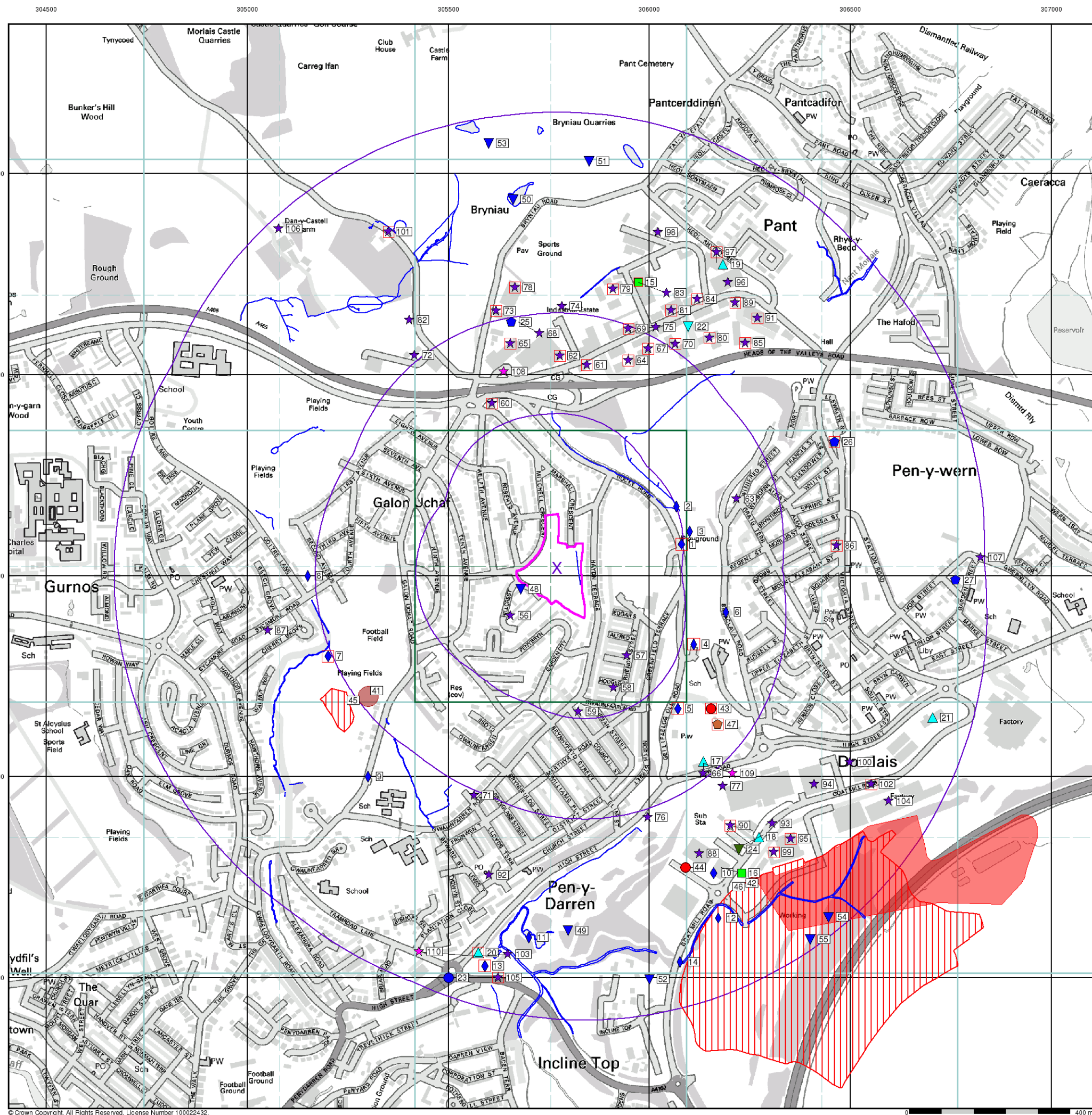


## Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

## Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ





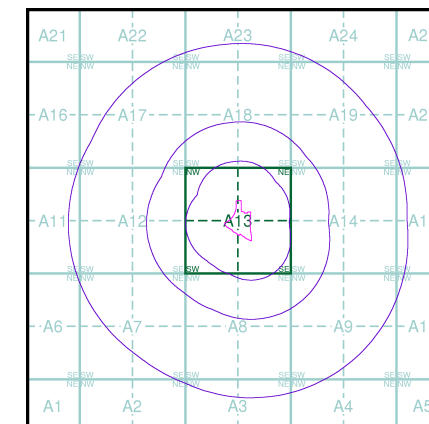
### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

### Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

### Flood Map - Slice A

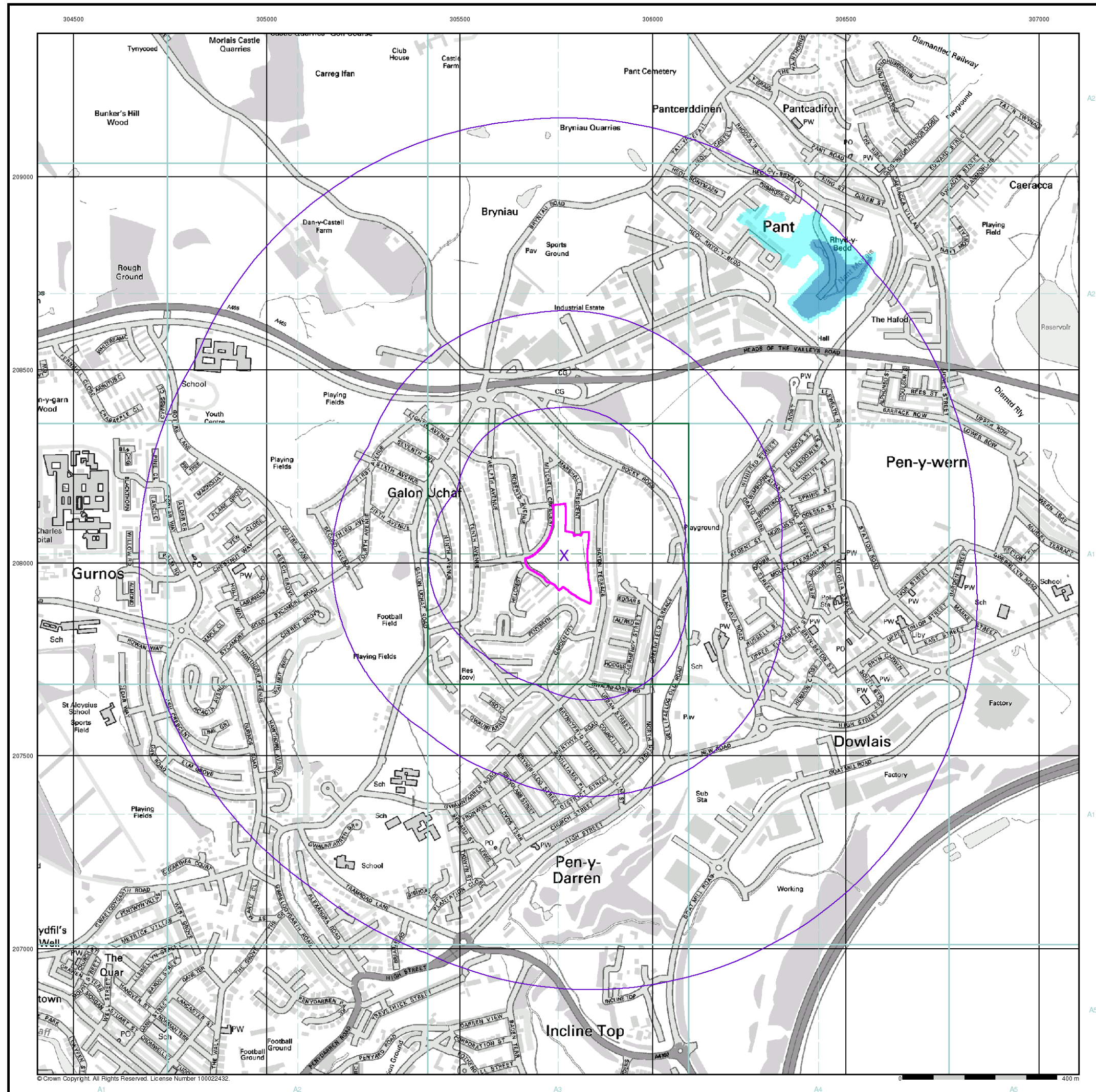


### Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

### Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ





### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID
-  Several of Type at Location

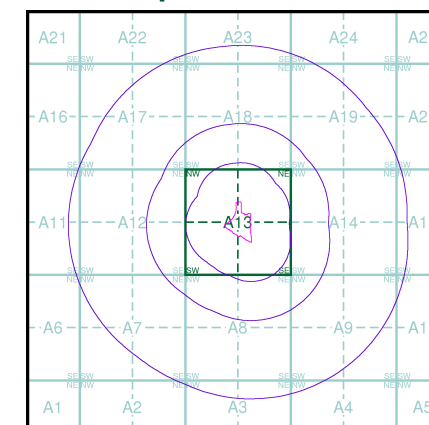
### Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

### Borehole Map - Slice A

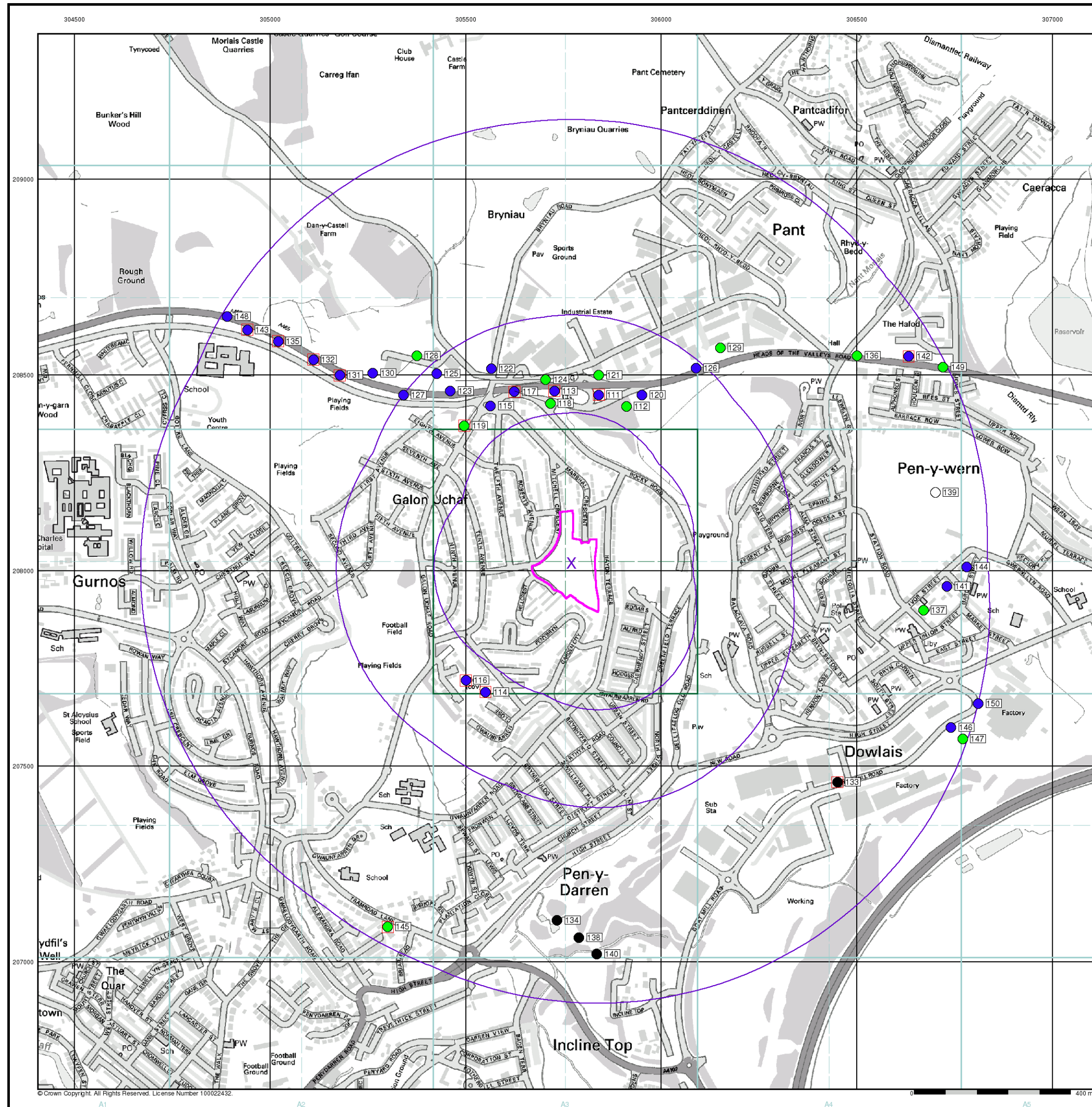


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 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2  
 Search Buffer (m): 1000

### Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ







### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

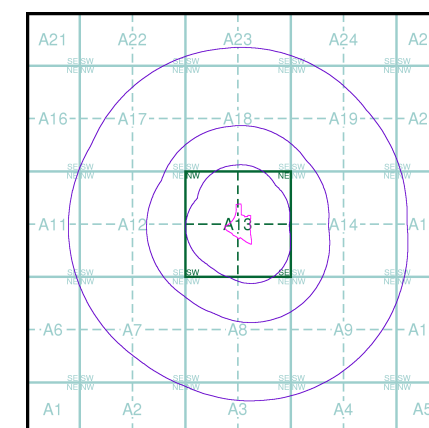
### Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

### Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW - Mean Low Water
- MHW - Mean High Water

### EAN/RW Detailed River Network Map - Slice A



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

### Site Details

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### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

### Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
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- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

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- BGS Recorded Landfill Site
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- EA Historic Landfill (Polygon)
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- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
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- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

### Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

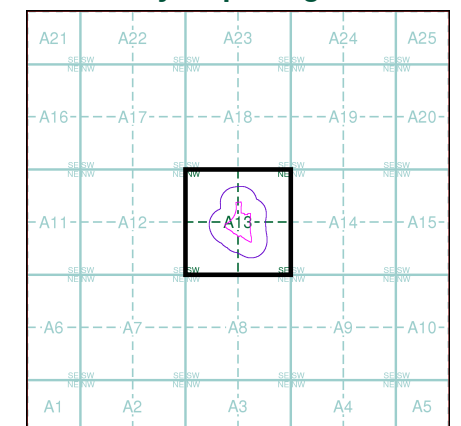
### Geological

- BGS Recorded Mineral Site

### Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

### Site Sensitivity Map - Segment A13

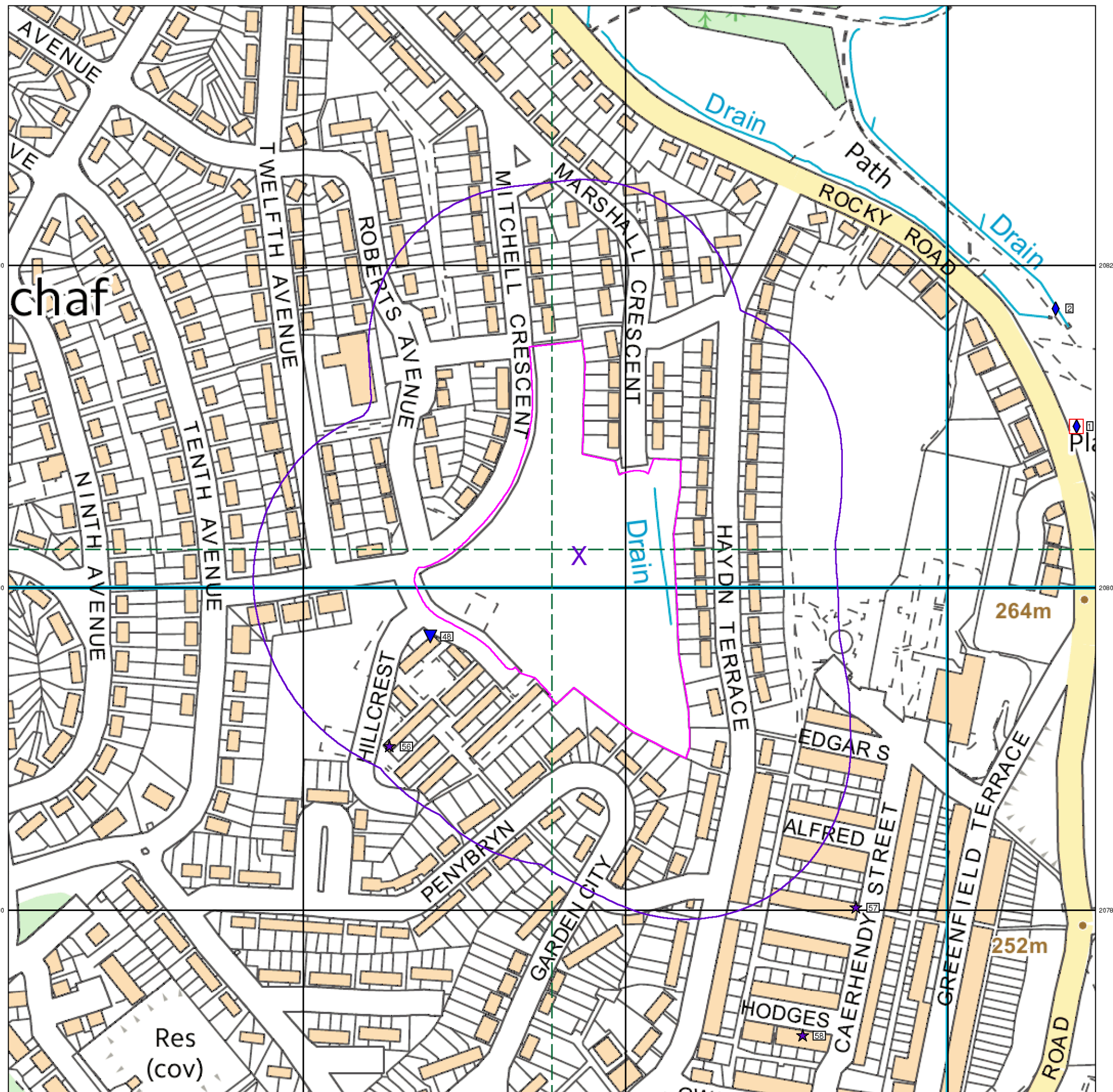


### Order Details

Order Number: 64329490\_1\_1  
 Customer Ref: 13082/TW  
 National Grid Reference: 305770, 208020  
 Slice: A  
 Site Area (Ha): 2.2

### Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ





# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

|  |                                               |  |                             |  |               |
|--|-----------------------------------------------|--|-----------------------------|--|---------------|
|  | Gravel Pit                                    |  | Sand Pit                    |  | Other Pits    |
|  | Quarry                                        |  | Shingle                     |  | Orchard       |
|  | Osiers                                        |  | Reeds                       |  | Marsh         |
|  | Mixed Wood                                    |  | Deciduous                   |  | Brushwood     |
|  | Fir                                           |  | Furze                       |  | Rough Pasture |
|  | Arrow denotes flow of water                   |  | Trigonometrical Station     |  |               |
|  | Site of Antiquities                           |  | Bench Mark                  |  |               |
|  | Pump, Guide Post, Signal Post                 |  | Well, Spring, Boundary Post |  |               |
|  | •285 Surface Level                            |  |                             |  |               |
|  | Sketched Contour                              |  | Instrumental Contour        |  |               |
|  | Main Roads                                    |  | Minor Roads                 |  |               |
|  | Sunken Road                                   |  | Raised Road                 |  |               |
|  | Road over Railway                             |  | Railway over River          |  |               |
|  | Railway over Road                             |  | Level Crossing              |  |               |
|  | Road over River or Canal                      |  | Road over Stream            |  |               |
|  | Road over Stream                              |  |                             |  |               |
|  | County Boundary (Geographical)                |  |                             |  |               |
|  | County & Civil Parish Boundary                |  |                             |  |               |
|  | Administrative County & Civil Parish Boundary |  |                             |  |               |
|  | County Borough Boundary (England)             |  |                             |  |               |
|  | County Burgh Boundary (Scotland)              |  |                             |  |               |
|  | Rural District Boundary                       |  |                             |  |               |
|  | Civil Parish Boundary                         |  |                             |  |               |

## Ordnance Survey Plan 1:10,000

|  |                                                                       |  |                                                         |
|--|-----------------------------------------------------------------------|--|---------------------------------------------------------|
|  | Chalk Pit, Clay Pit or Quarry                                         |  | Gravel Pit                                              |
|  | Sand Pit                                                              |  | Disused Pit or Quarry                                   |
|  | Refuse or Slag Heap                                                   |  | Lake, Loch or Pond                                      |
|  | Dunes                                                                 |  | Boulders                                                |
|  | Coniferous Trees                                                      |  | Non-Coniferous Trees                                    |
|  | Orchard                                                               |  | Scrub                                                   |
|  | Bracken                                                               |  | Heath                                                   |
|  | Marsh                                                                 |  | Reeds                                                   |
|  | Building                                                              |  | Glasshouse                                              |
|  | Sloping Masonry                                                       |  | Pylon                                                   |
|  | Cutting                                                               |  | Embankment                                              |
|  | Road Under                                                            |  | Road Over                                               |
|  | Level Crossing                                                        |  | Foot Bridge                                             |
|  | Standard Gauge Multiple Track                                         |  | Standard Gauge Single Track                             |
|  | Siding, Tramway or Mineral Line                                       |  | Narrow Gauge                                            |
|  | Geographical County                                                   |  | Administrative County, County Borough or County of City |
|  | Municipal Borough, Urban or Rural District, Burgh or District Council |  | Borough, Burgh or County Constituency                   |
|  | Civil Parish                                                          |  |                                                         |
|  | BP, BS Boundary Post or Stone                                         |  | Police Station                                          |
|  | Church                                                                |  | Post Office                                             |
|  | Club House                                                            |  | Public Convenience                                      |
|  | Fire Engine Station                                                   |  | Public House                                            |
|  | Foot Bridge                                                           |  | Signal Box                                              |
|  | Fountain                                                              |  | Spring                                                  |
|  | Guide Post                                                            |  | Telephone Call Box                                      |
|  | Mile Post                                                             |  | Telephone Call Post                                     |
|  | Mile Stone                                                            |  | Well                                                    |

## 1:10,000 Raster Mapping

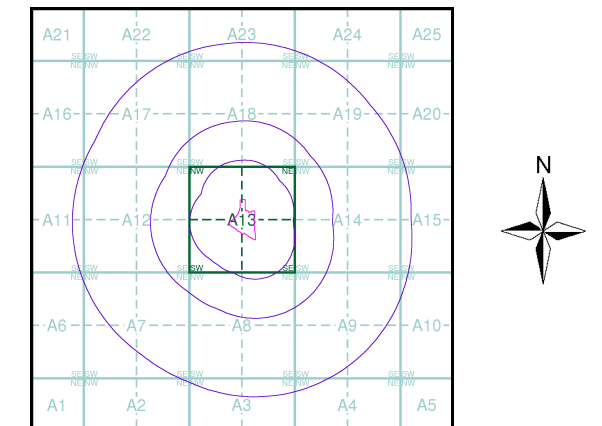
|  |                                                          |  |                                            |
|--|----------------------------------------------------------|--|--------------------------------------------|
|  | Gravel Pit                                               |  | Refuse tip or slag heap                    |
|  | Rock                                                     |  | Rock (scattered)                           |
|  | Boulders                                                 |  | Boulders (scattered)                       |
|  | Shingle                                                  |  | Mud                                        |
|  | Sand                                                     |  | Sand Pit                                   |
|  | Slopes                                                   |  | Top of cliff                               |
|  | General detail                                           |  | Underground detail                         |
|  | Overhead detail                                          |  | Narrow gauge railway                       |
|  | Multi-track railway                                      |  | Single track railway                       |
|  | County boundary (England only)                           |  | Civil, parish or community boundary        |
|  | District, Unitary, Metropolitan, London Borough boundary |  | Constituency boundary                      |
|  | Area of wooded vegetation                                |  | Non-coniferous trees                       |
|  | Non-coniferous trees (scattered)                         |  | Coniferous trees                           |
|  | Coniferous trees (scattered)                             |  | Positioned tree                            |
|  | Orchard                                                  |  | Coppice or Osiers                          |
|  | Rough Grassland                                          |  | Heath                                      |
|  | Scrub                                                    |  | Marsh, Salt Marsh or Reeds                 |
|  | Water feature                                            |  | Flow arrows                                |
|  | Mean high water (springs)                                |  | Mean low water (springs)                   |
|  | Telephone line (where shown)                             |  | Electricity transmission line (with poles) |
|  | Bench mark (where shown)                                 |  | Triangulation station                      |
|  | Point feature (e.g. Guide Post or Mile Stone)            |  | Pylon, flare stack or lighting tower       |
|  | Site of (antiquity)                                      |  | Glasshouse                                 |
|  | General Building                                         |  | Important Building                         |



## Historical Mapping & Photography included:

| Mapping Type                  | Scale    | Date        | Pg |
|-------------------------------|----------|-------------|----|
| Monmouthshire                 | 1:10,560 | 1884        | 2  |
| Brecknockshire                | 1:10,560 | 1884 - 1885 | 3  |
| Glamorganshire                | 1:10,560 | 1885        | 4  |
| Glamorganshire                | 1:10,560 | 1901        | 5  |
| Brecknockshire                | 1:10,560 | 1905        | 6  |
| Brecknockshire                | 1:10,560 | 1922        | 7  |
| Brecknockshire                | 1:10,560 | 1938 - 1951 | 8  |
| Historical Aerial Photography | 1:10,560 | 1945        | 9  |
| Brecknockshire                | 1:10,560 | 1951        | 10 |
| Ordnance Survey Plan          | 1:10,000 | 1965        | 11 |
| Ordnance Survey Plan          | 1:10,000 | 1977 - 1979 | 12 |
| Ordnance Survey Plan          | 1:10,000 | 1983        | 13 |
| Ordnance Survey Plan          | 1:10,000 | 1992        | 14 |
| 10K Raster Mapping            | 1:10,000 | 2006        | 15 |
| VectorMap Local               | 1:10,000 | 2014        | 16 |

## Historical Map - Slice A



## Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

## Site Details

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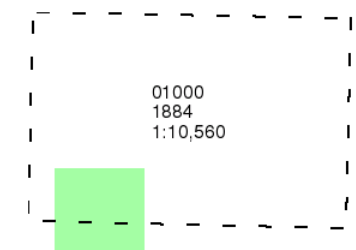
## Monmouthshire

Published 1884

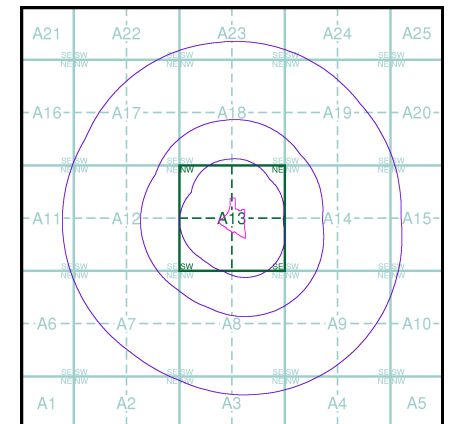
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



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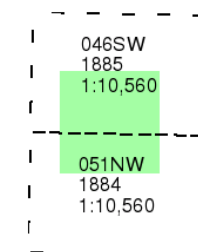
## Brecknockshire

Published 1884 - 1885

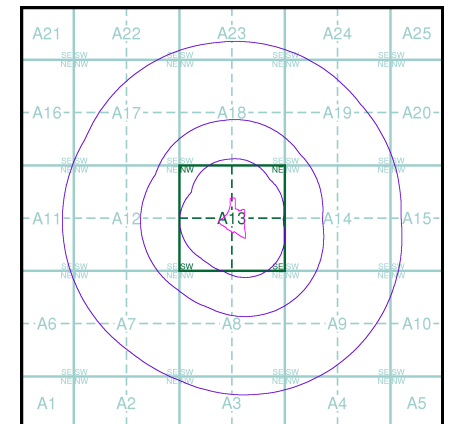
Source map scale - 1:10,560

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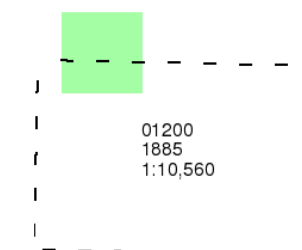
## Glamorganshire

Published 1885

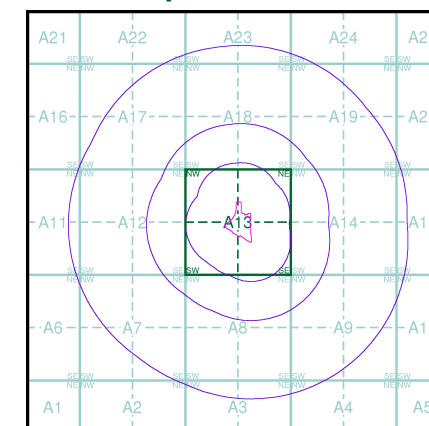
Source map scale - 1:10,560

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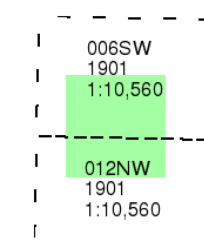
## Glamorganshire

Published 1901

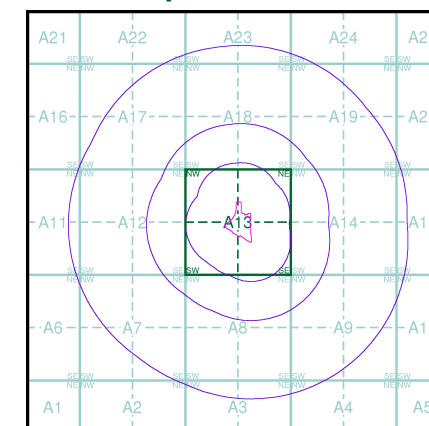
Source map scale - 1:10,560

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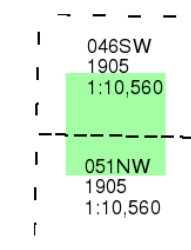
## Brecknockshire

Published 1905

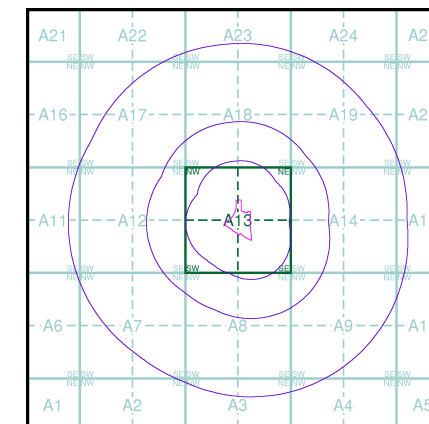
Source map scale - 1:10,560

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### Historical Map - Slice A



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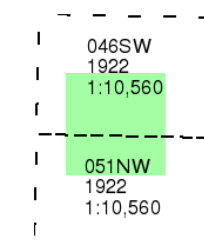
## Brecknockshire

Published 1922

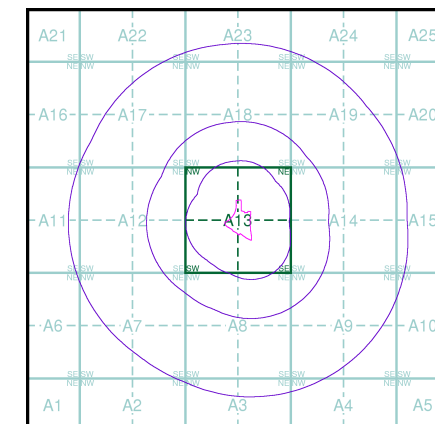
Source map scale - 1:10,560

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### Historical Map - Slice A



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## Brecknockshire

Published 1938 - 1951

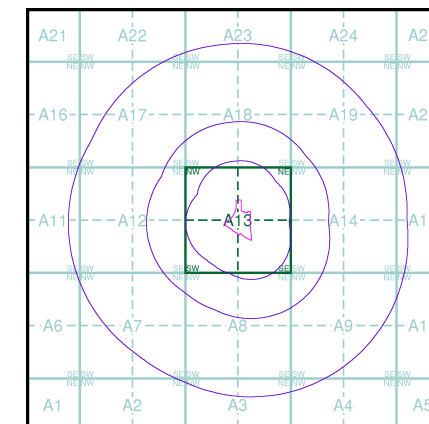
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|          |      |
|----------|------|
| 046SW    | 1951 |
| 1:10,560 |      |
| 051NW    | 1938 |
| 1:10,560 |      |

### Historical Map - Slice A

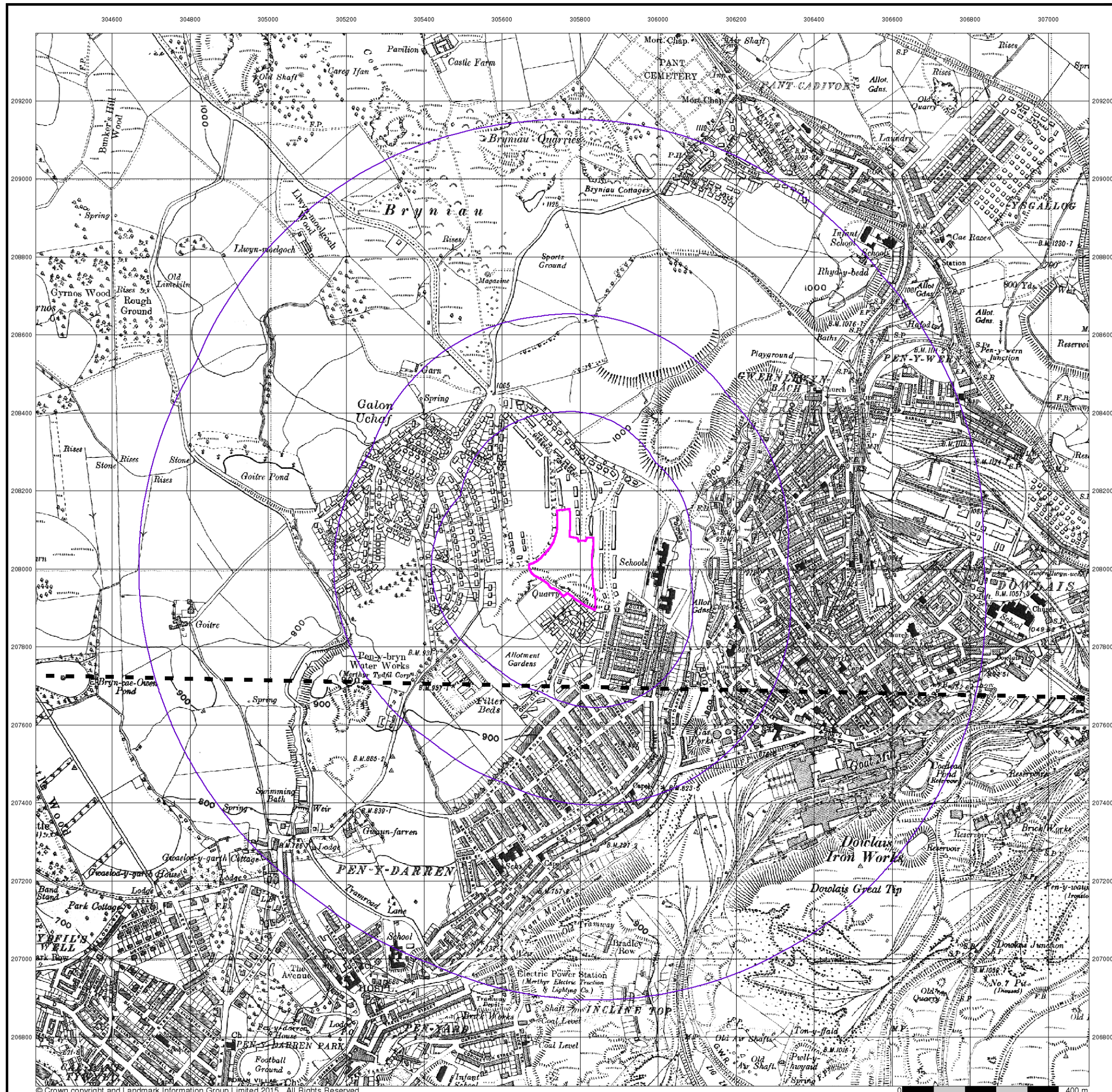


### Order Details

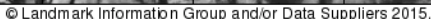
Order Number: 64329490\_1\_1  
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 Slice: A  
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 Search Buffer (m): 1000

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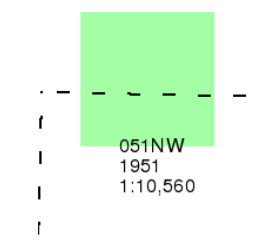
## Brecknockshire

Published 1951

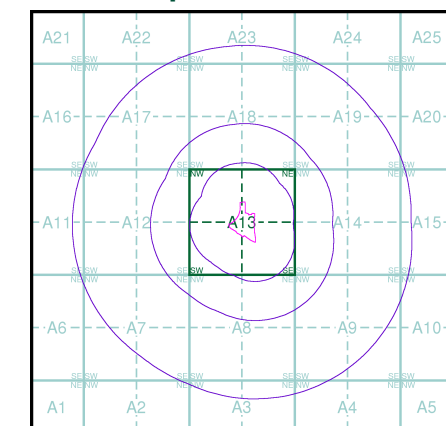
Source map scale - 1:10,560

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Slice: A  
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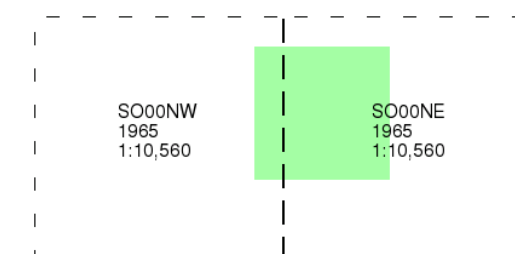
## Ordnance Survey Plan

Published 1965

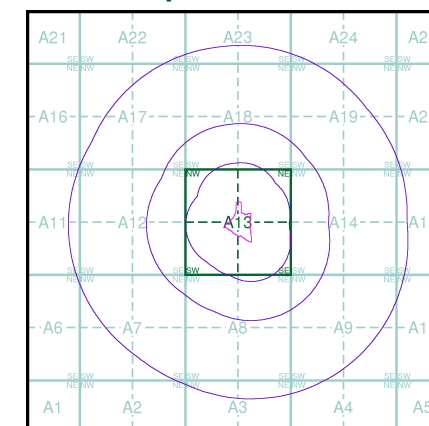
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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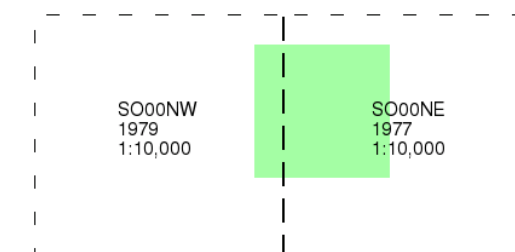
## Ordnance Survey Plan

Published 1977 - 1979

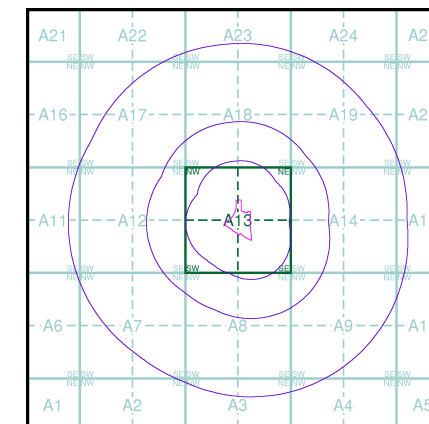
Source map scale - 1:10,000

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### Historical Map - Slice A



### Order Details

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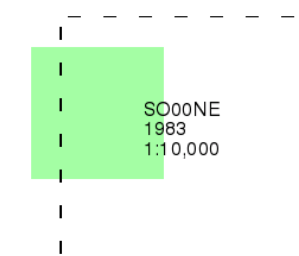
## Ordnance Survey Plan

Published 1983

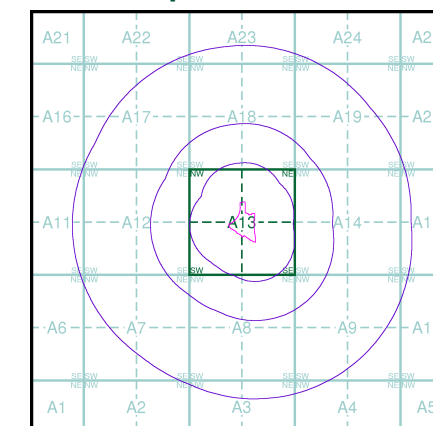
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

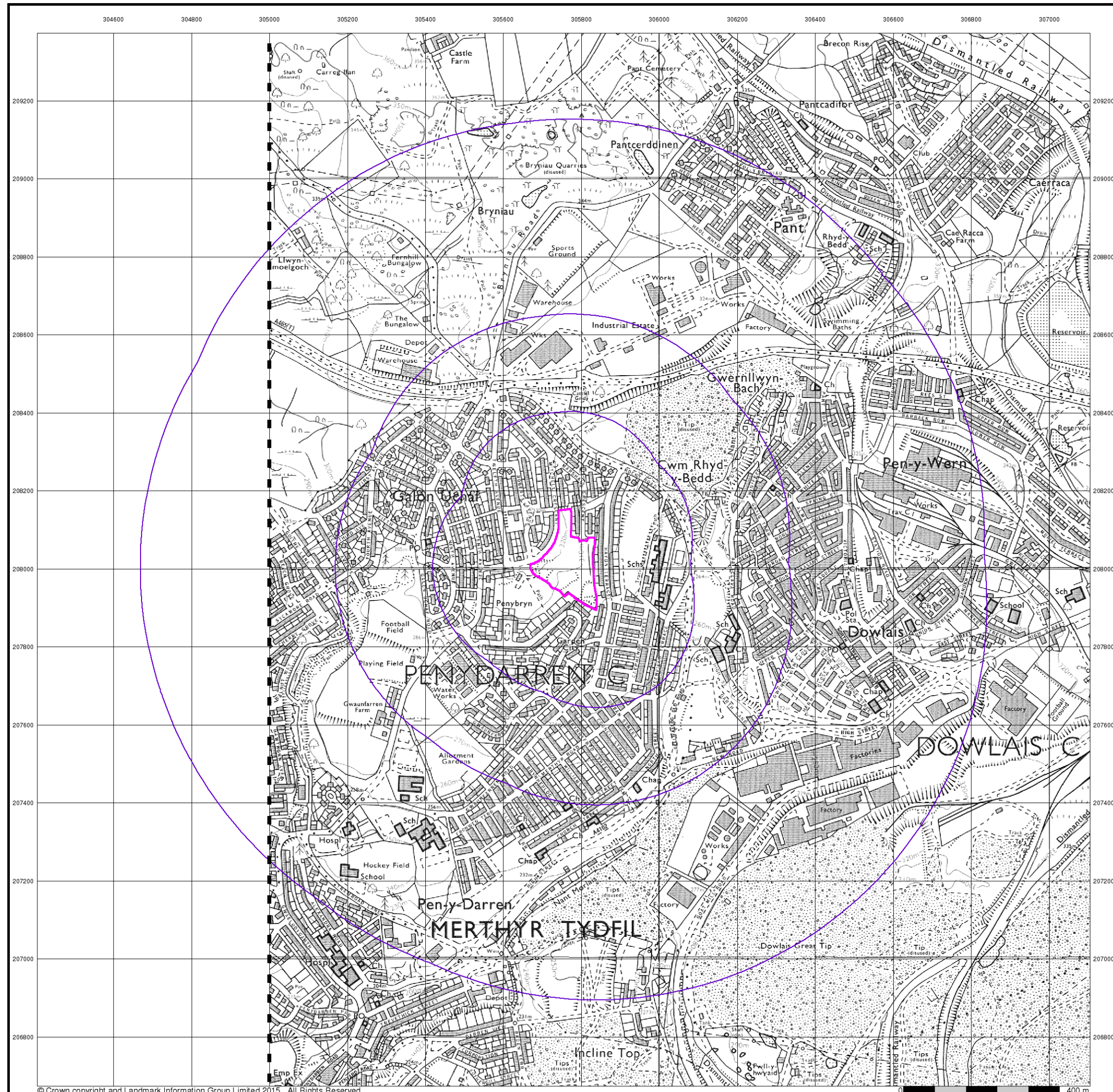
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

### Site Details

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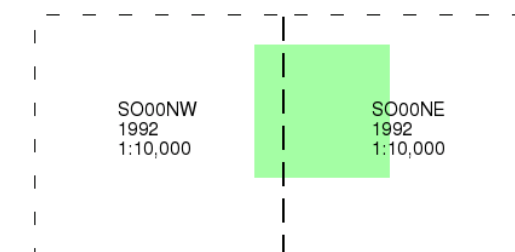
## Ordnance Survey Plan

Published 1992

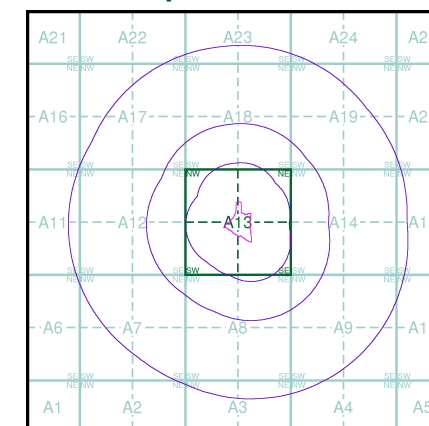
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

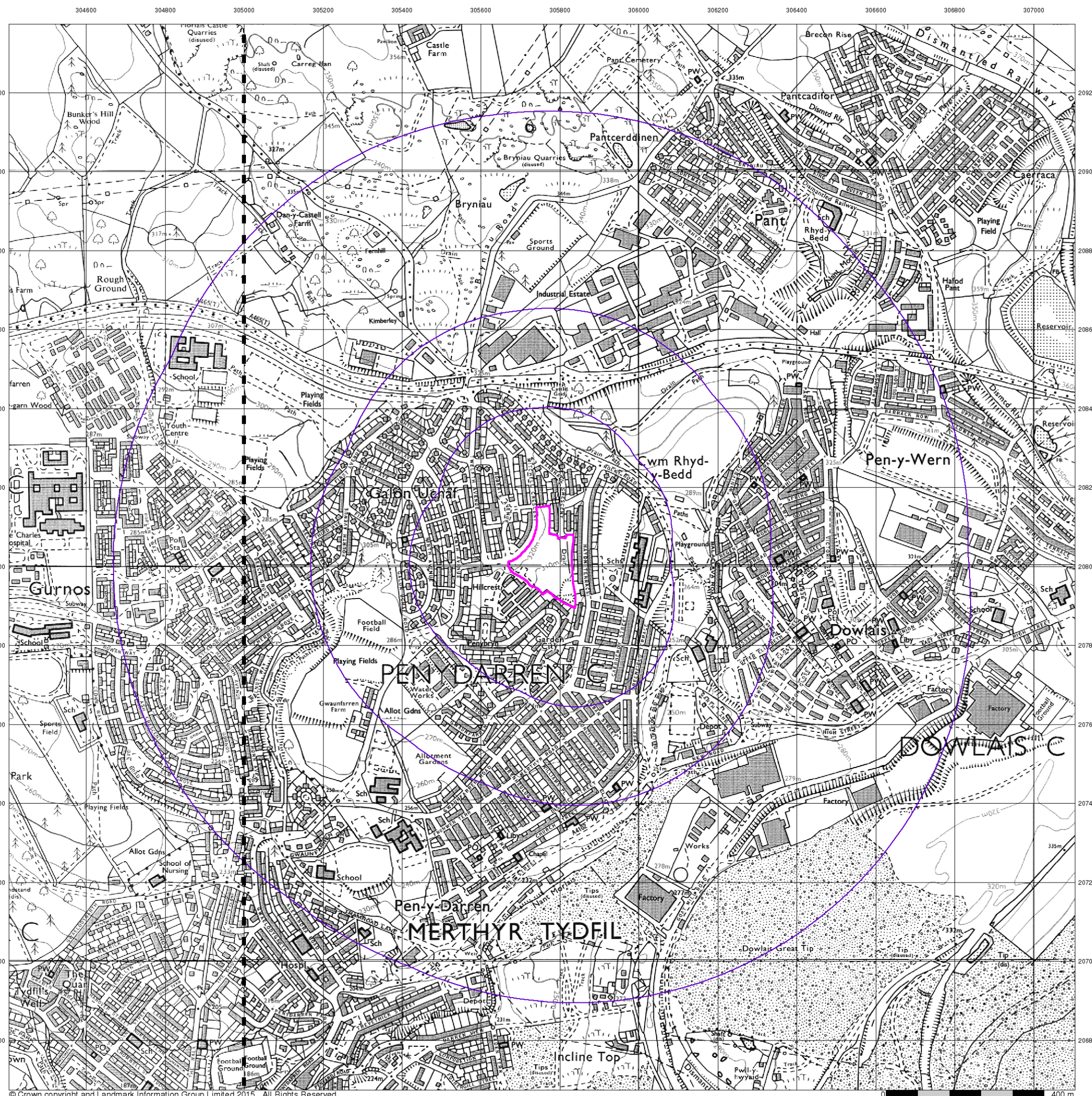
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

### Site Details

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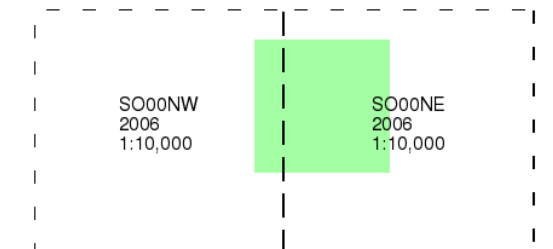
## 10k Raster Mapping

Published 2006

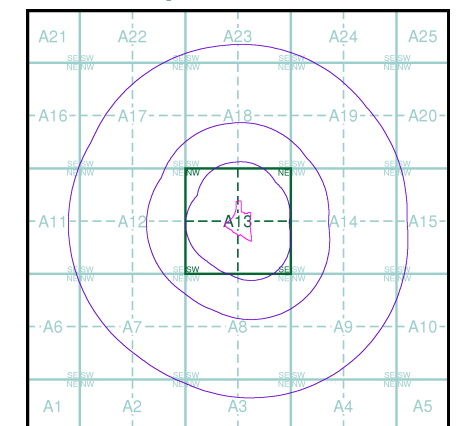
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

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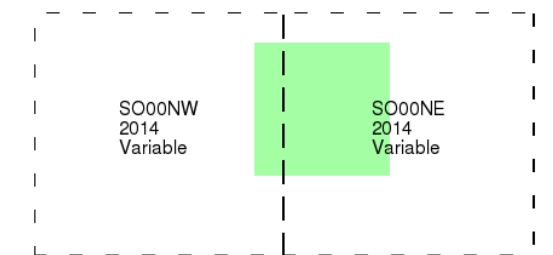
## VectorMap Local

Published 2014

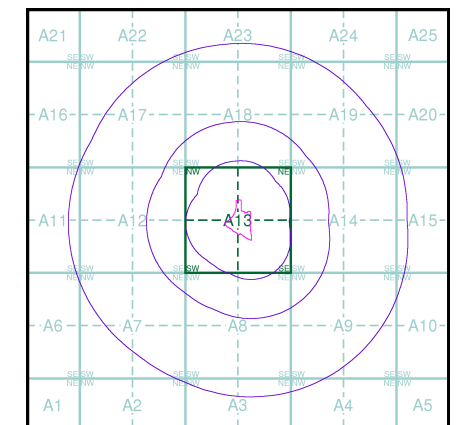
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

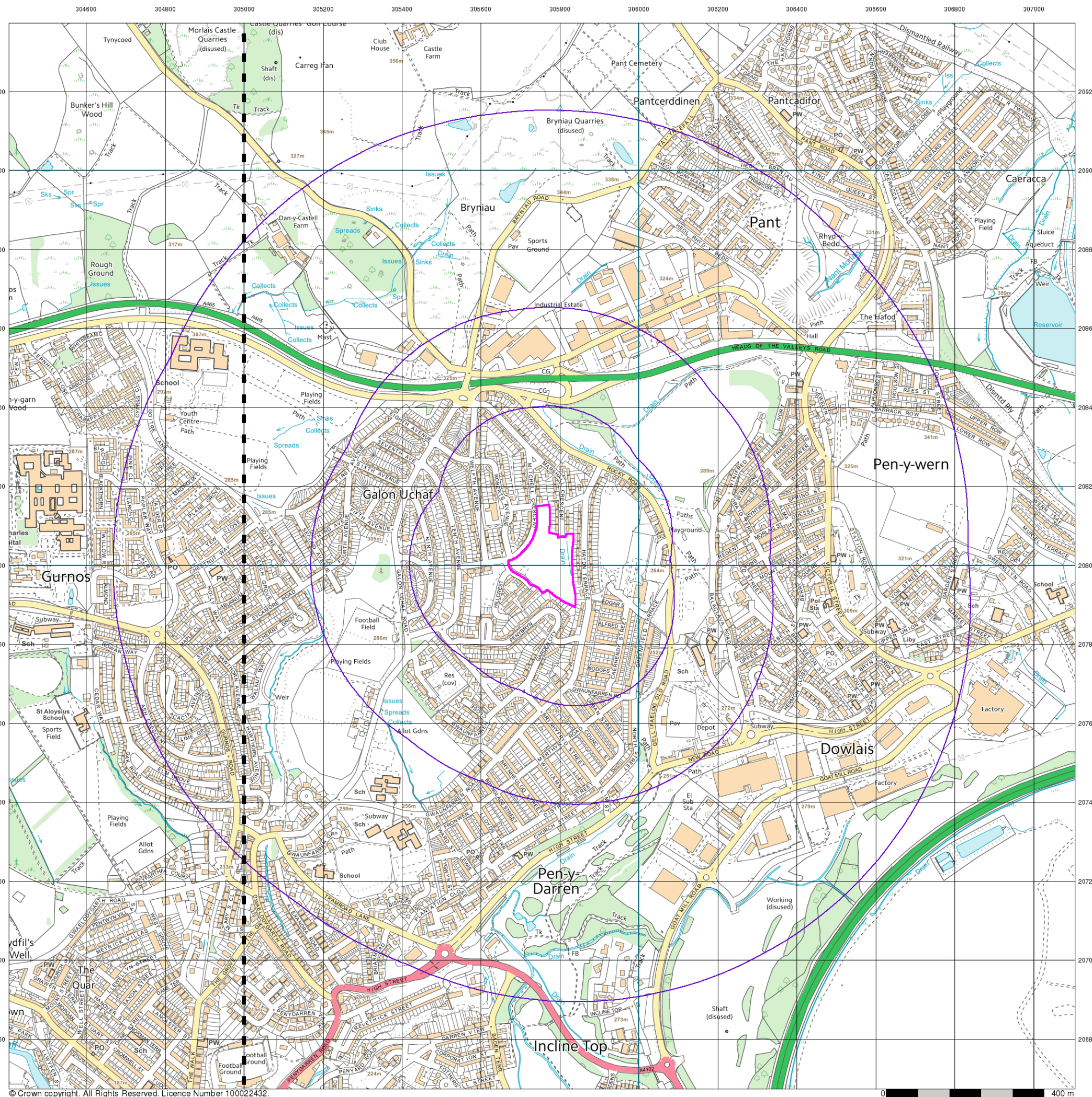
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

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# Historical Mapping Legends

## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



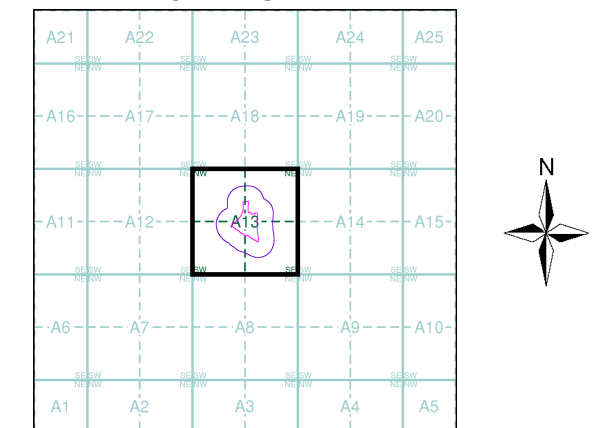
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

| Mapping Type                             | Scale   | Date        | Pg |
|------------------------------------------|---------|-------------|----|
| Glamorganshire                           | 1:2,500 | 1875 - 1882 | 2  |
| Brecknockshire                           | 1:2,500 | 1887        | 3  |
| Glamorganshire                           | 1:2,500 | 1900        | 4  |
| Brecknockshire                           | 1:2,500 | 1904        | 5  |
| Glamorganshire                           | 1:2,500 | 1919 - 1920 | 6  |
| Brecknockshire                           | 1:2,500 | 1919        | 7  |
| Ordnance Survey Plan                     | 1:1,250 | 1956 - 1957 | 8  |
| Additional SIMs                          | 1:1,250 | 1957 - 1988 | 9  |
| Ordnance Survey Plan                     | 1:2,500 | 1963 - 1964 | 10 |
| Ordnance Survey Plan                     | 1:1,250 | 1963 - 1972 | 11 |
| Ordnance Survey Plan                     | 1:2,500 | 1968 - 1986 | 12 |
| Supply of Unpublished Survey Information | 1:1,250 | 1975        | 13 |
| Additional SIMs                          | 1:1,250 | 1988 - 1989 | 14 |
| Additional SIMs                          | 1:1,250 | 1989        | 15 |
| Large-Scale National Grid Data           | 1:1,250 | 1993        | 16 |
| Large-Scale National Grid Data           | 1:1,250 | 1996        | 17 |

## Historical Map - Segment A13



## Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

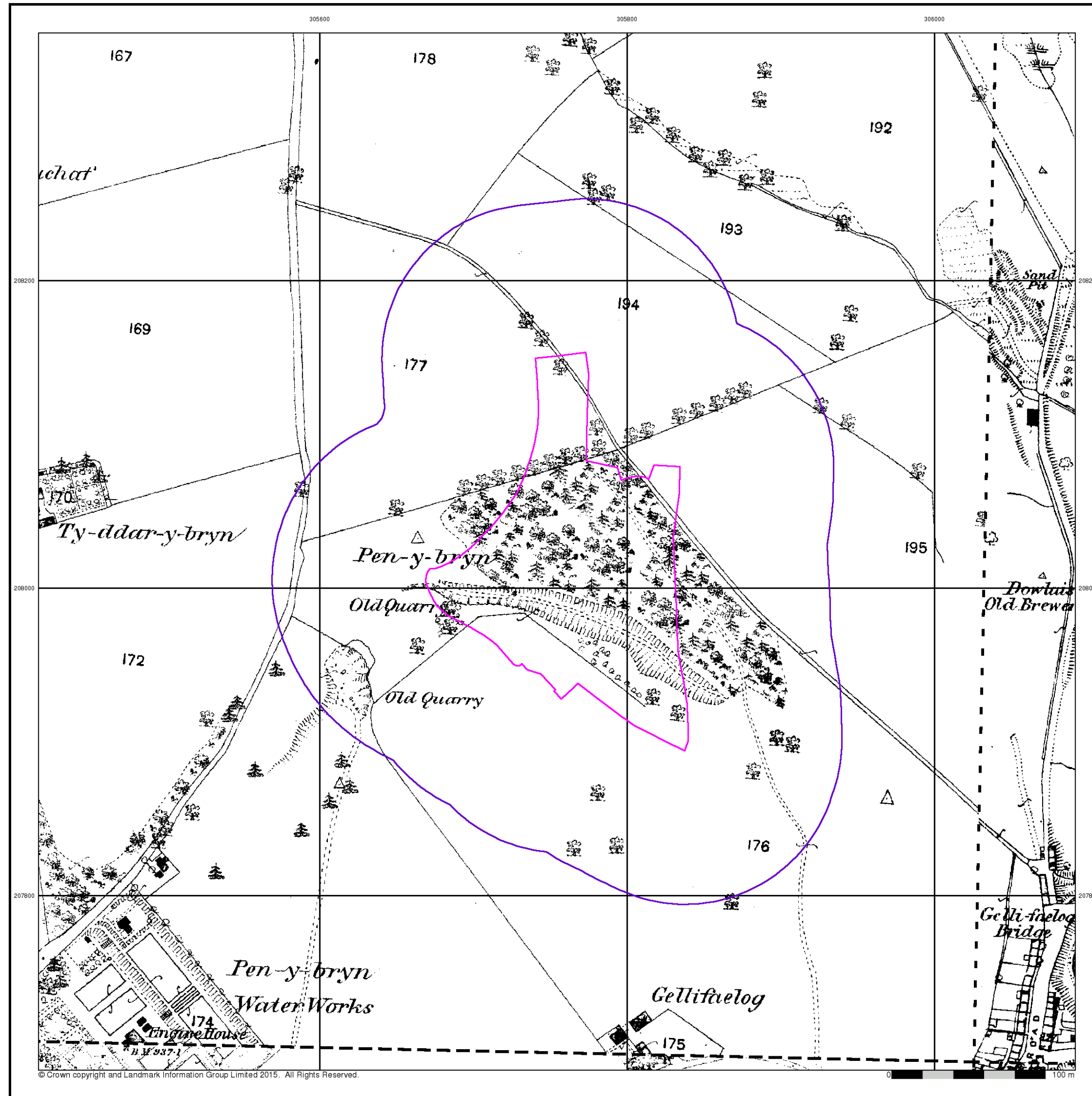
## Site Details

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Glamorganshire

Published 1875 - 1882

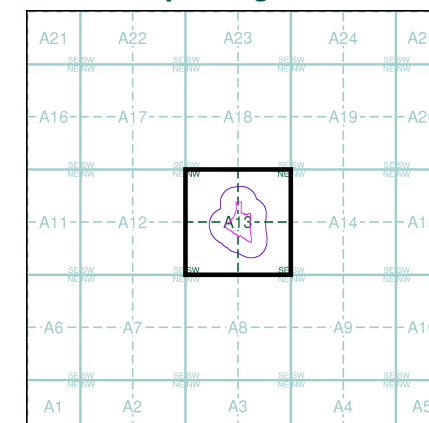
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 006_13<br>1875<br>1:2,500 | 006_14<br>1876<br>1:2,500 |
| 012_01<br>1875<br>1:2,500 | 012_02<br>1882<br>1:2,500 |

### Historical Map - Segment A13



### Order Details

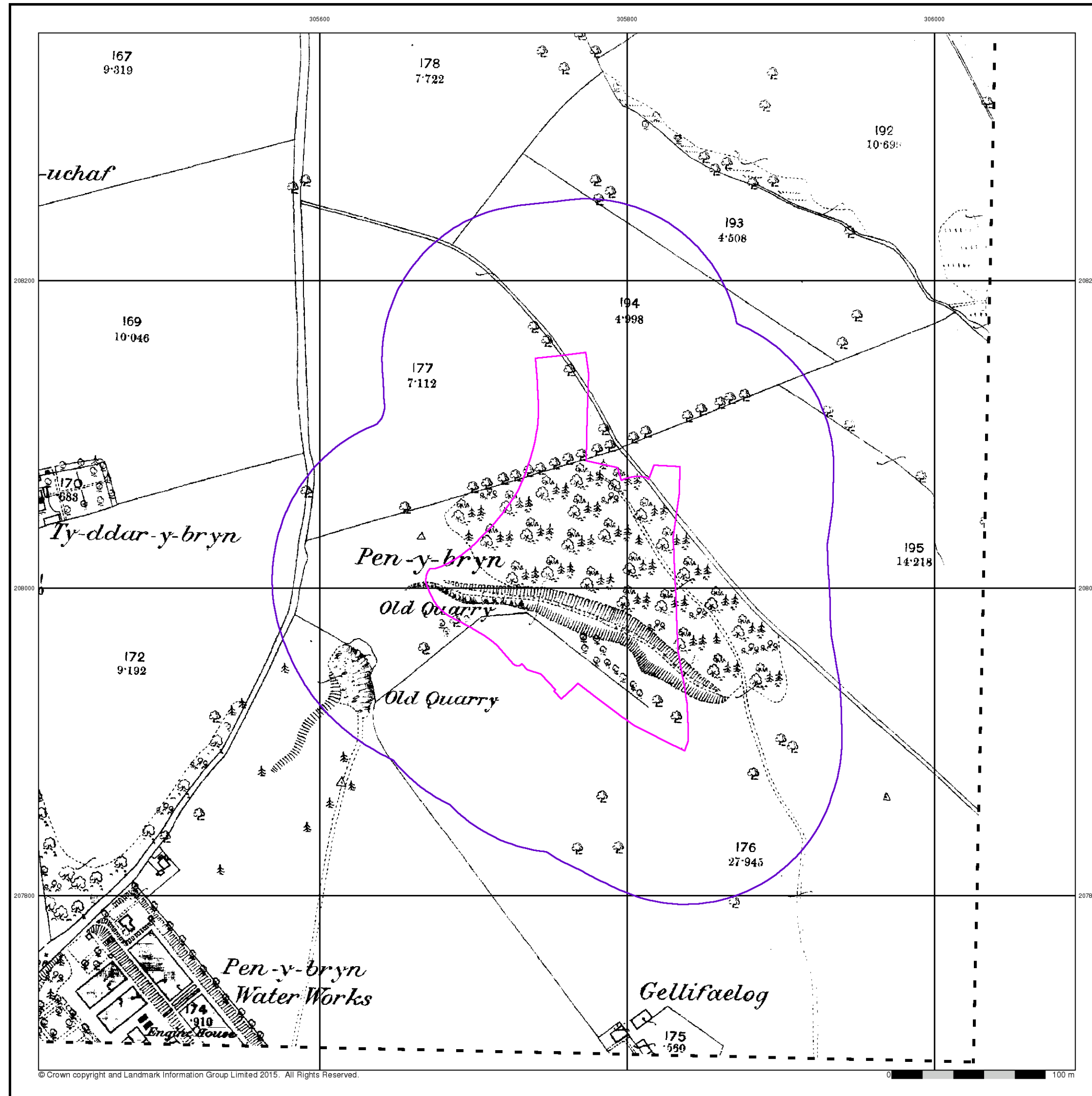
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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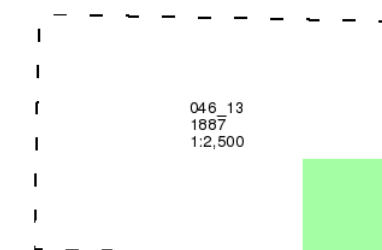
**Brecknockshire**

**Published 1887**

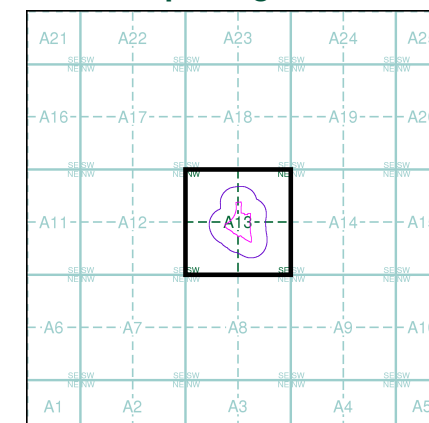
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

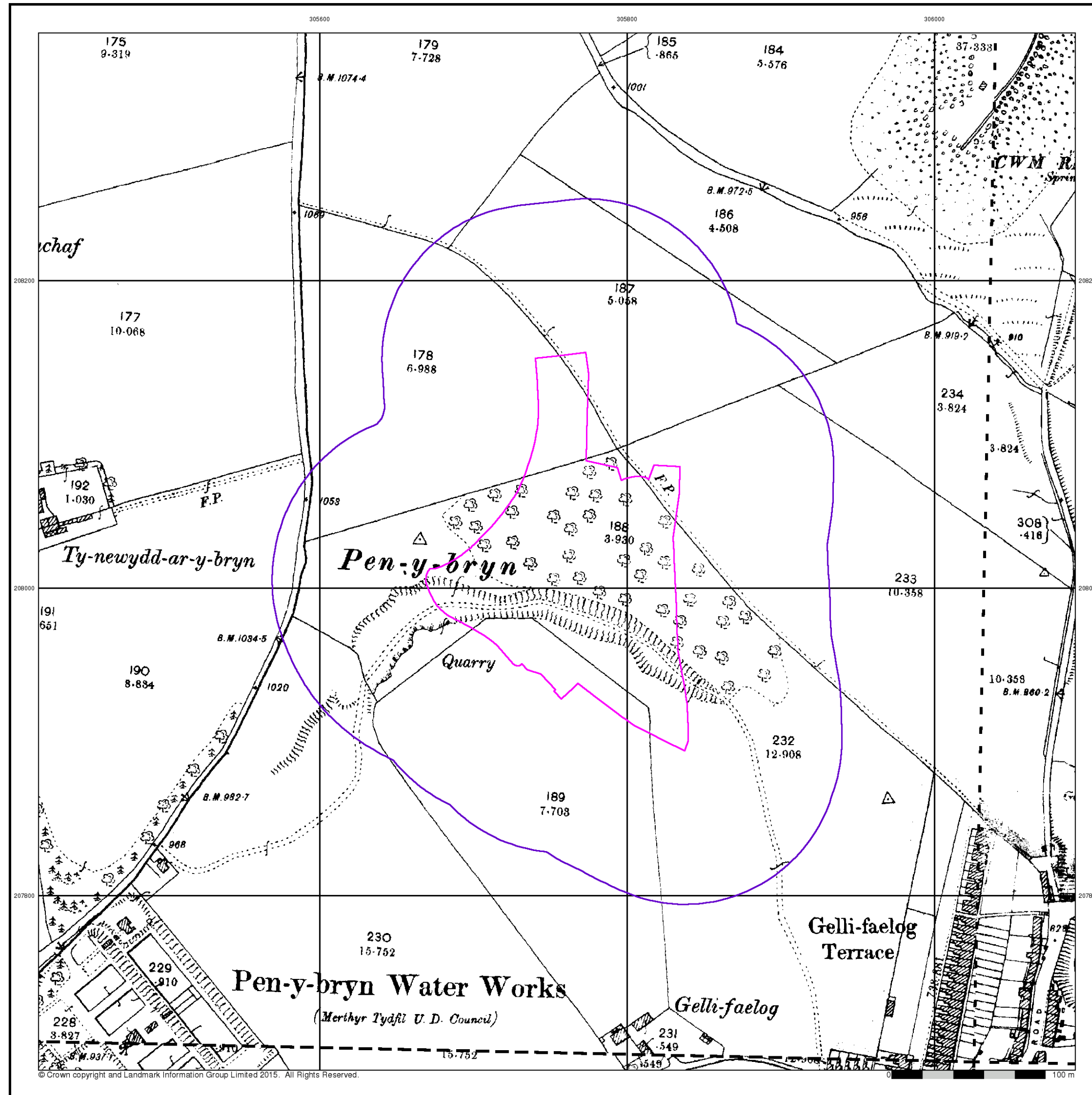
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

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Glamorganshire

Published 1900

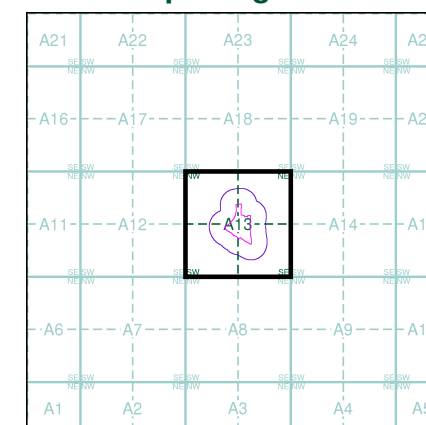
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 006_13<br>1900<br>1:2,500 | 006_14<br>1900<br>1:2,500 |
| 012_01<br>1900<br>1:2,500 | 012_02<br>1900<br>1:2,500 |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

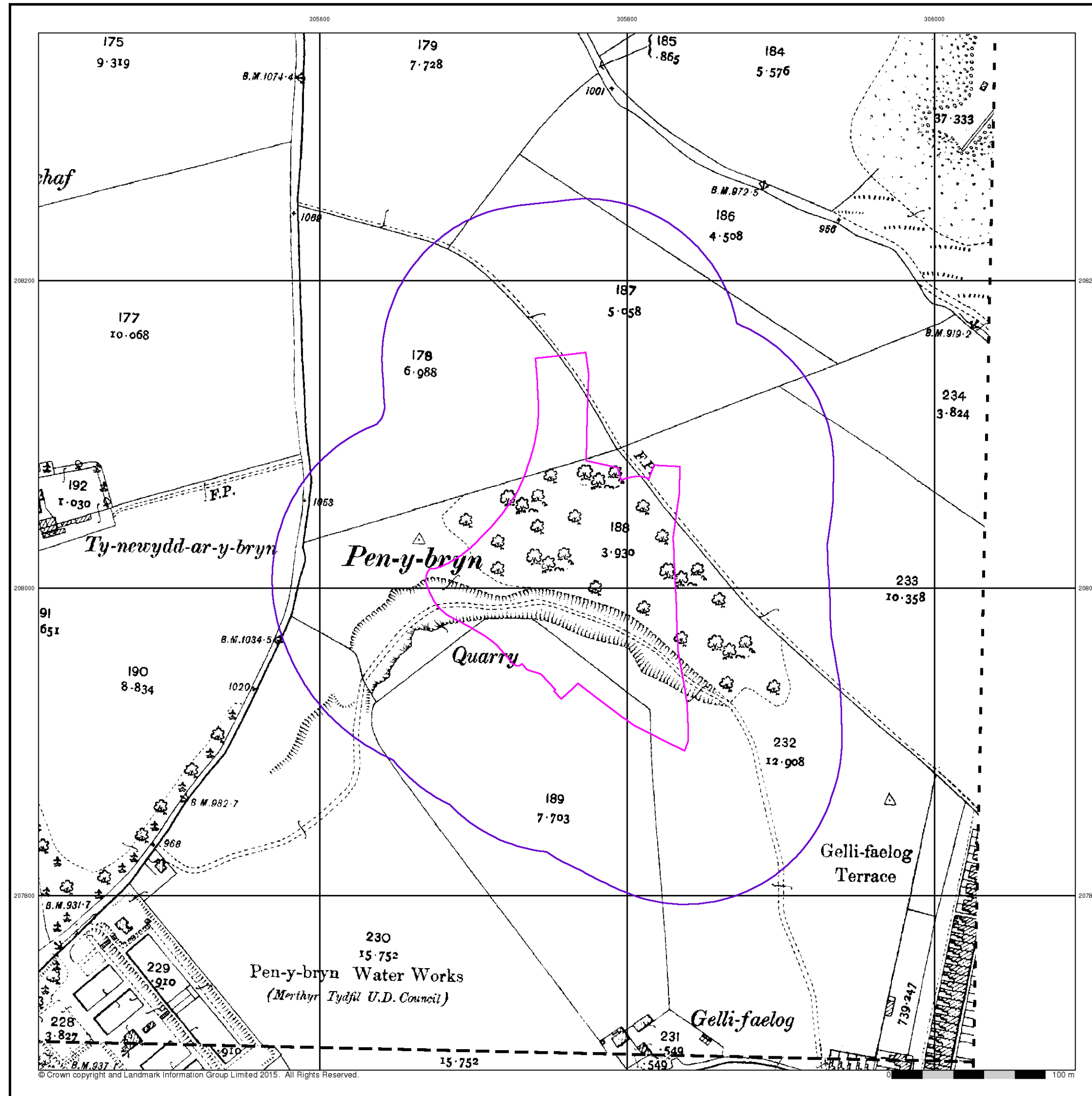
### Site Details

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Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





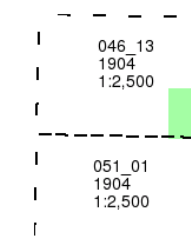
Brecknockshire

Published 1904

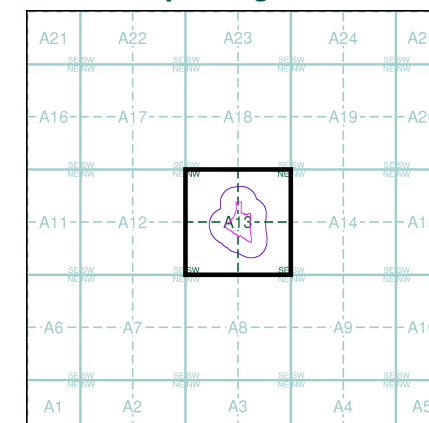
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

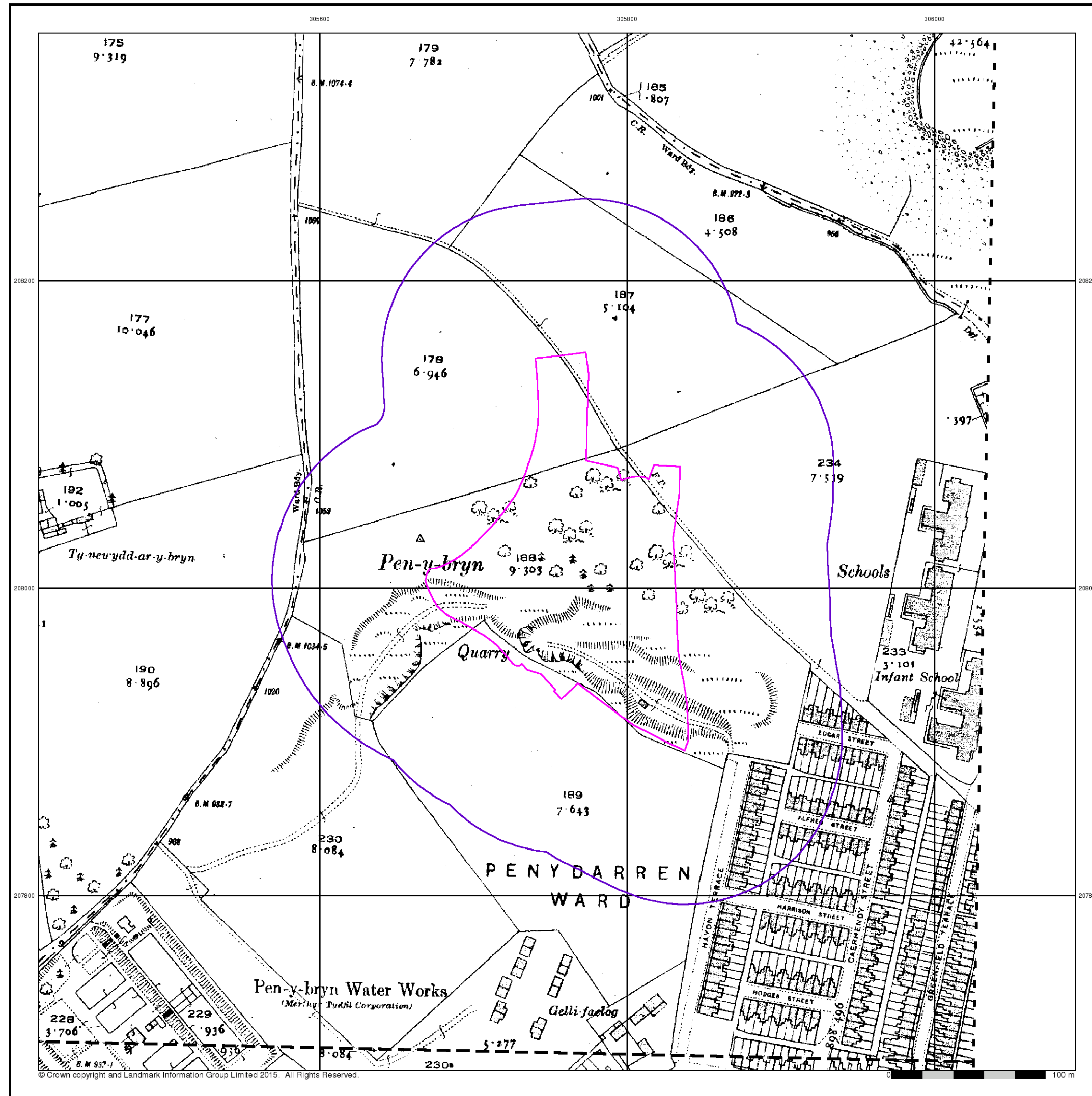
Site Details

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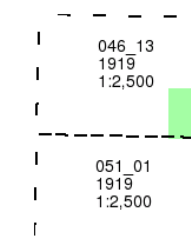
Brecknockshire

Published 1919

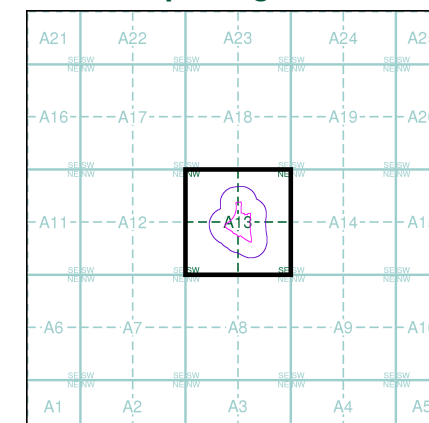
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

Site Details

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## Ordnance Survey Plan

Published 1956 - 1957

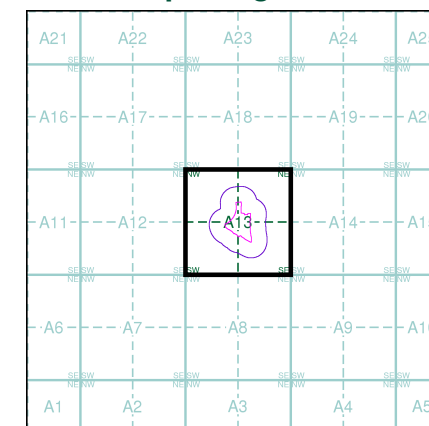
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|          |          |          |
|----------|----------|----------|
| SO0508SW | SO0508SE | SO0608SW |
| 1956     | 1956     | 1957     |
| 1:1,250  | 1:1,250  | 1:1,250  |
| SO0507NW | SO0507NE | SO0607NW |
| 1957     | 1957     | 1957     |
| 1:1,250  | 1:1,250  | 1:1,250  |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1963 - 1964

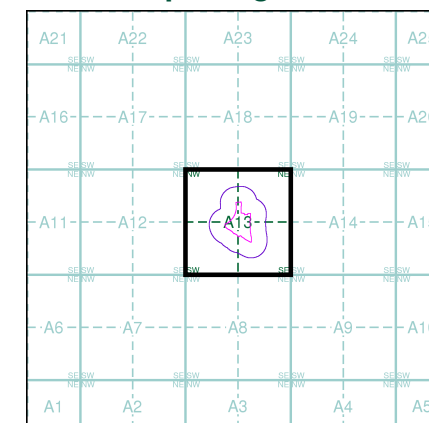
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|                          |                          |
|--------------------------|--------------------------|
| SO0508<br>1964<br>12,500 | SO0608<br>1963<br>12,500 |
| SO0507<br>1963<br>12,500 | SO0607<br>1963<br>12,500 |

### Historical Map - Segment A13



### Order Details

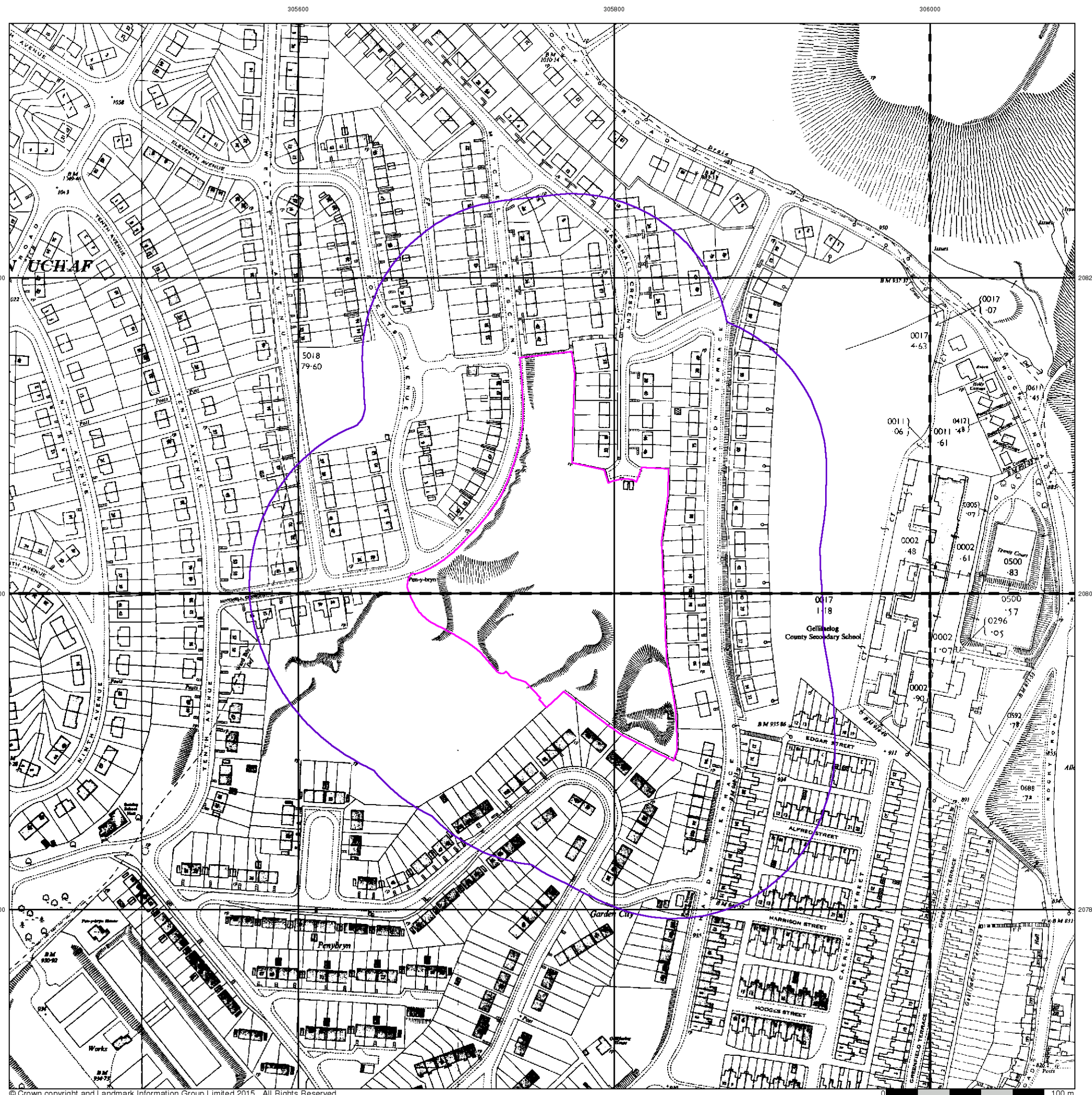
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1963 - 1972

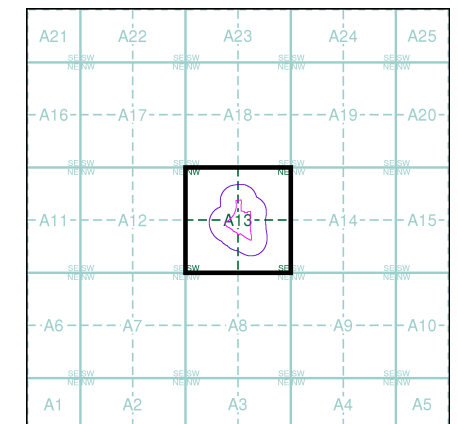
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| SO0508SW<br>1970<br>1:1,250 | SO0508SE<br>1969<br>1:1,250 |                             |
| SO0507NW<br>1963<br>1:1,250 | SO0507NE<br>1971<br>1:1,250 | SO0607NW<br>1972<br>1:1,250 |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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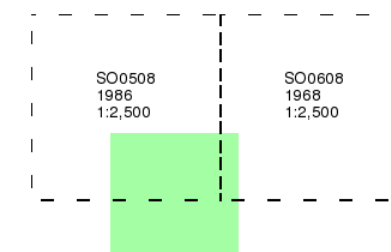
## Ordnance Survey Plan

Published 1968 - 1986

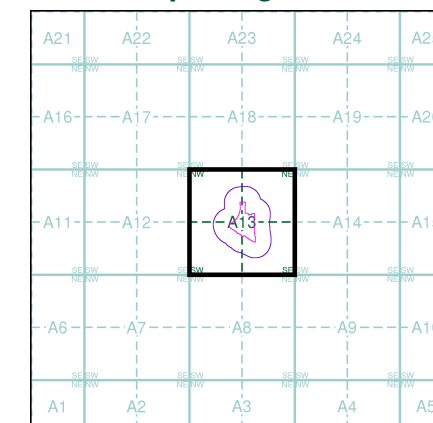
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

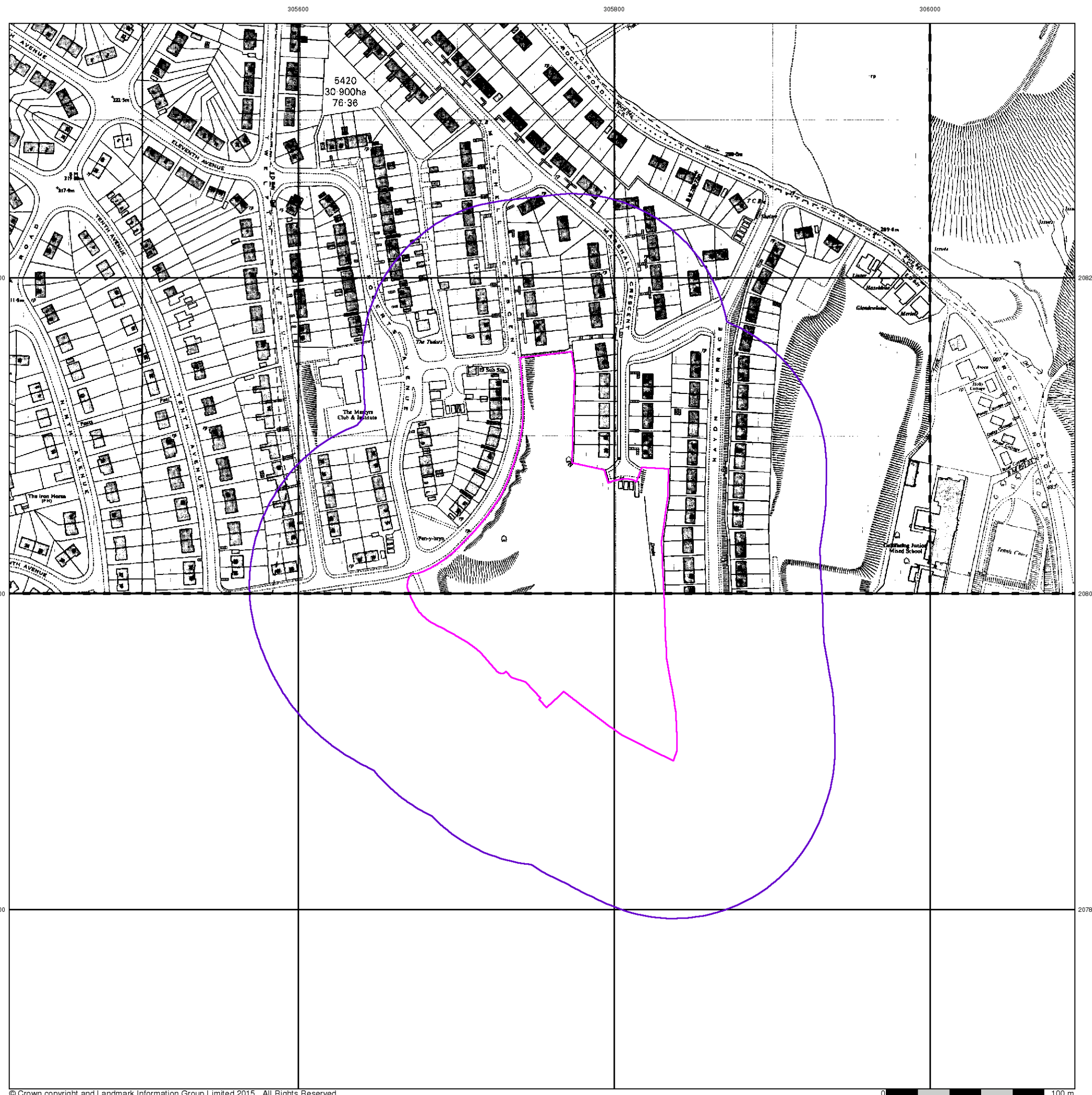
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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## Supply of Unpublished Survey Information

Published 1975

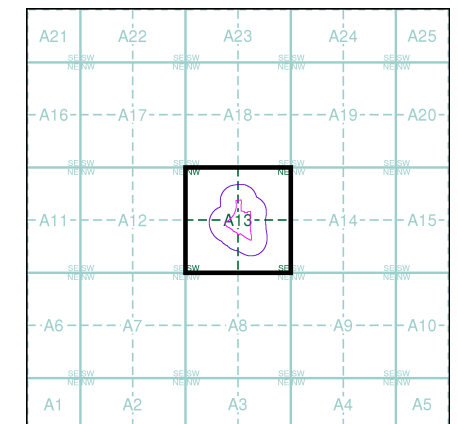
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|          |          |          |
|----------|----------|----------|
| SO0508SW | SO0508SE | SO0608SW |
| 1975     | 1975     | 1975     |
| 1:1,250  | 1:1,250  | 1:1,250  |
| SO0507NW | SO0507NE | SO0607NW |
| 1975     | 1975     | 1975     |
| 1:1,250  | 1:1,250  | 1:1,250  |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

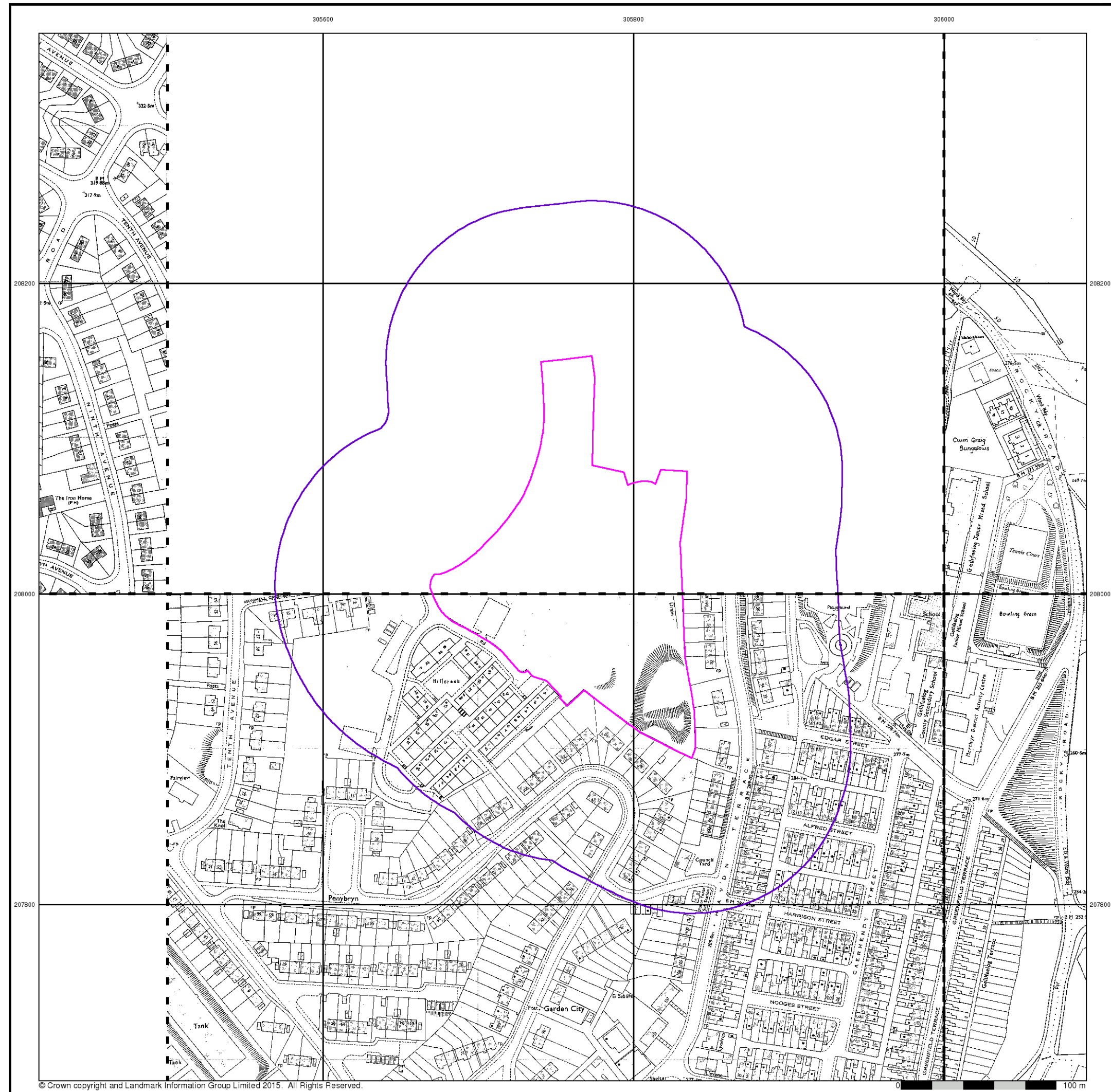
### Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ



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### Additional SIMs

Published 1988 - 1989

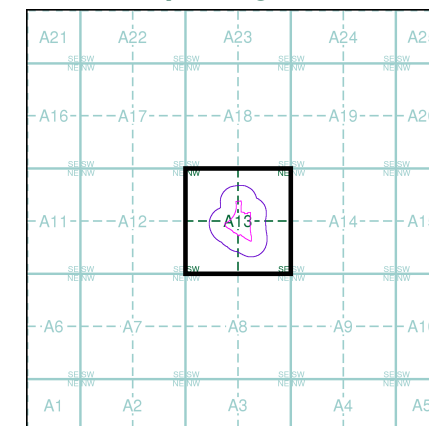
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|          |          |
|----------|----------|
| SO0508SW | SO0608SW |
| 1988     | 1988     |
| 1:1,250  | 1:1,250  |
| SO0507NE | SO0607NW |
| 1989     | 1989     |
| 1:1,250  | 1:1,250  |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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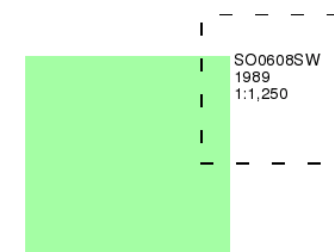
## Additional SIMs

**Published 1989**

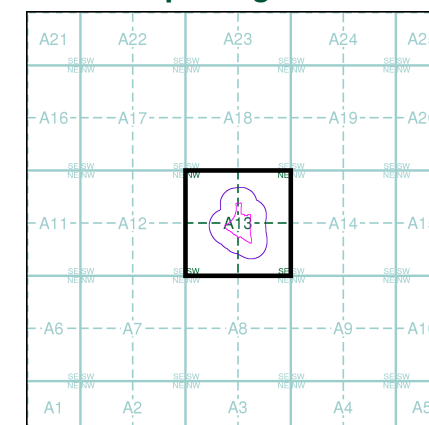
**Source map scale - 1:1,250**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



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Order Number: 64329490\_1\_1  
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## Large-Scale National Grid Data

Published 1993

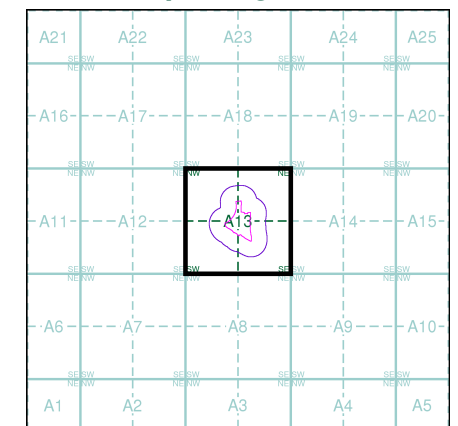
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|          |          |          |
|----------|----------|----------|
| SO0508SW | SO0508SE | SO0608SW |
| 1993     | 1993     | 1993     |
| 1:1,250  | 1:1,250  | 1:1,250  |
| SO0507NW | SO0507NE | SO0607NW |
| 1993     | 1993     | 1993     |
| 1:1,250  | 1:1,250  | 1:1,250  |

### Historical Map - Segment A13



### Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

### Site Details

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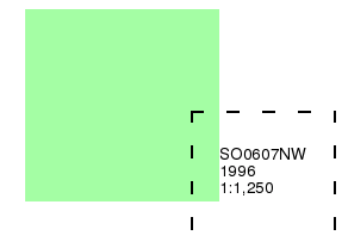
## Large-Scale National Grid Data

Published 1996

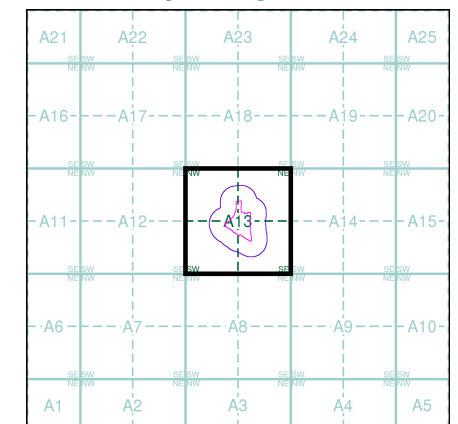
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

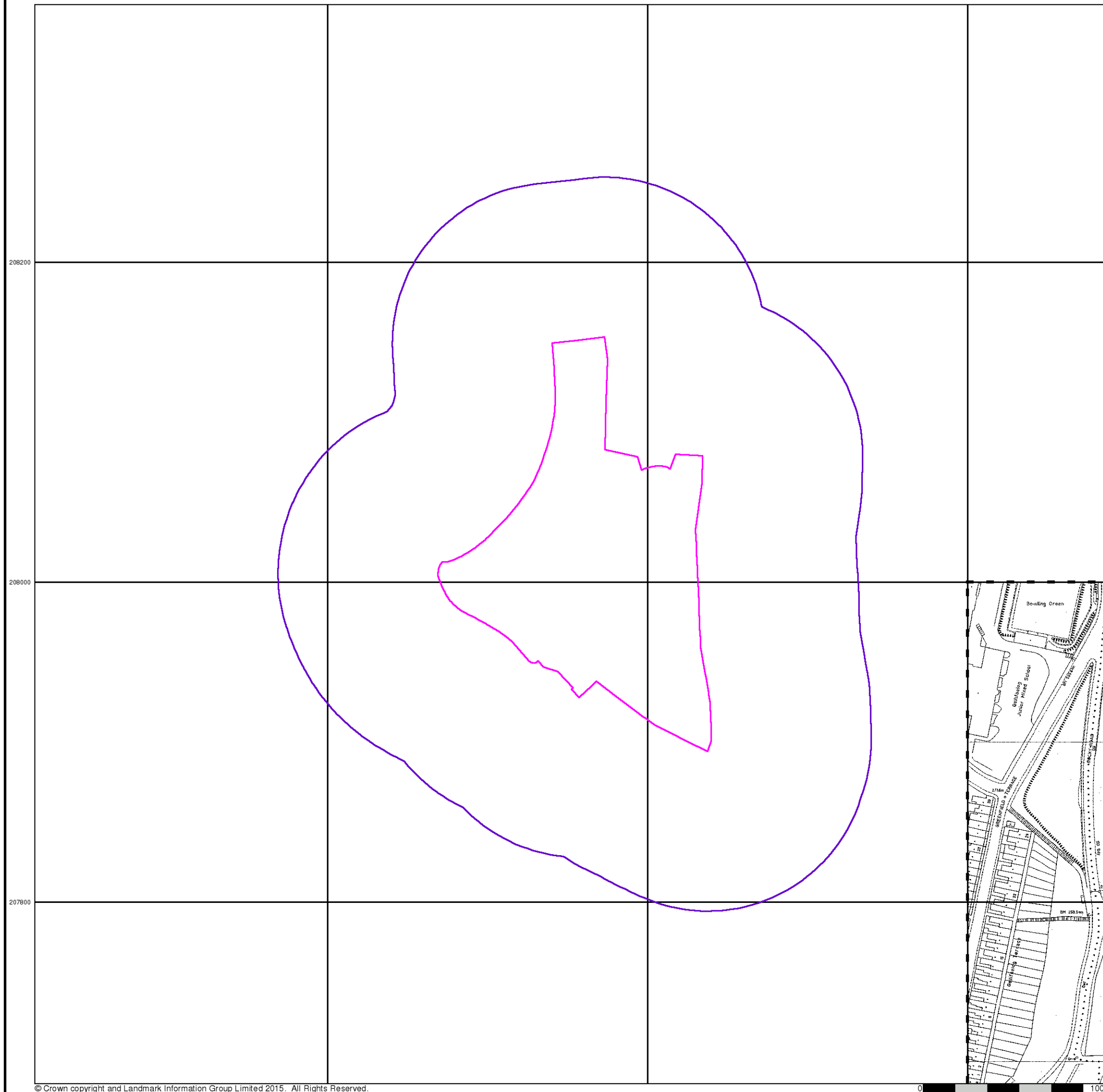
Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208020  
Slice: A  
Site Area (Ha): 2.2  
Search Buffer (m): 100

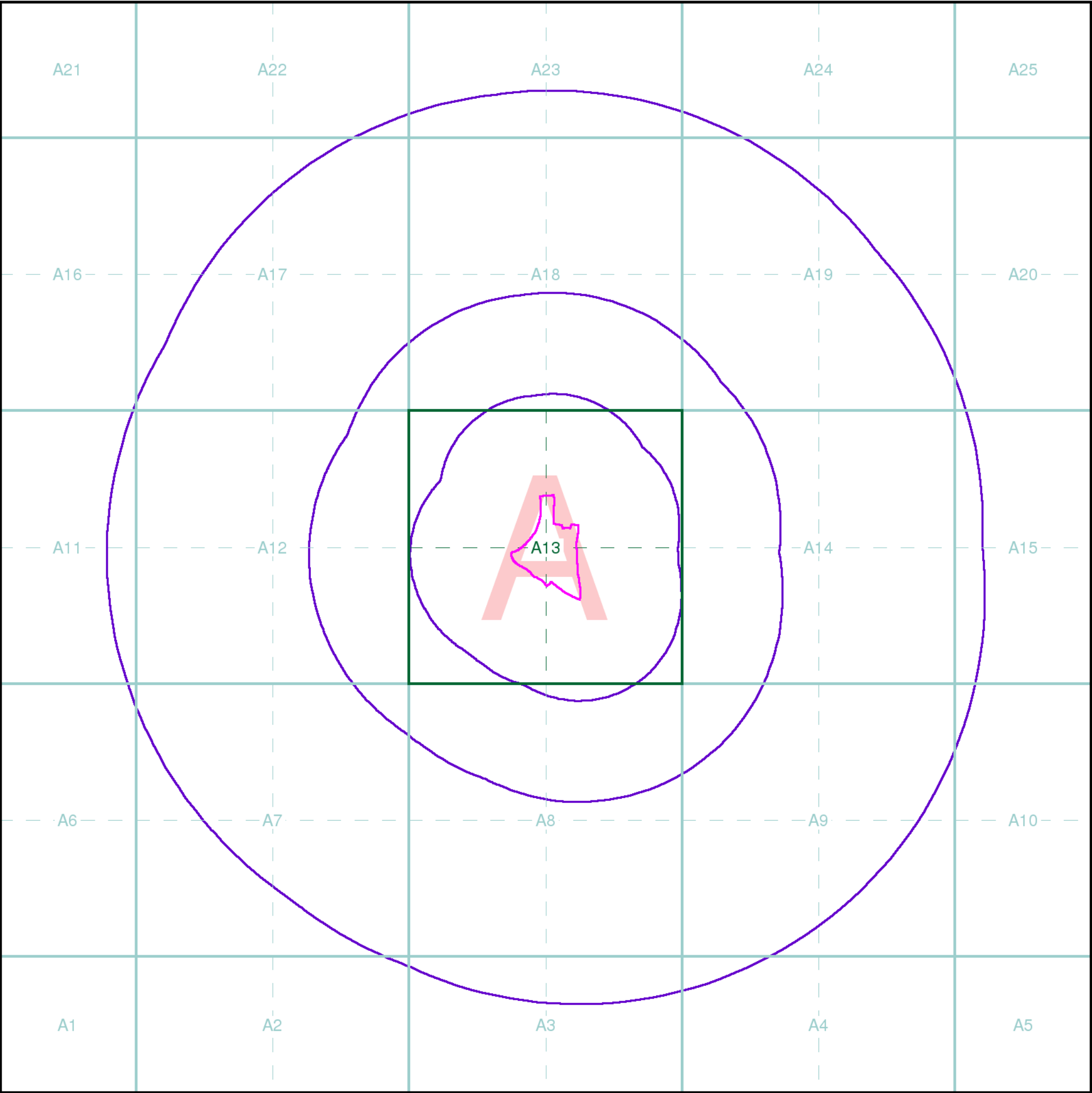
### Site Details

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

**Slice**  
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

**Segment**  
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

**Quadrant**  
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr T Walby, Terra Firma (Wales) Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details

Order Number: 64329490\_1\_1  
Customer Ref: 13082/TW  
National Grid Reference: 305770, 208010  
Site Area (Ha): 2.2  
Search Buffer (m): 1000

Site Details

Haydn Terrace, Merthyr Tydfil, CF47 9YJ

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**ANNEX B**  
**Risk Assessment Definitions**

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1<sup>st</sup> April 2000 in England and 1<sup>st</sup> July 2001 in Wales. A similar regime was introduced in Scotland on 14<sup>th</sup> July 2000.

Part 2A was introduced to achieve three overarching objectives:

- (a) To identify and remove unacceptable risks to human health and the environment.
- (b) To seek to ensure that contaminated land is made suitable for its current use.
- (c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' is:

"any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:

- (a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
- (b) Pollution of controlled waters is being, or is likely to be, caused."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Pollutant Linkage**'. A pollutant linkage requires three essential elements:

- (a) A **CONTAMINANT** (SOURCE) – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- (b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
- (c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is given by the Guidelines for Environmental Risk Assessment and Management (DEFRA *et al*, 2000):

*'Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.*

Model Procedures for the Management of Land Contamination – Contamination Land Report 11 (2004) defines a 'Hazard' as

*'a property or situation that in particular circumstances could lead to harm'.*

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.



## Classification of Consequence

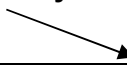
| Table A Classification of Consequence |                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification                        | Definition                                                                                                                                                                                                                                                                                                                     |
| Severe                                | <ul style="list-style-type: none"> <li>• Short term (acute) risk to human health likely to result in significant harm</li> <li>• Short term risk to controlled waters</li> <li>• Catastrophic damage to buildings/structures</li> <li>• Short term risk to an ecosystem or organism within the particular ecosystem</li> </ul> |
| Medium                                | <ul style="list-style-type: none"> <li>• Chronic damage to human health (long term risk)</li> <li>• Pollution of a sensitive water resource</li> <li>• A significant change in an ecosystem or organism within the ecosystem</li> </ul>                                                                                        |
| Mild                                  | <ul style="list-style-type: none"> <li>• Pollution of non-sensitive water resources</li> <li>• Significant damage to buildings/structures</li> <li>• Damage to sensitive buildings/structure/services or the environment</li> </ul>                                                                                            |
| Negligible                            | <ul style="list-style-type: none"> <li>• Harm (not necessarily significant) which may result in financial loss</li> <li>• Non-permanent health effects to humans (easily prevented by PPE for example)</li> <li>• Easily repairable effects of structural (building) damage</li> </ul>                                         |

## Classification of Probability

| Table B Classification of Probability |                                                                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification                        | Definition                                                                                                                                                                                                                                                                         |
| High Likelihood                       | <ul style="list-style-type: none"> <li>• There is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term.</li> <li>• Evidence of harm to the receptor</li> </ul>                                              |
| Likely                                | <ul style="list-style-type: none"> <li>• There is a complete pollution linkage which means that it is probable that an event will occur</li> <li>• The event is not inevitable but possible in short term and likely in the long term</li> </ul>                                   |
| Low Likelihood                        | <ul style="list-style-type: none"> <li>• There is a complete pollution linkage and circumstances are possible under which an event could occur</li> <li>• It is not certain that an event will occur in the long term, and it is less likely to occur in the short term</li> </ul> |
| Unlikely                              | <ul style="list-style-type: none"> <li>• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term</li> </ul>                                                                                         |

## Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a pollution linkage, the likely risk category can be determined as shown in **Table C** below.

| Table C Risk Assessment Matrix                                                                                   |                 |             |                |                |                |
|------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------|----------------|----------------|
| Increasing<br>acceptability<br> |                 | Consequence |                |                |                |
|                                                                                                                  |                 | Severe      | Medium         | Mild           | Negligible     |
| Probability                                                                                                      | High Likelihood | High risk   | High risk      | Medium risk    | Low risk       |
|                                                                                                                  | Likely          | High risk   | Medium risk    | Low risk       | Near zero risk |
|                                                                                                                  | Low Likelihood  | Medium risk | Low risk       | Low risk       | Near zero risk |
|                                                                                                                  | Unlikely        | Low risk    | Near zero risk | Near zero risk | Near zero risk |

## Description of Risks and Likely Actions

### High Risk

There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

### Medium Risk

It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

### Low Risk

It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

### Near Zero Risk

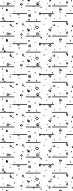
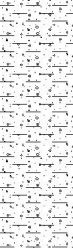
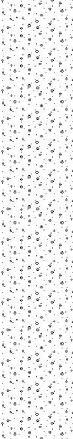
There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.



**ANNEX C  
Trial Pit Logs**



|                               |                      |                                           |                    |
|-------------------------------|----------------------|-------------------------------------------|--------------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -<br>Level: -                    | Date<br>23/02/2015 |
| Location: Merthyr Tydfil      |                      | Dimensions: 1.50m<br>Depth 2.00m<br>0.70m | Scale<br>1:15      |
| Client: The Urbanists         |                      |                                           | Logged By<br>TW    |

| Samples & In Situ Testing |      |         | Depth (m) | Level (m AOD) | Legend                                                                              | Stratum Description                                                                           |   |
|---------------------------|------|---------|-----------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|
| Depth (m)                 | Type | Results |           |               |                                                                                     |                                                                                               |   |
| 0.10                      | D    |         | 0.20      |               |    | Soft dark brown sandy CLAY with frequent roots and rootlets. TOPSOIL                          |   |
|                           |      |         | 0.60      |               |    | Soft to firm brown orange sandy gravelly CLAY.                                                |   |
|                           |      |         | 1.10      |               |    | Firm brown sandy gravelly CLAY.                                                               | 1 |
| 1.50                      | D    |         | 2.00      |               |  | Weathered sandstone recovered as a medium dense to dense sandy tabular GRAVEL. Difficult dig. |   |
|                           |      |         |           |               |                                                                                     | Trialpit Complete at 2.00 m                                                                   | 2 |

|                                           |                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------|
| Remarks:                                  |  |
| Groundwater: Groundwater seepage at 0.6m. |                                                                                       |



Project Name

Haydn Terrace

Project No.

13082

Co-ords: -

Level: -

Date

23/02/2015

Location: Merthyr Tydfil

Dimensions: 1.50m

Depth

2.50m

0.70m



Scale

1:15

Logged By

TW

Client: The Urbanists

**Samples & In Situ Testing**

| Depth (m) | Type | Results | Depth (m) | Level (m AOD) | Legend                                                                             | Stratum Description                                                                            |
|-----------|------|---------|-----------|---------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1.50      | D    |         | 0.10      |               |   | Soft dark brown sandy CLAY with frequent roots and rootlets. TOPSOIL                           |
|           |      |         |           |               |   | Soft grey sandy CLAY.                                                                          |
|           |      |         | 0.40      |               |  | Soft to firm becoming firm with depth brown sandy gravelly CLAY with occasional large cobbles. |
|           |      |         | 2.50      |               |                                                                                    | Trialpit Complete at 2.50 m                                                                    |

Remarks:

Groundwater: None encountered.





|                               |  |                      |                                           |                    |
|-------------------------------|--|----------------------|-------------------------------------------|--------------------|
| Project Name<br>Haydn Terrace |  | Project No.<br>13082 | Co-ords: -<br>Level: -                    | Date<br>23/02/2015 |
| Location: Merthyr Tydfil      |  |                      | Dimensions: 1.50m<br>Depth 2.00m<br>0.70m | Scale<br>1:15      |
| Client: The Urbanists         |  |                      |                                           | Logged By<br>TW    |

| Samples & In Situ Testing |      |         | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                   |  |
|---------------------------|------|---------|-----------|---------------|--------|-------------------------------------------------------------------------------------------------------|--|
| Depth (m)                 | Type | Results |           |               |        |                                                                                                       |  |
| 0.10                      | D    |         | 0.15      |               |        | Soft dark brown sandy CLAY with frequent roots and rootlets. TOPSOIL                                  |  |
|                           |      |         |           |               |        | Soft to firm brown orange sandy gravelly CLAY.                                                        |  |
|                           |      |         | 0.50      |               |        | Firm brown sandy gravelly CLAY with occasional cobbles and boulders. Boulders up to 0.5m in diameter. |  |
| 1.50                      | D    |         | 2.00      |               |        | Trialpit Complete at 2.00 m                                                                           |  |

Remarks:

Groundwater: Groundwater seepage at 0.6m.



Project Name  
Haydn Terrace

Project No.  
13082

Co-ords: -  
Level: -

Date  
23/02/2015

Location: Merthyr Tydfil

Dimensions: 1.50m

Depth  
1.50m

0.70m

Scale  
1:15

Client: The Urbanists

Logged By  
TW

**Samples & In Situ Testing**

| Depth (m) | Type | Results | Depth (m) | (m AOD) | Legend                                                                             | Stratum Description                                                                                                                                                                 |
|-----------|------|---------|-----------|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.00      | D    |         | 0.10      |         |   | MADE GROUND: Loose ashy SAND and GRAVEL with metal fragments. Recent bonfires and flytipping.                                                                                       |
|           |      |         |           |         |   | MADE GROUND: Firm brown sandy gravelly CLAY with occasional cobbles. reworked natural ground.                                                                                       |
|           |      |         | 0.50      |         |  | Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, china, bone and metal. Rare green gravels, possible slag. Very strong persistant volatile organic odour. |
|           |      |         | 1.50      |         |                                                                                    | Trialpit Complete at 1.50 m                                                                                                                                                         |
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Remarks: Trial pit terminated due to very strong persistent volatile organic odour.

Groundwater: None encountered.





Project Name

Haydn Terrace

Project No.

13082

Co-ords: -

Level: -

Date

23/02/2015

Location: Merthyr Tydfil

Dimensions: 1.50m

Depth

1.10m

0.70m

Scale

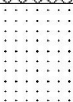
1:15

Logged By

TW

Client: The Urbanists

**Samples & In Situ Testing**

| Depth (m) | Type | Results | Depth (m) | Level (m AOD) | Legend                                                                            | Stratum Description                                                                         |
|-----------|------|---------|-----------|---------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|           |      |         | 0.50      |               |  | MADE GROUND: Soft dark brown sandy CLAY with frequent roots and rootlets. Reworked topsoil. |
|           |      |         | 0.90      |               |  | MADE GROUND: Dense brown slightly clayey gravelly COBBLES and BOULDERS.                     |
|           |      |         | 1.10      |               |  | Moderately strong SANDSTONE. Difficult dig. Recovered as cobbles and gravels.               |
|           |      |         |           |               |                                                                                   | Trialpit Complete at 1.10 m                                                                 |

Remarks:

Groundwater: None encountered.



|                               |                      |                                           |                    |
|-------------------------------|----------------------|-------------------------------------------|--------------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -<br>Level: -                    | Date<br>23/02/2015 |
| Location: Merthyr Tydfil      |                      | Dimensions: 1.50m<br>Depth 1.50m<br>0.70m | Scale<br>1:15      |
| Client: The Urbanists         |                      |                                           | Logged By<br>TW    |

| Samples & In Situ Testing |      |         | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                         |   |
|---------------------------|------|---------|-----------|---------------|--------|---------------------------------------------------------------------------------------------|---|
| Depth (m)                 | Type | Results |           |               |        |                                                                                             |   |
|                           |      |         | 0.20      |               |        | MADE GROUND: Soft dark brown sandy CLAY with frequent roots and rootlets. Reworked topsoil. |   |
|                           |      |         |           |               |        | MADE GROUND: Dense brown slightly clayey gravelly COBBLES and BOULDERS.                     |   |
|                           |      |         | 1.00      |               |        | Moderately strong SANDSTONE. Difficult dig. Recovered as cobbles and gravels.               | 1 |
|                           |      |         | 1.50      |               |        | Trialpit Complete at 1.50 m                                                                 | 2 |

Remarks:

Groundwater: None encountered.



Project Name  
Haydn Terrace

Project No.  
13082

Co-ords: -  
Level: -

Date  
23/02/2015

Location: Merthyr Tydfil

Dimensions: 1.50m

Depth  
1.70m

0.70m


Scale  
1:15

Client: The Urbanists

Logged By  
TW

**Samples & In Situ Testing**

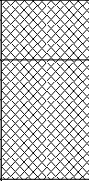
| Depth (m) | Type | Results | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                                                              |
|-----------|------|---------|-----------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.10      |      |         |           |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles and frequent roots and rootlets.                                             |
|           |      |         |           |               |        | MADE GROUND: Firm brown sandy gravelly CLAY with occasional cobbles. Reworked natural ground.                                                    |
| 1.10      |      |         |           |               |        |                                                                                                                                                  |
|           |      |         |           |               |        | MADE GROUND: Soft grey sandy CLAY. Probable clay capping.                                                                                        |
| 1.50      |      |         |           |               |        |                                                                                                                                                  |
|           |      |         |           |               |        | Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, china, bone and metal. Very strong persistent volatile organic odour. |
| 1.70      |      |         |           |               |        |                                                                                                                                                  |
|           |      |         |           |               |        | Trialpit Complete at 1.70 m                                                                                                                      |

Remarks: Trial pit terminated due to very strong persistent volatile organic odour.

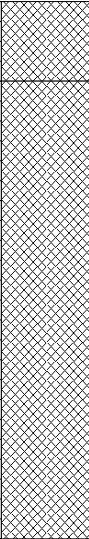
Groundwater: None encountered.



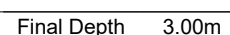


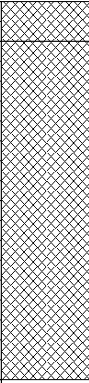
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                          |      | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors |                       | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |                                                                                                                                                                                                                                                                                               | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |  | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |  | Borehole No.<br><b>TP01/2</b><br>Sheet 1 of 1                                       |  |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                    |      |                                                                                          |                       | Project No.<br>17412-CA                                                              |                                                                                                                                                                                                                                                                                               | Date<br>01/05/2025 to 01/05/2025                                                 |  |                                                                                            |  | Hole Type<br>TP                                                                     |  |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                             |      |                                                                                          |                       | Co-ords<br>E:<br>N:<br>L:                                                            |                                                                                                                                                                                                                                                                                               | Water Strike Details<br>Depth Strike<br>Remarks                                  |  |                                                                                            |  | Logged By<br>FL                                                                     |  |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                             |      |                                                                                          |                       | Plant Used<br>JCB 3CX                                                                |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  | Approved By<br>FL                                                                   |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  | Scale 1:50                                                                                 |  |                                                                                     |  |
| Samples and Results                                                                                                                                                                                                                                                                      |      |                                                                                          | Depth,<br>(Thickness) | Level                                                                                | Stratum Description                                                                                                                                                                                                                                                                           |                                                                                  |  |                                                                                            |  | Legend                                                                              |  |
| Results                                                                                                                                                                                                                                                                                  | Type | Depth                                                                                    |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      | 0.50                                                                                     | (0.40)                | 1                                                                                    | Grass upon firm brown sandy slightly gravelly CLAY with fine rootlets. Gravels are medium angular to sub angular mudstone and clincker. High fine brick and glass content. <b>(Made Ground)</b>                                                                                               |                                                                                  |  |                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 0.40                  |                                                                                      | (Medium dense) blackish brown clayey gravelly SAND. Sand is coarse. Gravels are fine to coarse of angular to sub angular clincker, mudstone and sandstone. <b>(Made Ground)</b>                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | (0.20)                |                                                                                      | (Dence) Black ashy slightly sandy slightly clayey fine to medium angular to sub angular GRAVEL of clincker. Medium cobble content of coarse grey sandstone. Rare soft brown clay inclusions. Rare entact brick and large rectangular concrete block measuring 500x300mm. <b>(Made Ground)</b> |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 0.60                  |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | (0.70)                |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 1.30                  |                                                                                      | Medium black ashy slightly gravelly SAND. Gravels are fine sub angular clincker with occasional fragments of brick. <b>(Made Ground)</b>                                                                                                                                                      |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | (0.10)                |                                                                                      | Firm brown sandy gravelly CLAY. Gravels are angular to sub angular of sandstone and slate. Rare brick fragments. <b>(Made Ground)</b>                                                                                                                                                         |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 1.40                  |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | (0.30)                |                                                                                      | (Medium dense) black ashy slightly gravelly SAND. Gravels are fine sub angular clincker with occasional fragments of brick. <b>(Made Ground)</b>                                                                                                                                              |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 1.70                  |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | (0.60)                | 2                                                                                    | End of Trial Pit at 2.30m                                                                                                                                                                                                                                                                     |                                                                                  |  |                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          | 2.30                  |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Remarks                                                                                                                                                                                                                                                                                  |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| 1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated at extent of excavator's reach. 4] Trial pit backfilled with arisings. |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Pit Stability: Spalling                                                                                                                                                                                                                                                                  |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.                                                                                                                                             |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| <div>1.40m</div> <div>0.60m</div> <div>Final Depth 2.30m</div>                                                                                                                                                                                                                           |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |

|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
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|                                                                                                                                                                                                                            |  | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors |                       | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |       | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |                                                                                                                                                                                                                                                          | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |  | Borehole No.<br><b>TP02/2</b><br>Sheet 1 of 1 |                                                                                     |  |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                                      |  |                                                                                          |                       | Project No.<br>17412-CA                                                              |       | Date<br>01/05/2025 to 01/05/2025                                                 |                                                                                                                                                                                                                                                          |                                                                                            |  | Hole Type<br>TP                               |                                                                                     |  |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                                               |  |                                                                                          |                       | Co-ords<br>E:<br>N:<br>L:                                                            |       | Water Strike Details<br>Depth Strike<br>Remarks                                  |                                                                                                                                                                                                                                                          |                                                                                            |  | Logged By<br>FL                               |                                                                                     |  |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                                               |  |                                                                                          | Plant Used<br>JCB 3CX |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  | Approved By<br>FL                             |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               | Scale 1:50                                                                          |  |
| Samples and Results                                                                                                                                                                                                                                                                                        |  |                                                                                          | Depth,<br>(Thickness) |                                                                                      | Level |                                                                                  | Stratum Description                                                                                                                                                                                                                                      |                                                                                            |  |                                               | Legend                                                                              |  |
| Results                                                                                                                                                                                                                                                                                                    |  | Type                                                                                     | Depth                 |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | (0.30)                                                                               |       |                                                                                  | Grass upon firm brown sandy slightly gravelly CLAY with fine rootlets. Gravels are fine to coarse angular to sub angular mudstone, sandstone and clincker. Medium grey sandstone cobble content. High fine brick and glass content. <b>(Made Ground)</b> |                                                                                            |  |                                               |  |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 0.30                                                                                 |       |                                                                                  | (Medium dense) blackish brown clayey gravelly SAND. Sand is coarse. Gravels are fine to coarse of angular to sub angular clincker, mudstone and sandstone. <b>(Made Ground)</b>                                                                          |                                                                                            |  |                                               |  |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | (0.80)                                                                               |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 1                                                                                    |       |                                                                                  | Firm black ashy slight sandy lightly gravelly CLAY. Gravels are sub angular to sub rounded grey and red sandstone. Contains clincker, entact and fragmented brick, timber, glass and plastic mesh. <b>(Made Ground)</b>                                  |                                                                                            |  |                                               |  |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 1.10                                                                                 |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | (0.50)                                                                               |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 1.60                                                                                 |       |                                                                                  | Soft black and brown mottled ashy sandy slightly gravelly CLAY. Gravels are sub angular to sub rounded fine to medium sandstone and mudstone. <b>(Made Ground)</b>                                                                                       |                                                                                            |  |                                               |  |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 2                                                                                    |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | (1.10)                                                                               |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 2.70                                                                                 |       |                                                                                  | End of Trial Pit at 2.70m                                                                                                                                                                                                                                |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 3                                                                                    |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                       | 4                                                                                    |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
| <b>Remarks</b><br>1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated at extent of excavator's reach. 4] Trial pit backfilled with arisings. |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
| <b>Pit Stability:</b> Spalling                                                                                                                                                                                                                                                                             |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
| Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.                                                                                                                                                               |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |
| <div><div>0.60m</div><div>1.35m</div><div>Final Depth 2.70m</div></div>                                                                                                                                                                                                                                    |  |                                                                                          |                       |                                                                                      |       |                                                                                  |                                                                                                                                                                                                                                                          |                                                                                            |  |                                               |                                                                                     |  |

|                                                                                                                                                                                                                                                                                          |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|--|----------------------------------------------------------------------------------|--|---------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|--|--|
|                                                                                                                                                                                                          |      |       | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors<br>Phone: 033 022 36380 Email: hello@tfwgroup.co.uk |       |                                                                                                                                                                                               | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |                           |  | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |  |         | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |                                                                                     |                                                                | Borehole No.<br><b>TP03/2</b><br>Sheet 1 of 1 |  |  |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                    |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      | Project No.<br>17412-CA   |  | Date<br>01/05/2025 to 01/05/2025                                                 |  |         |                                                                                            |                                                                                     | Hole Type<br>TP                                                |                                               |  |  |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                             |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      | Co-ords<br>E:<br>N:<br>L: |  | Water Strike Details                                                             |  |         |                                                                                            |                                                                                     | Logged By<br>FL                                                |                                               |  |  |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                             |      |       |                                                                                                                                              |       | Plant Used<br>JCB 3CX                                                                                                                                                                         |                                                                                      |                           |  | Depth Strike                                                                     |  | Remarks |                                                                                            | Approved By<br>FL                                                                   |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     | Scale 1:50                                                     |                                               |  |  |
| Samples and Results                                                                                                                                                                                                                                                                      |      |       | Depth,<br>(Thickness)                                                                                                                        | Level | Stratum Description                                                                                                                                                                           |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            | Legend                                                                              |                                                                |                                               |  |  |
| Results                                                                                                                                                                                                                                                                                  | Type | Depth |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | (0.40)                                                                                                                                       |       | Grass upon (Medium dense) brown ashy gravelly SAND. Gravels of sub angular red, grey and yellow coarse sandstone. High content of brick and glass bottles. <b>(Made Ground)</b>               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |  |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 0.40                                                                                                                                         |       | (Medium dense) black ashy gravelly SAND. Gravels are fine to coarse angular to sub angular of sandstone and clinker. High content of bottles, ceramic pottery and timber <b>(Made Ground)</b> |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 1                                                                                                                                            |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | (2.30)                                                                                                                                       |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 2                                                                                                                                            |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 2.70                                                                                                                                         |       | End of Trial Pit at 2.70m                                                                                                                                                                     |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 3                                                                                                                                            |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
|                                                                                                                                                                                                                                                                                          |      |       | 4                                                                                                                                            |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
| Remarks                                                                                                                                                                                                                                                                                  |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     | <div>0.65m</div> <div>1.60m</div> <div>Final Depth 2.70m</div> |                                               |  |  |
| 1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated at extent of excavator's reach. 4] Trial pit backfilled with arisings. |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
| Pit Stability: Spalling                                                                                                                                                                                                                                                                  |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |
| Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.                                                                                                                                             |      |       |                                                                                                                                              |       |                                                                                                                                                                                               |                                                                                      |                           |  |                                                                                  |  |         |                                                                                            |                                                                                     |                                                                |                                               |  |  |



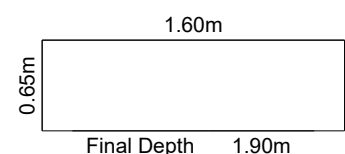


|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|-----------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                         |      | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors |                       | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |                                                                                                                                                                                                                                                                                                                                                       | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |  | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |  | Borehole No.<br><b>TP05/2</b><br>Sheet 1 of 1 |                                                                                     |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                                                   |      |                                                                                          |                       | Project No.<br>17412-CA                                                              |                                                                                                                                                                                                                                                                                                                                                       | Date<br>01/05/2025 to 01/05/2025                                                 |  |                                                                                            |  | Hole Type<br>TP                               |                                                                                     |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                                                            |      |                                                                                          |                       | Co-ords<br>E:<br>N:<br>L:                                                            |                                                                                                                                                                                                                                                                                                                                                       | Water Strike Details                                                             |  |                                                                                            |  | Logged By<br>FL                               |                                                                                     |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                                                            |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       | Plant Used<br>JCB 3CX                                                            |  | Depth Strike                                                                               |  | Remarks                                       |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  | Approved By<br>FL                             |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  | Scale 1:50                                    |                                                                                     |
| Samples and Results                                                                                                                                                                                                                                                                                                     |      |                                                                                          | Depth,<br>(Thickness) | Level                                                                                | Stratum Description                                                                                                                                                                                                                                                                                                                                   |                                                                                  |  |                                                                                            |  |                                               | Legend                                                                              |
| Results                                                                                                                                                                                                                                                                                                                 | Type | Depth                                                                                    |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | (0.20)<br>0.20        |                                                                                      | Grass upon firm brown sandy slightly gravelly CLAY with fine rootlets. Gravels are medium angular to sub angular mudstone and clincker. High fine brick and glass content. <b>(Made Ground)</b><br>(Medium dense) Greyish brown clayey sandy fine to coarse angular to sub angular GRAVEL of mudstone, slate and grey sandstone. <b>(Made Ground)</b> |                                                                                  |  |                                                                                            |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 1<br>(1.70)           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 1.90                  |                                                                                      | End of Trial Pit at 1.90m                                                                                                                                                                                                                                                                                                                             |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 2                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 3                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 4                     |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
| Remarks<br>1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated to perform infiltration test. 4] Trial pit backfilled with arisings on completion of test. |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
| Pit Stability: Unstable                                                                                                                                                                                                                                                                                                 |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |
| Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.                                                                                                                                                                            |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |  |                                                                                            |  |                                               |                                                                                     |

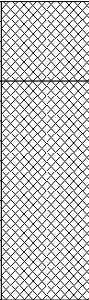
0.55m

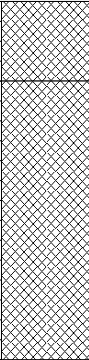
1.50m

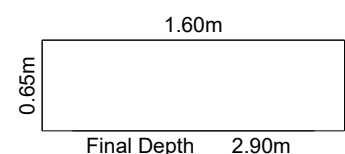
Final Depth 1.90m





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors |                       | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |                                                                                                                                                                                               | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |  | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |  | Borehole No.<br><b>TP07/2</b><br>Sheet 1 of 1                                       |  |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                          |                       | Project No.<br>17412-CA                                                              |                                                                                                                                                                                               | Date<br>02/05/2025 to 02/05/2025                                                 |  |                                                                                            |  | Hole Type<br>TP                                                                     |  |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       | Co-ords<br>E:<br>N:<br>L:                                                            |                                                                                                                                                                                               | Water Strike Details                                                             |  |                                                                                            |  | Logged By<br>FL                                                                     |  |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               | Plant Used<br>JCB 3CX                                                            |  | Depth Strike                                                                               |  | Remarks                                                                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  | Approved By<br>FL                                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  | Scale 1:50                                                                          |  |
| Samples and Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                          | Depth,<br>(Thickness) | Level                                                                                | Stratum Description                                                                                                                                                                           |                                                                                  |  |                                                                                            |  | Legend                                                                              |  |
| Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Type | Depth                                                                                    |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | (0.40)                |                                                                                      | Grass upon (Medium dense) brown ashy gravelly SAND. Gravels of sub angular red, grey and yellow coarse sandstone. High content of brick and glass bottles. <b>(Made Ground)</b>               |                                                                                  |  |                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 0.40                  |                                                                                      | (Medium dense) black ashy gravelly SAND. Gravels are fine to coarse angular to sub angular of sandstone and clinker. High content of bottles, ceramic pottery and timber <b>(Made Ground)</b> |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 1 (1.10)              |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 1.50                  |                                                                                      | End of Trial Pit at 1.50m                                                                                                                                                                     |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 2                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 3                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                          | 4                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| <div>Remarks</div> <div>1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated to perform infiltration test. 4] Trial pit backfilled with arisings on completion of test.</div> <div>Pit Stability: Spalling</div> <div>Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.</div> |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| <div>1.50m</div> <div>0.50m</div> <div>Final Depth 1.50m</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |

|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                         |      | Consulting Geotechnical, Geo-Environmental Engineers<br>& Site Investigation Contractors |                       | Cardiff Office<br>5 Deryn Court<br>Wharfedale Road<br>Pentwyn<br>Cardiff<br>CF23 7HA |                                                                                                                                                                                               | Exeter Office<br>The Slate Barn<br>Lower Lowley<br>Dunsford<br>Exeter<br>EX6 7BP |  | Portsmouth Office<br>Technopole<br>Kingston Crescent<br>North End<br>Portsmouth<br>PO2 8FA |  | Borehole No.<br><b>TP08/2</b><br>Sheet 1 of 1                                       |  |
| Project Name<br>Hillcrest Development                                                                                                                                                                                                                                                                                   |      |                                                                                          |                       | Project No.<br>17412-CA                                                              |                                                                                                                                                                                               | Date<br>02/05/2025 to 02/05/2025                                                 |  |                                                                                            |  | Hole Type<br>TP                                                                     |  |
| Client<br>Merthyr Tydfil Housing Association                                                                                                                                                                                                                                                                            |      |                                                                                          |                       | Co-ords<br>E:<br>N:<br>L:                                                            |                                                                                                                                                                                               | Water Strike Details                                                             |  |                                                                                            |  | Logged By<br>FL                                                                     |  |
| Contractor<br>Authur Winnett                                                                                                                                                                                                                                                                                            |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               | Plant Used<br>JCB 3CX                                                            |  | Depth Strike                                                                               |  | Remarks                                                                             |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  | Approved By<br>FL                                                                   |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  | Scale 1:50                                                                          |  |
| Samples and Results                                                                                                                                                                                                                                                                                                     |      |                                                                                          | Depth,<br>(Thickness) | Level                                                                                | Stratum Description                                                                                                                                                                           |                                                                                  |  |                                                                                            |  | Legend                                                                              |  |
| Results                                                                                                                                                                                                                                                                                                                 | Type | Depth                                                                                    |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | (0.40)                |                                                                                      | Grass upon (Medium dense) brown ashy gravelly SAND. Gravels of sub angular red, grey and yellow coarse sandstone. High content of brick and glass bottles. <b>(Made Ground)</b>               |                                                                                  |  |                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 0.40                  |                                                                                      | (Medium dense) black ashy gravelly SAND. Gravels are fine to coarse angular to sub angular of sandstone and clinker. High content of bottles, ceramic pottery and timber <b>(Made Ground)</b> |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 1<br>(1.40)           |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 1.80                  |                                                                                      | End of Trial Pit at 1.80m                                                                                                                                                                     |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 2                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 3                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                         |      |                                                                                          | 4                     |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Remarks<br>1] Consistency, strength and density indicators are based upon field judgement. 2] Density indicator is in brackets and is for guidance only, and is not in accordance with BS 5930:2015. 3] Trial pit terminated to perform infiltration test. 4] Trial pit backfilled with arisings on completion of test. |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Pit Stability: Spalling                                                                                                                                                                                                                                                                                                 |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.                                                                                                                                                                            |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |
| <div><div>0.55m</div><div>1.40m</div><div>Final Depth 1.80m</div></div>                                                                                                                                                                                                                                                 |      |                                                                                          |                       |                                                                                      |                                                                                                                                                                                               |                                                                                  |  |                                                                                            |  |                                                                                     |  |





**ANNEX D**  
**Soakaway Results**

# SOAKAWAY TEST



Site Name: Hayden Terrace  
Project Number: 17412  
Date: 20/07/2022  
Engineer: Elliot Sampson

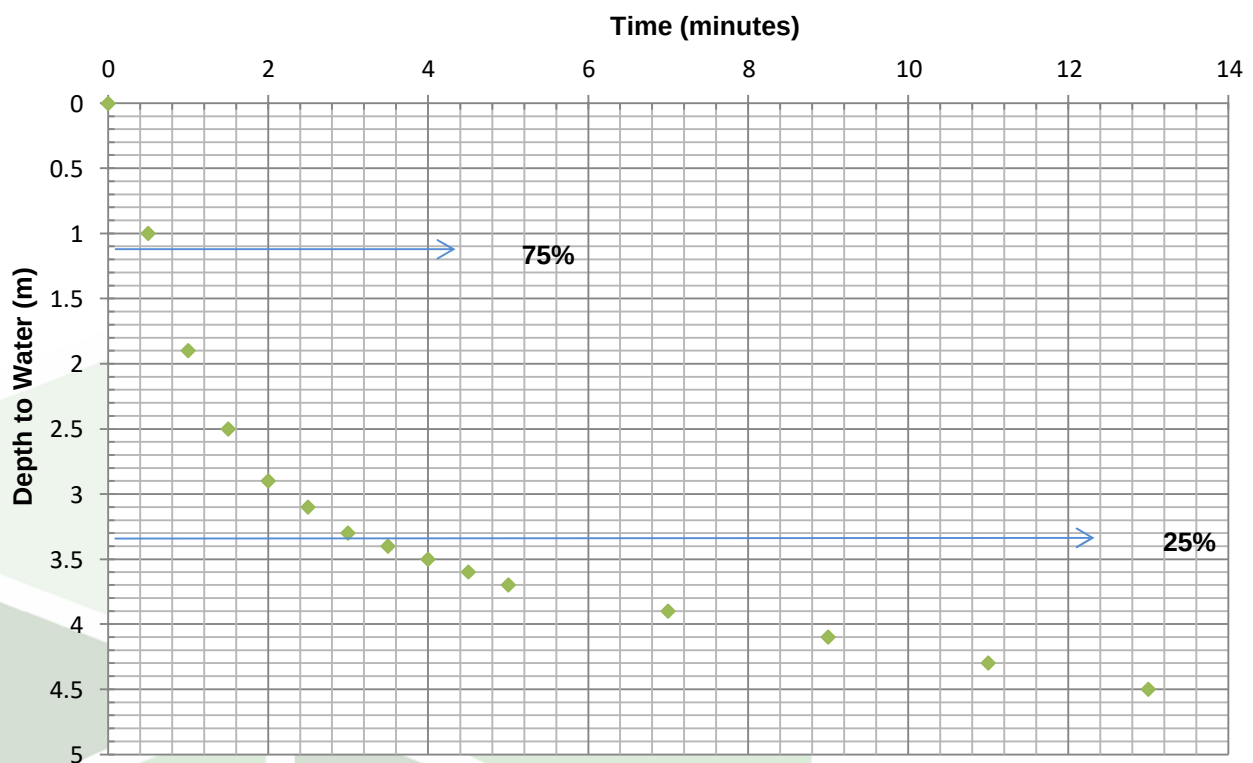
Borehole: **BH02**

## TEST 1

Borehole Diameter 0.20 m  
Depth 4.50 m  
Fill Level 0.00 m

$V_{p75-25}$  0.071 m<sup>3</sup>  
 $a_{p50}$  1.444 m<sup>2</sup>  
 $t_{p75-25}$  2.8 minutes

Soil Infiltration Rate,  $f$  2.91E-04 ms<sup>-1</sup>  
Provisional Only



## REMARKS:

Test carried out in general accordance with BRE DIGEST 365 (2016) but on a small scale

# SOAKAWAY TEST



**Site Name:** Hillcrest Housing Development  
**Project Number:** 17412  
**Date:** 02/05/2025  
**Engineer:** Florence Linklater

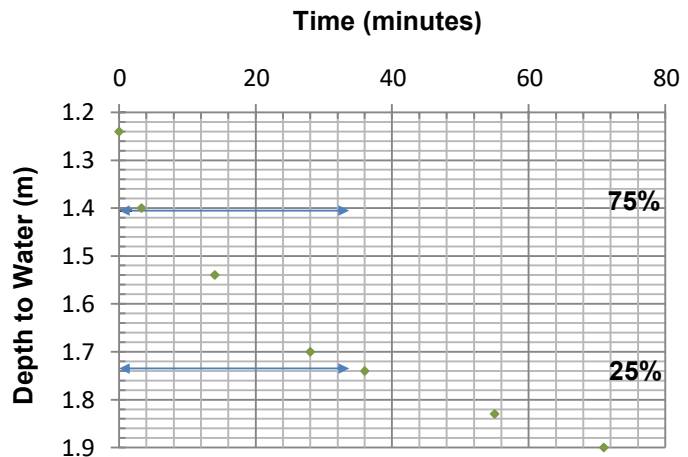
**Trial Pit:** TP06/2

## TEST 1

Length 1.70 m  
Width 0.85 m  
Depth 1.90 m  
Fill Level 1.24 m

$V_{p75-25}$  0.477 m<sup>3</sup>  
 $a_{p50}$  3.128 m<sup>2</sup>  
 $t_{p75-25}$  32.7 minutes

**Soil Infiltration Rate, f** 7.77E-05 ms<sup>-1</sup>

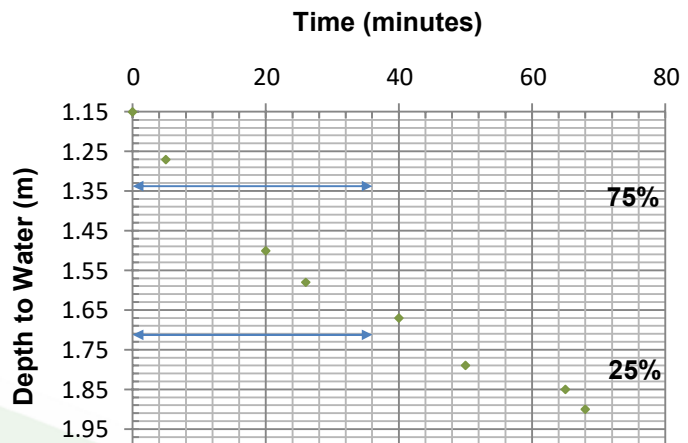


## TEST 2

Length 1.70 m  
Width 0.85 m  
Depth 1.90 m  
Fill Level 1.15 m

$V_{p75-25}$  0.542 m<sup>3</sup>  
 $a_{p50}$  3.358 m<sup>2</sup>  
 $t_{p75-25}$  35 minutes

**Soil Infiltration Rate, f** 7.69E-05 ms<sup>-1</sup>

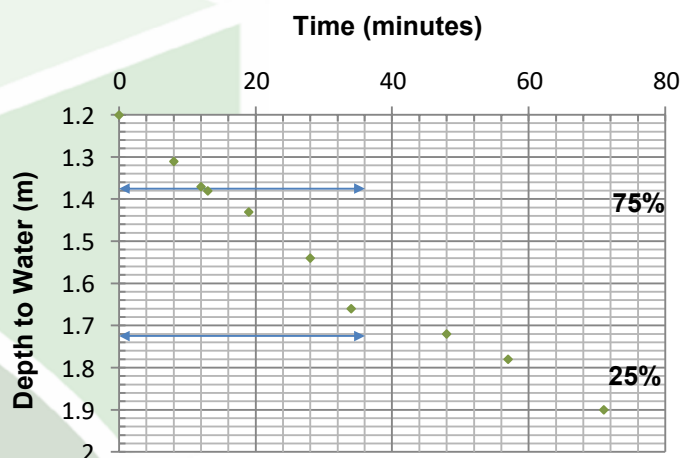


## TEST 3

Length 1.70 m  
Width 0.85 m  
Depth 1.90 m  
Fill Level 1.20 m

$V_{p75-25}$  0.506 m<sup>3</sup>  
 $a_{p50}$  3.23 m<sup>2</sup>  
 $t_{p75-25}$  35 minutes

**Soil Infiltration Rate, f** 7.46E-05 ms<sup>-1</sup>



## REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)



# SOAKAWAY TEST



**Site Name:** Hillcrest Housing Development  
**Project Number:** 17412  
**Date:** 02/05/2025  
**Engineer:** Florence Linklater

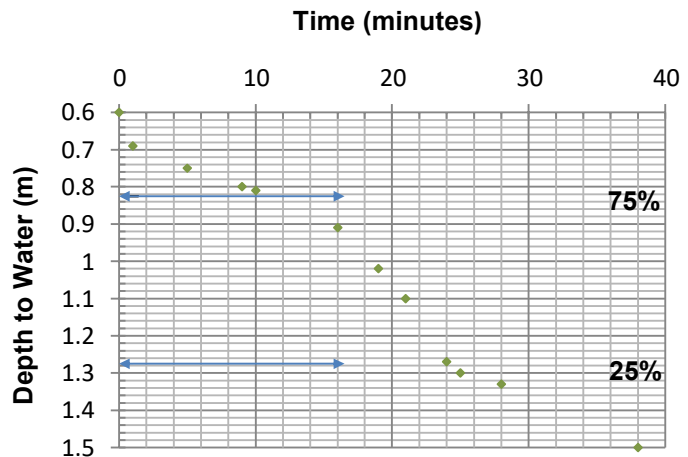
**Trial Pit:** TP07/2

## TEST 1

Length 1.50 m  
Width 0.50 m  
Depth 1.50 m  
Fill Level 0.60 m

$V_{p75-25}$  0.338 m<sup>3</sup>  
 $a_{p50}$  2.55 m<sup>2</sup>  
 $t_{p75-25}$  15.5 minutes

**Soil Infiltration Rate, f** 1.42E-04 ms<sup>-1</sup>

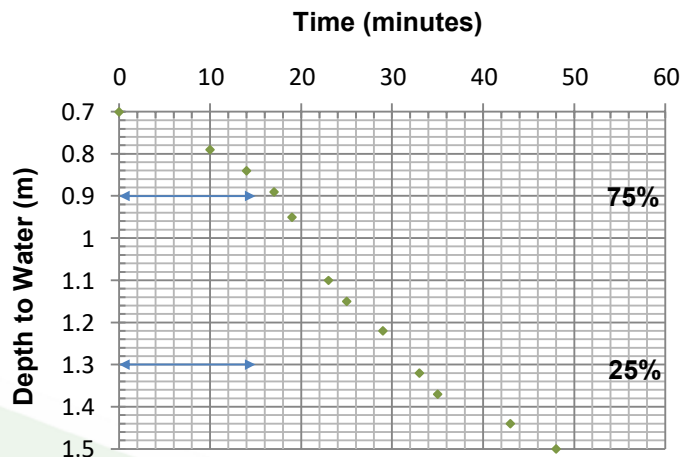


## TEST 2

Length 1.50 m  
Width 0.50 m  
Depth 1.50 m  
Fill Level 0.70 m

$V_{p75-25}$  0.3 m<sup>3</sup>  
 $a_{p50}$  2.35 m<sup>2</sup>  
 $t_{p75-25}$  14 minutes

**Soil Infiltration Rate, f** 1.52E-04 ms<sup>-1</sup>

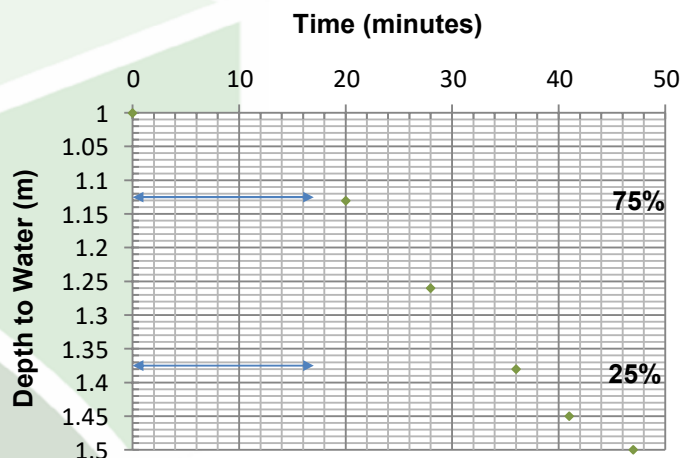


## TEST 3

Length 1.50 m  
Width 0.50 m  
Depth 1.50 m  
Fill Level 1.00 m

$V_{p75-25}$  0.188 m<sup>3</sup>  
 $a_{p50}$  1.75 m<sup>2</sup>  
 $t_{p75-25}$  16 minutes

**Soil Infiltration Rate, f** 1.12E-04 ms<sup>-1</sup>



## REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

# SOAKAWAY TEST



**Site Name:** Hillcrest Housing Development  
**Project Number:** 17412  
**Date:** 02/05/2025  
**Engineer:** Florence Linklater

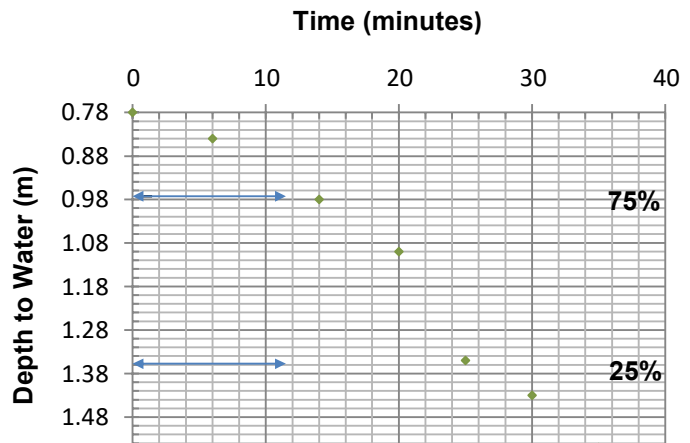
**Trial Pit:** TP09/2

## TEST 1

Length 1.50 m  
Width 0.50 m  
Depth 1.55 m  
Fill Level 0.78 m

$V_{p75-25}$  0.289 m<sup>3</sup>  
 $a_{p50}$  2.29 m<sup>2</sup>  
 $t_{p75-25}$  10.5 minutes

**Soil Infiltration Rate, f** 2.00E-04 ms<sup>-1</sup>

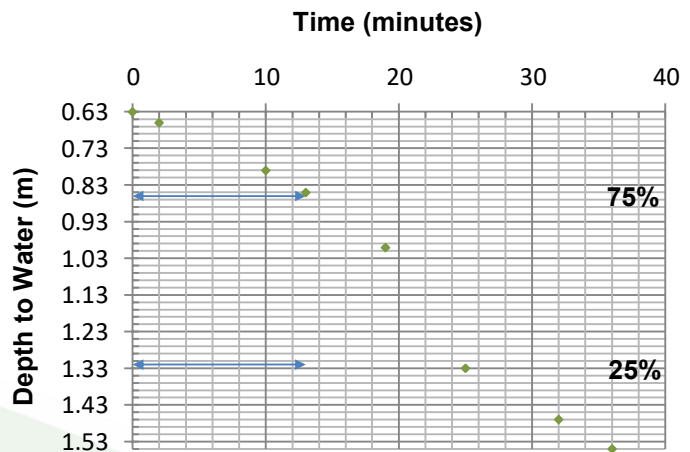


## TEST 2

Length 1.50 m  
Width 0.50 m  
Depth 1.55 m  
Fill Level 0.63 m

$V_{p75-25}$  0.345 m<sup>3</sup>  
 $a_{p50}$  2.59 m<sup>2</sup>  
 $t_{p75-25}$  12 minutes

**Soil Infiltration Rate, f** 1.85E-04 ms<sup>-1</sup>

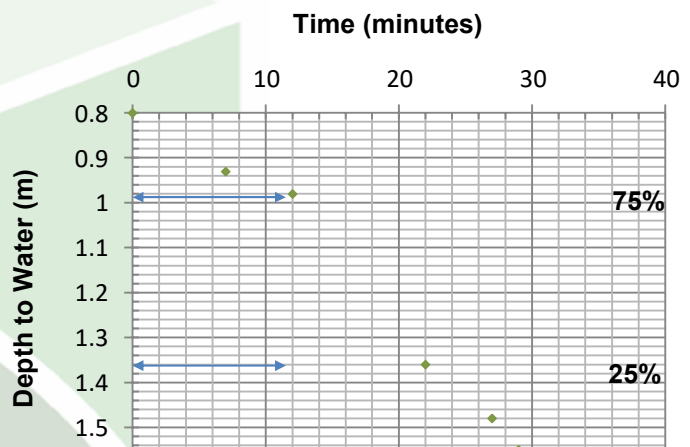


## TEST 3

Length 1.50 m  
Width 0.50 m  
Depth 1.55 m  
Fill Level 0.80 m

$V_{p75-25}$  0.281 m<sup>3</sup>  
 $a_{p50}$  2.25 m<sup>2</sup>  
 $t_{p75-25}$  10.5 minutes

**Soil Infiltration Rate, f** 1.98E-04 ms<sup>-1</sup>



## REMARKS:

Test carried out in accordance with BRE Digest 365 (2016)

**ANNEX E  
Borehole Logs**



Project Name  
Haydn Terrace

Project No.  
13082

Co-ords: -

Hole Type  
WS

Location: Merthyr Tydfil

Level: -

Scale  
1:30

Client: The Urbanists

Dates: 23/02/2015

Logged By  
TW

| Well | Water Strikes | Samples & In Situ Testing |      |                            | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                                                |   |
|------|---------------|---------------------------|------|----------------------------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type | Results                    |           |               |        |                                                                                                                                    |   |
|      |               |                           |      |                            | 0.10      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with frequent roots and rootlets.                                                      |   |
|      |               | 0.50                      | D    |                            |           |               |        | MADE GROUND: Highly variable loose to medium dense grey clayey gravelly SAND or CLAY with ash.                                     |   |
|      |               |                           |      |                            | 0.70      |               |        |                                                                                                                                    |   |
|      |               | 1.00                      | CPT  | N=23<br>N=23 (1,2,2,6,9,6) |           |               |        | SUSPECTED MADE GROUND: Soft to firm with depth brown sandy gravelly CLAY with suspected cobbles. Possible reworked natural ground. | 1 |
|      |               |                           |      |                            |           |               |        |                                                                                                                                    |   |
|      |               | 2.00                      | CPT  | N=7<br>N=7 (1,1,1,2,2,2)   |           |               |        |                                                                                                                                    | 2 |
|      |               |                           |      |                            |           |               |        |                                                                                                                                    |   |
|      |               | 3.00                      | CPT  | N=7<br>N=7 (1,1,1,1,2,3)   |           |               |        |                                                                                                                                    | 3 |
|      |               |                           |      |                            |           |               |        |                                                                                                                                    |   |
|      |               | 4.00                      | CPT  | N=4<br>N=4 (1,2,1,1,1,1)   |           |               |        |                                                                                                                                    | 4 |
|      |               |                           |      |                            |           |               |        |                                                                                                                                    |   |
|      |               | 5.00                      | CPT  | N=27<br>N=27 (4,3,5,8,7,7) | 5.00      |               |        | End of Borehole at 5.00 m                                                                                                          | 5 |
|      |               |                           |      |                            |           |               |        |                                                                                                                                    |   |
|      |               |                           | Type | Results                    |           |               |        |                                                                                                                                    |   |

Remarks:

|                               |                      |                   |                 |
|-------------------------------|----------------------|-------------------|-----------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -        | Hole Type<br>WS |
| Location: Merthyr Tydfil      |                      | Level: -          | Scale<br>1:30   |
| Client: The Urbanists         |                      | Dates: 23/02/2015 | Logged By<br>TW |

| Well | Water Strikes | Samples & In Situ Testing |          |                          | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                                              |   |
|------|---------------|---------------------------|----------|--------------------------|-----------|---------------|--------|----------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type     | Results                  |           |               |        |                                                                                                                                  |   |
|      |               |                           |          |                          | 0.10      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles and frequent roots and rootlets.                             |   |
|      |               |                           |          |                          | 0.45      |               |        | MADE GROUND: Firm brown sandy gravelly CLAY with occasional cobbles. Reworked natural ground.                                    |   |
|      |               | 1.00<br>1.00              | CPT<br>D | N=5<br>N=5 (2,1,2,1,1,1) |           |               |        | Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, china, bone and metal. Strong volatile organic odour. | 1 |
|      |               | 2.00                      | CPT      | N=1<br>N=1 (0,0,0,1,0,0) |           |               |        |                                                                                                                                  | 2 |
|      |               | 3.00                      | CPT      | N=3<br>N=3 (1,1,1,0,1,1) |           |               |        |                                                                                                                                  | 3 |
|      |               | 4.00                      | CPT      | N=6<br>N=6 (1,2,1,2,1,2) |           |               |        |                                                                                                                                  | 4 |
|      |               | 5.00                      | CPT      | N=4<br>N=4 (1,0,1,1,1,1) |           |               |        |                                                                                                                                  | 5 |
|      |               |                           | Type     | Results                  |           |               |        | End of Borehole at 6.00 m                                                                                                        |   |

Remarks:

|                               |                      |                   |                 |
|-------------------------------|----------------------|-------------------|-----------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -        | Hole Type<br>WS |
| Location: Merthyr Tydfil      |                      | Level: -          | Scale<br>1:30   |
| Client: The Urbanists         |                      | Dates: 23/02/2015 | Logged By<br>TW |

| Well | Water Strikes | Samples & In Situ Testing |         |                            | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                                                                                                                                                      |   |
|------|---------------|---------------------------|---------|----------------------------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type    | Results                    |           |               |        |                                                                                                                                                                                                                                          |   |
|      |               |                           |         |                            | 0.10      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles and frequent roots and rootlets.<br>Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, china, bone and metal. Strong volatile organic odour. |   |
|      |               | 1.00                      | CPT     | N=6<br>N=6 (1,2,2,1,2,1)   |           |               |        |                                                                                                                                                                                                                                          | 1 |
|      |               | 2.00                      | CPT     | N=2<br>N=2 (1,0,1,0,1,0)   |           |               |        |                                                                                                                                                                                                                                          | 2 |
|      |               | 3.00                      | CPT     | N=3<br>N=3 (1,0,0,1,1,1)   |           |               |        |                                                                                                                                                                                                                                          | 3 |
|      |               | 4.00                      | CPT     | N=8<br>N=8 (2,2,1,2,2,3)   |           |               |        |                                                                                                                                                                                                                                          | 4 |
|      |               | 5.00                      | CPT     | N=13<br>N=13 (2,1,2,3,4,4) | 5.00      |               |        | End of Borehole at 5.00 m                                                                                                                                                                                                                | 5 |
|      |               | Type                      | Results |                            |           |               |        |                                                                                                                                                                                                                                          |   |

Remarks:



|                               |                      |                   |                 |
|-------------------------------|----------------------|-------------------|-----------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -        | Hole Type<br>WS |
| Location: Merthyr Tydfil      |                      | Level: -          | Scale<br>1:30   |
| Client: The Urbanists         |                      | Dates: 23/02/2015 | Logged By<br>TW |

| Well | Water Strikes | Samples & In Situ Testing |      |                            | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                                                                                                                                                      |   |
|------|---------------|---------------------------|------|----------------------------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type | Results                    |           |               |        |                                                                                                                                                                                                                                          |   |
|      |               |                           |      |                            | 0.15      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles and frequent roots and rootlets.<br>Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, china, bone and metal. Strong volatile organic odour. |   |
|      |               | 1.00                      | CPT  | N=7<br>N=7 (1,3,2,1,2,2)   |           |               |        |                                                                                                                                                                                                                                          | 1 |
|      |               | 2.00                      | CPT  | N=5<br>N=5 (1,1,1,2,1,1)   |           |               |        |                                                                                                                                                                                                                                          | 2 |
|      |               | 3.00                      | CPT  | N=5<br>N=5 (1,2,1,2,1,1)   |           |               |        |                                                                                                                                                                                                                                          | 3 |
|      |               | 4.00                      | CPT  | N=11<br>N=11 (2,2,3,2,4,2) |           |               |        |                                                                                                                                                                                                                                          | 4 |
|      |               | 5.00                      | CPT  | N=7<br>N=7 (2,3,2,2,1,2)   | 5.00      |               |        | End of Borehole at 5.00 m                                                                                                                                                                                                                | 5 |
|      |               |                           | Type | Results                    |           |               |        |                                                                                                                                                                                                                                          |   |

Remarks:

|                               |                      |                   |                 |
|-------------------------------|----------------------|-------------------|-----------------|
| Project Name<br>Haydn Terrace | Project No.<br>13082 | Co-ords: -        | Hole Type<br>WS |
| Location: Merthyr Tydfil      |                      | Level: -          | Scale<br>1:30   |
| Client: The Urbanists         |                      | Dates: 23/02/2015 | Logged By<br>TW |

| Well | Water Strikes | Samples & In Situ Testing |      |                            | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                         |   |
|------|---------------|---------------------------|------|----------------------------|-----------|---------------|--------|-------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type | Results                    |           |               |        |                                                                                                             |   |
|      |               |                           |      |                            | 0.15      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with frequent roots and rootlets.                               |   |
|      |               |                           |      |                            | 0.50      |               |        | MADE GROUND: Soft to firm becoming firm with depth brown sandy gravelly CLAY with occasional large cobbles. |   |
|      |               | 1.00                      | CPT  | N=8<br>N=8 (3,2,1,4,2,1)   | 1.00      |               |        | MADE GROUND: Soft to firm becoming firm with depth brown sandy gravelly CLAY with occasional large cobbles. | 1 |
|      |               | 2.00                      | CPT  | N=5<br>N=5 (1,1,1,1,2,1)   | 2.00      |               |        | MADE GROUND: Firm brown sandy gravelly CLAY. Reworked natural ground.                                       | 2 |
|      |               | 3.00                      | CPT  | N=8<br>N=8 (2,2,2,2,2,2)   |           |               |        |                                                                                                             | 3 |
|      |               | 4.00                      | CPT  | 50/75mm<br>75mm (15,21,50) | 4.00      |               |        | End of Borehole at 4.00 m                                                                                   | 4 |
|      |               |                           |      |                            |           |               |        |                                                                                                             | 5 |

Remarks:

Project Name  
Haydn Terrace

Project No.  
13082

Co-ords: -

Hole Type  
WS

Location: Merthyr Tydfil

Level: -

Scale  
1:30

Client: The Urbanists

Dates: 23/02/2015

Logged By  
TW

| Well | Water Strikes | Samples & In Situ Testing |      |                            | Depth (m) | Level (m AOD) | Legend | Stratum Description                                                                                  |   |
|------|---------------|---------------------------|------|----------------------------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                 | Type | Results                    |           |               |        |                                                                                                      |   |
|      |               |                           |      |                            | 0.15      |               |        | MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles and frequent roots and rootlets. |   |
|      |               |                           |      |                            |           |               |        | MADE GROUND: Firm brown sandy gravelly CLAY with occasional cobbles. Reworked natural ground.        |   |
|      |               | 1.00                      | CPT  | N=11<br>N=11 (1,4,2,3,3,3) | 1.10      |               |        |                                                                                                      | 1 |
|      |               |                           |      |                            |           |               |        | Loose black grey ashy clay SAND and GRAVEL. Occasional fragments of glass, and metal.                |   |
|      |               | 2.00                      | CPT  | N=2<br>N=2 (1,0,1,0,0,1)   | 2.00      |               |        |                                                                                                      | 2 |
|      |               |                           |      |                            |           |               |        | End of Borehole at 6.00 m                                                                            |   |
|      |               | 2.50                      | CPT  | N=11<br>N=11 (2,3,2,4,2,3) |           |               |        |                                                                                                      |   |
|      |               | 3.00                      | CPT  | N=14<br>N=14 (3,3,4,3,2,5) |           |               |        |                                                                                                      | 3 |
|      |               | 3.50                      | CPT  | N=12<br>N=12 (2,3,3,3,2,4) |           |               |        |                                                                                                      |   |
|      |               | 4.00                      | CPT  | N=10<br>N=10 (3,2,2,3,3,2) |           |               |        |                                                                                                      | 4 |
|      |               | 4.50                      | CPT  | N=11<br>N=11 (3,3,3,2,2,4) |           |               |        |                                                                                                      |   |
|      |               | 5.00                      | CPT  | N=14<br>N=14 (4,4,3,3,4,4) |           |               |        |                                                                                                      | 5 |
|      |               | 5.50                      | CPT  | N=23<br>N=23 (5,4,4,4,6,9) |           |               |        |                                                                                                      |   |
|      |               |                           | Type | Results                    |           |               |        |                                                                                                      |   |

Remarks:



# Borehole Log

Borehole No.

**BH01**

Sheet 1 of 1

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 19/07/2022 - 20/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                            | Depth (m)    | Level (m) | Well | Legend | Stratum Description                                                                                                                                             |   |
|---------------|----------------------------|------|----------------------------|--------------|-----------|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|               | Depth (m)                  | Type | Results                    |              |           |      |        |                                                                                                                                                                 |   |
|               | 1.20                       | SPT  | N=20 (2,5/3,4,6,7)         |              |           |      |        | MADE GROUND. Black clayey sandy GRAVEL with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies | 1 |
|               | 2.20                       | SPT  | N=42 (4,8/8,11,10,13)      |              |           |      |        |                                                                                                                                                                 | 2 |
|               | 3.20                       | SPT  | N=23 (2,2/2,6,8,7)         | 2.90         |           |      |        | Stiff orangish brown slightly sandy CLAY. Sand is fine to coarse.                                                                                               | 3 |
|               | 4.20                       | SPT  | 50 (25 for 0mm/50 for 0mm) |              |           |      |        |                                                                                                                                                                 | 4 |
|               | 4.50                       | SPT  | 50 (25 for 0mm/50 for 0mm) | 4.50<br>4.60 |           |      |        | Possible SANDSTONE.                                                                                                                                             | 5 |
|               |                            |      |                            |              |           |      |        | End of Borehole at 4.600m                                                                                                                                       | 6 |
|               |                            |      |                            |              |           |      |        |                                                                                                                                                                 | 7 |
|               |                            |      |                            |              |           |      |        |                                                                                                                                                                 | 8 |
|               |                            |      |                            |              |           |      |        |                                                                                                                                                                 | 9 |

| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|-----------|---------------|----------------|------------------|---------|
|           |               |                |                  |         |

Remarks:

# Borehole Log

Borehole No.

**BH02**

Sheet 1 of 1

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 21/07/2022 - 21/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                        | Depth (m) | Level (m) | Well | Legend | Stratum Description                                                                                                                  |   |
|---------------|----------------------------|------|------------------------|-----------|-----------|------|--------|--------------------------------------------------------------------------------------------------------------------------------------|---|
|               | Depth (m)                  | Type | Results                |           |           |      |        |                                                                                                                                      |   |
|               | 1.00                       | SPT  | N=18 (1,2/4,4,4,6)     |           |           |      |        | MADE GROUND. Black sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies | 1 |
|               | 2.00                       | SPT  | N=21 (2,3/5,5,4,7)     |           |           |      |        |                                                                                                                                      | 2 |
|               | 3.00                       | SPT  | N=36 (4,5/8,9,10,9)    |           |           |      |        |                                                                                                                                      | 3 |
|               | 4.00                       | SPT  | 52 (8,17/52 for 117mm) | 4.20      |           |      |        |                                                                                                                                      | 4 |
|               |                            |      |                        | 5.00      |           |      |        | Dense greyish brown angular and subangular fine to coarse GRAVEL of sandstone.                                                       | 5 |
|               |                            |      |                        |           |           |      |        | End of Borehole at 5.000m                                                                                                            | 6 |
|               |                            |      |                        |           |           |      |        |                                                                                                                                      | 7 |
|               |                            |      |                        |           |           |      |        |                                                                                                                                      | 8 |
|               |                            |      |                        |           |           |      |        |                                                                                                                                      | 9 |

| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|-----------|---------------|----------------|------------------|---------|
|           |               |                |                  |         |

Remarks:

# Borehole Log

Borehole No.

**BH03**

Sheet 1 of 2

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 21/07/2022 - 22/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                        | Depth (m) | Level (m) | Well | Legend | Stratum Description                                                                                                                                    |   |
|---------------|----------------------------|------|------------------------|-----------|-----------|------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|               | Depth (m)                  | Type | Results                |           |           |      |        |                                                                                                                                                        |   |
|               | 1.00                       | SPT  | 50 (10,9/50 for 225mm) | 1.00      |           |      |        | MADE GROUND. Grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. |   |
|               | 1.50                       | SPT  | N=10 (13,11/4,3,2,1)   | 1.50      |           |      |        | MADE GROUND. Grey cobbly angular and subangular fine to coarse GRAVEL of sandstone                                                                     | 1 |
|               | 2.00                       | SPT  | N=6 (1,2/1,1,1,3)      | 2.00      |           |      |        | MADE GROUND. Grey clayey sandy angular and subangular fine to coarse GRAVEL of sandstone. Sand is fine to coarse.                                      | 2 |
|               | 3.00                       | SPT  | N=4 (1,1/1,1,1,1)      |           |           |      |        |                                                                                                                                                        | 3 |
|               | 4.00                       | SPT  | N=4 (1,1/1,1,1,1)      |           |           |      |        |                                                                                                                                                        | 4 |
|               | 5.00                       | SPT  | N=5 (1,1/1,1,1,2)      |           |           |      |        |                                                                                                                                                        | 5 |
|               | 6.50                       | SPT  | N=6 (1,1/1,1,1,3)      |           |           |      |        |                                                                                                                                                        | 6 |
|               | 8.00                       | SPT  | N=10 (5,3/3,2,2,3)     | 8.00      |           |      |        |                                                                                                                                                        | 7 |
|               |                            |      |                        |           |           |      |        | Grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone.                      | 8 |
|               |                            |      |                        |           |           |      |        |                                                                                                                                                        | 9 |

| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|-----------|---------------|----------------|------------------|---------|
|           |               |                |                  |         |

Remarks:



# Borehole Log

Borehole No.

**BH03**

Sheet 2 of 2

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 21/07/2022 - 22/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                            | Depth (m) | Level (m) | Well | Legend | Stratum Description                                                                                                               |    |
|---------------|----------------------------|------|----------------------------|-----------|-----------|------|--------|-----------------------------------------------------------------------------------------------------------------------------------|----|
|               | Depth (m)                  | Type | Results                    |           |           |      |        |                                                                                                                                   |    |
|               | 9.50                       | SPT  | 50 (25 for 0mm/50 for 0mm) | 9.50      |           |      |        | Grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone. |    |
|               | 9.60                       | SPT  | 50 (25 for 0mm/50 for 0mm) | 9.60      |           |      |        | Possible SANDSTONE.                                                                                                               |    |
|               |                            |      |                            |           |           |      |        | End of Borehole at 9.600m                                                                                                         |    |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 10 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 11 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 12 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 13 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 14 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 15 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 16 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 17 |
|               |                            |      |                            |           |           |      |        |                                                                                                                                   | 18 |

|           |               |                |                  |         |
|-----------|---------------|----------------|------------------|---------|
| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|           |               |                |                  |         |

Remarks:

# Borehole Log

Borehole No.

**BH04**

Sheet 1 of 1

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 22/07/2022 - 22/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                             | Depth (m)    | Level (m) | Well | Legend | Stratum Description                                                                                                                                            |   |
|---------------|----------------------------|------|-----------------------------|--------------|-----------|------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|               | Depth (m)                  | Type | Results                     |              |           |      |        |                                                                                                                                                                |   |
|               | 1.00                       | SPT  | N=4 (1,1/1,1,1,1)           |              |           |      |        | MADE GROUND. Grey slightly sandy angular and subangular fine to coarse GRAVEL of mixed lithologies.                                                            | 1 |
|               | 2.00                       | SPT  | N=31 (5,8/8,7,7,9)          | 2.00         |           |      |        | MADE GROUND. Black slightly clayey slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. | 2 |
|               | 2.50                       | SPT  | 50 (25 for 0mm/50 for 0mm)  | 2.50         |           |      |        | Dense greyish brown angular and subangular fine to coarse GRAVEL of sandstone.                                                                                 | 3 |
|               | 3.50                       | SPT  | N=31 (14,7/10,8,7,6)        |              |           |      |        |                                                                                                                                                                | 4 |
|               | 4.50                       | SPT  | 50 (25 for 10mm/50 for 0mm) | 4.30<br>4.50 |           |      |        | Possible SANDSTONE.                                                                                                                                            | 5 |
|               |                            |      |                             |              |           |      |        | End of Borehole at 4.500m                                                                                                                                      | 6 |
|               |                            |      |                             |              |           |      |        |                                                                                                                                                                | 7 |
|               |                            |      |                             |              |           |      |        |                                                                                                                                                                | 8 |
|               |                            |      |                             |              |           |      |        |                                                                                                                                                                | 9 |

| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|-----------|---------------|----------------|------------------|---------|
|           |               |                |                  |         |

Remarks:

| <div style="display: flex; justify-content: space-between;"> <div>  <p>Tel: 02920 735354<br/>info@terrafirmawales.co.uk<br/>www.terrafirmawales.co.uk</p> </div> <div> <h1>Borehole Log</h1> </div> <div> <p>Borehole No.<br/><b>BH05</b></p> <p>Sheet 1 of 1</p> </div> </div> |                            |      |                              |                                |                  |               |                 |                                                                                                                                                                                         |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|------------------------------|--------------------------------|------------------|---------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Project Name: Hadyn Terrace                                                                                                                                                                                                                                                                                                                                     |                            |      |                              | Project No: 17412              |                  | Co-ords:      | Hole Type<br>CP |                                                                                                                                                                                         |   |
| Location: Merthyr Tydfil                                                                                                                                                                                                                                                                                                                                        |                            |      |                              | Level:                         |                  | Scale<br>1:50 |                 |                                                                                                                                                                                         |   |
| Client: Merthyr Tydfil Housing association                                                                                                                                                                                                                                                                                                                      |                            |      |                              | Dates: 25/07/2022 - 26/07/2022 |                  | Logged By     |                 |                                                                                                                                                                                         |   |
| Water<br>Strikes                                                                                                                                                                                                                                                                                                                                                | Sample and In Situ Testing |      |                              | Depth<br>(m)                   | Level<br>(m)     | Well          | Legend          | Stratum Description                                                                                                                                                                     |   |
|                                                                                                                                                                                                                                                                                                                                                                 | Depth (m)                  | Type | Results                      |                                |                  |               |                 |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 | MADE GROUND. Black slightly clayey slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies.                          | 1 |
|                                                                                                                                                                                                                                                                                                                                                                 | 1.20                       | SPT  | 50 (8,11/50 for 185mm)       | 1.30                           |                  |               |                 |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 | 1.70                       | SPT  | N=24 (13,8/6,6,5,7)          | 1.70                           |                  |               |                 | MADE GROUND. Black slightly clayey slightly sandy gravelly SILT with high cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 | MADE GROUND. Black clayey gravelly SAND with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies                        | 2 |
|                                                                                                                                                                                                                                                                                                                                                                 | 2.70                       | SPT  | N=4 (1,1/1,1,1,1)            | 2.70                           |                  |               |                 |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 | MADE GROUND. Black gravelly SAND with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies                               | 3 |
|                                                                                                                                                                                                                                                                                                                                                                 | 3.70                       | SPT  | N=4 (1,1/1,1,1,1)            |                                |                  |               |                 |                                                                                                                                                                                         | 4 |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 |                                                                                                                                                                                         | 5 |
|                                                                                                                                                                                                                                                                                                                                                                 | 5.70                       | SPT  | N=20 (8,3/4,4,5,7)           | 5.70                           |                  |               |                 |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 | Stiff brownish grey gravelly CLAY with medium cobble content. Gravel is angular and subangular fine to coarse of sandstone.                                                             | 6 |
|                                                                                                                                                                                                                                                                                                                                                                 | 7.00                       | SPT  | 50 (6,13/50 for 100mm)       |                                |                  |               |                 |                                                                                                                                                                                         | 7 |
|                                                                                                                                                                                                                                                                                                                                                                 | 7.30                       | SPT  | 50 (25 for 22mm/50 for 31mm) | 7.30                           |                  |               |                 |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 | End of Borehole at 7.300m                                                                                                                                                               | 8 |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 |                                                                                                                                                                                         | 9 |
| Chiseling                                                                                                                                                                                                                                                                                                                                                       | Depth Top (m)              |      | Depth Base (m)               |                                | Duration (hh:mm) |               | Remarks         |                                                                                                                                                                                         |   |
|                                                                                                                                                                                                                                                                                                                                                                 |                            |      |                              |                                |                  |               |                 |                                                                                                                                                                                         |   |
| Remarks:                                                                                                                                                                                                                                                                                                                                                        |                            |      |                              |                                |                  |               |                 |                                                                                                                                                                                         |   |



# Borehole Log

Borehole No.

**BH06**

Sheet 1 of 1

|               |                                    |             |                         |          |      |           |    |
|---------------|------------------------------------|-------------|-------------------------|----------|------|-----------|----|
| Project Name: | Hadyn Terrace                      | Project No: | 17412                   | Co-ords: |      | Hole Type | CP |
| Location:     | Merthyr Tydfil                     | Level:      |                         | Scale    | 1:50 | Logged By |    |
| Client:       | Merthyr Tydfil Housing association | Dates:      | 26/07/2022 - 26/07/2022 |          |      |           |    |

| Water Strikes | Sample and In Situ Testing |      |                              | Depth (m) | Level (m) | Well | Legend | Stratum Description                                                                                                                                                       |   |
|---------------|----------------------------|------|------------------------------|-----------|-----------|------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|               | Depth (m)                  | Type | Results                      |           |           |      |        |                                                                                                                                                                           |   |
|               | 1.00                       | SPT  | N=5 (2,3/1,1,1,2)            | 1.00      |           |      |        | MADE GROUND. Black slightly gravelly silty SAND with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. | 1 |
|               | 2.00                       | SPT  | N=7 (2,2/2,1,1,3)            |           |           |      |        | MADE GROUND. Black slightly sandy gravelly CLAY with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. | 2 |
|               | 3.00                       | SPT  | N=4 (1,1/1,1,1,1)            |           |           |      |        |                                                                                                                                                                           | 3 |
|               | 4.00                       | SPT  | N=7 (1,2/1,2,2,2)            |           |           |      |        |                                                                                                                                                                           | 4 |
|               | 5.00                       | SPT  | 50 (19,1/50 for 106mm)       |           |           |      |        |                                                                                                                                                                           | 5 |
|               | 5.80                       | SPT  | 50 (25 for 75mm/50 for 95mm) | 5.50      |           |      |        | End of Borehole at 5.500m                                                                                                                                                 | 6 |
|               |                            |      |                              |           |           |      |        |                                                                                                                                                                           | 7 |
|               |                            |      |                              |           |           |      |        |                                                                                                                                                                           | 8 |
|               |                            |      |                              |           |           |      |        |                                                                                                                                                                           | 9 |

| Chiseling | Depth Top (m) | Depth Base (m) | Duration (hh:mm) | Remarks |
|-----------|---------------|----------------|------------------|---------|
|           |               |                |                  |         |

Remarks:



## Borehole No.

BH07

Sheet 1 of 1

|               |               |
|---------------|---------------|
| Project Name: | Hadyn Terrace |
|---------------|---------------|

|             |       |
|-------------|-------|
| Project No: | 17412 |
|-------------|-------|

Co-ords:

| Hole Type |
|-----------|
| CP        |

Location: Merthyr Tydfil

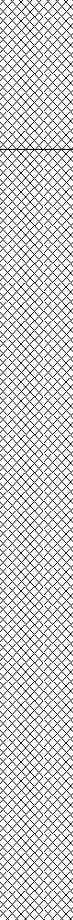
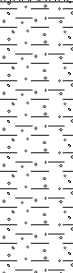
Level:

Scale  
1:50

Client: Merthyr Tydfil Housing association

Dates: 27/07/2022 - 27/07/2022

Logged By

| Water<br>Strikes | Sample and In Situ Testing |      |                            | Depth<br>(m) | Level<br>(m) | Well | Legend                                                                              | Stratum Description                                                                                                                                                       |   |
|------------------|----------------------------|------|----------------------------|--------------|--------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                  | Depth (m)                  | Type | Results                    |              |              |      |                                                                                     |                                                                                                                                                                           |   |
|                  | 6.20                       | SPT  | N=17 (2,4/4,3,4,6)         | 6.20         |              |      |   | MADE GROUND. Black slightly gravelly silty SAND with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. | 1 |
|                  |                            |      |                            |              |              |      |                                                                                     | MADE GROUND. Black slightly sandy gravelly CLAY with frequent ashy pockets. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mixed lithologies. | 2 |
|                  |                            |      |                            |              |              |      |                                                                                     |                                                                                                                                                                           | 3 |
|                  |                            |      |                            |              |              |      |                                                                                     |                                                                                                                                                                           | 4 |
|                  |                            |      |                            |              |              |      |                                                                                     |                                                                                                                                                                           | 5 |
|                  | 8.00                       | SPT  | 50 (25 for 0mm/50 for 0mm) | 8.00<br>8.20 |              |      |  | Stiff brownish grey slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of sandstone.        | 6 |
|                  |                            |      |                            |              |              |      |                                                                                     |                                                                                                                                                                           | 7 |
|                  |                            |      |                            |              |              |      |                                                                                     | Possible SANDSTONE.                                                                                                                                                       | 8 |
|                  |                            |      |                            |              |              |      |                                                                                     | End of Borehole at 8.200m                                                                                                                                                 | 9 |

Remarks:

**ANNEX F**  
**Laboratory Soil Chemical Test Results**



|                                                                                                                                                                            |               |                    |            |                    |                       |                       |                       |                       |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>SAL Reference:</b> 458945<br><b>Project Site:</b> Haydn Terrace<br><b>Customer Reference:</b> 13082<br><br><b>Soil</b> Analysed as Soil<br><b>Terra Firma (Wales) 1</b> |               |                    |            |                    |                       |                       |                       |                       |                       |
| <b>SAL Reference</b>                                                                                                                                                       |               |                    |            | <b>458945 002</b>  | <b>458945 003</b>     | <b>458945 004</b>     | <b>458945 006</b>     | <b>458945 008</b>     |                       |
| <b>Customer Sample Reference</b>                                                                                                                                           |               |                    |            | <b>TP1 @ 1.0m</b>  | <b>TP2 @ 0.1m</b>     | <b>TP2 @ 0.5m</b>     | <b>TP4 @ 0.1m</b>     | <b>TP8 @ 1.5m</b>     |                       |
| <b>Date Sampled</b>                                                                                                                                                        |               |                    |            | <b>23-FEB-2015</b> | <b>23-FEB-2015</b>    | <b>23-FEB-2015</b>    | <b>23-FEB-2015</b>    | <b>23-FEB-2015</b>    |                       |
| <b>Type</b>                                                                                                                                                                |               |                    |            | <b>Clay</b>        | <b>Topsoil</b>        | <b>Clay</b>           | <b>Clay</b>           | <b>Fill</b>           |                       |
| <b>Determinand</b>                                                                                                                                                         | <b>Method</b> | <b>Test Sample</b> | <b>LOD</b> | <b>Units</b>       |                       |                       |                       |                       |                       |
| Arsenic                                                                                                                                                                    | T257          | A40                | 2          | mg/kg              | 32                    | 33                    | 13                    | 31                    | 40                    |
| Cadmium                                                                                                                                                                    | T257          | A40                | 0.1        | mg/kg              | 0.4                   | 0.5                   | <0.1                  | 0.6                   | 6.4                   |
| Chromium                                                                                                                                                                   | T257          | A40                | 0.5        | mg/kg              | 19                    | 13                    | 14                    | 9.9                   | 94                    |
| Copper                                                                                                                                                                     | T257          | A40                | 2          | mg/kg              | 86                    | 32                    | 13                    | 25                    | 2800                  |
| Lead                                                                                                                                                                       | T257          | A40                | 2          | mg/kg              | 610                   | 96                    | 37                    | 72                    | 400                   |
| Mercury                                                                                                                                                                    | T245          | A40                | 1.0        | mg/kg              | 8.7                   | <1.0                  | <1.0                  | <1.0                  | <1.0                  |
| Nickel                                                                                                                                                                     | T257          | A40                | 0.5        | mg/kg              | 25                    | 17                    | 8.6                   | 8.4                   | 110                   |
| Selenium                                                                                                                                                                   | T257          | A40                | 3          | mg/kg              | <3                    | <3                    | <3                    | <3                    | <3                    |
| Zinc                                                                                                                                                                       | T257          | A40                | 2          | mg/kg              | 180                   | 120                   | 41                    | 200                   | 760                   |
| Asbestos ID                                                                                                                                                                | T27           | A40                |            |                    | Asbestos not detected | Asbestos not detected | Asbestos not detected | Asbestos not detected | Asbestos not detected |
| Chromium (trivalent)                                                                                                                                                       | T85           | A40                | 2          | mg/kg              | 19                    | 13                    | 14                    | 10                    | 94                    |
| Chromium VI                                                                                                                                                                | T6            | A40                | 1          | mg/kg              | <1                    | <1                    | <1                    | <1                    | <1                    |
| Organic Matter                                                                                                                                                             | T258          | A40                | 0.5        | %                  | 4.6                   | 5.7                   | 2.0                   | 5.4                   | 5.7                   |
| pH                                                                                                                                                                         | T7            | A40                |            |                    | 8.5                   | 7.1                   | 5.9                   | 5.5                   | 7.8                   |
| SO4(Total)                                                                                                                                                                 | T102          | A40                | 0.02       | %                  | 0.19                  | 0.10                  | 0.04                  | 0.08                  | 0.17                  |
| Cyanide(Total)                                                                                                                                                             | T4            | AR                 | 1          | mg/kg              | <1                    | <1                    | <1                    | <1                    | <1                    |
| Phenols(Mono)                                                                                                                                                              | T221          | AR                 | 1.0        | mg/kg              | <1.0                  | 1.4                   | <1.0                  | 1.5                   | <1.0                  |
| Moisture @ 105 C                                                                                                                                                           | T162          | AR                 | 0.1        | %                  | 40                    | 28                    | 18                    | 23                    | 24                    |
| Retained on 2mm                                                                                                                                                            | T2            | A40                | 0.1        | %                  | 9.9                   | 6.6                   | 8.5                   | 6.0                   | 6.3                   |

|                                                                                                                                                                            |               |                    |            |                    |                       |                       |                       |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|------------|--------------------|-----------------------|-----------------------|-----------------------|--|--|
| <b>SAL Reference:</b> 458945<br><b>Project Site:</b> Haydn Terrace<br><b>Customer Reference:</b> 13082<br><br><b>Soil</b> Analysed as Soil<br><b>Terra Firma (Wales) 1</b> |               |                    |            |                    |                       |                       |                       |  |  |
| <b>SAL Reference</b>                                                                                                                                                       |               |                    |            | <b>458945 009</b>  | <b>458945 010</b>     | <b>458945 012</b>     |                       |  |  |
| <b>Customer Sample Reference</b>                                                                                                                                           |               |                    |            | <b>TP5 @ 1.0m</b>  | <b>WS1 @ 0.5m</b>     | <b>WS3 @ 1.0m</b>     |                       |  |  |
| <b>Date Sampled</b>                                                                                                                                                        |               |                    |            | <b>23-FEB-2015</b> | <b>23-FEB-2015</b>    | <b>23-FEB-2015</b>    |                       |  |  |
| <b>Type</b>                                                                                                                                                                |               |                    |            | <b>Fill</b>        | <b>Fill</b>           | <b>Fill</b>           |                       |  |  |
| <b>Determinand</b>                                                                                                                                                         | <b>Method</b> | <b>Test Sample</b> | <b>LOD</b> | <b>Units</b>       |                       |                       |                       |  |  |
| Arsenic                                                                                                                                                                    | T257          | A40                | 2          | mg/kg              | 40                    | 15                    | 54                    |  |  |
| Cadmium                                                                                                                                                                    | T257          | A40                | 0.1        | mg/kg              | 0.8                   | 0.5                   | 1.4                   |  |  |
| Chromium                                                                                                                                                                   | T257          | A40                | 0.5        | mg/kg              | 30                    | 10                    | 50                    |  |  |
| Copper                                                                                                                                                                     | T257          | A40                | 2          | mg/kg              | 280                   | 70                    | 290                   |  |  |
| Lead                                                                                                                                                                       | T257          | A40                | 2          | mg/kg              | 230                   | 85                    | 300                   |  |  |
| Mercury                                                                                                                                                                    | T245          | A40                | 1.0        | mg/kg              | <1.0                  | <1.0                  | <1.0                  |  |  |
| Nickel                                                                                                                                                                     | T257          | A40                | 0.5        | mg/kg              | 68                    | 16                    | 100                   |  |  |
| Selenium                                                                                                                                                                   | T257          | A40                | 3          | mg/kg              | <3                    | <3                    | <3                    |  |  |
| Zinc                                                                                                                                                                       | T257          | A40                | 2          | mg/kg              | 740                   | 140                   | 730                   |  |  |
| Asbestos ID                                                                                                                                                                | T27           | A40                |            |                    | Asbestos not detected | Asbestos not detected | Asbestos not detected |  |  |
| Chromium (trivalent)                                                                                                                                                       | T85           | A40                | 2          | mg/kg              | 30                    | 10                    | 50                    |  |  |
| Chromium VI                                                                                                                                                                | T6            | A40                | 1          | mg/kg              | <1                    | <1                    | <1                    |  |  |
| Organic Matter                                                                                                                                                             | T258          | A40                | 0.5        | %                  | 5.5                   | 5.6                   | 5.9                   |  |  |
| pH                                                                                                                                                                         | T7            | A40                |            |                    | 8.1                   | 8.3                   | 8.0                   |  |  |
| SO4(Total)                                                                                                                                                                 | T102          | A40                | 0.02       | %                  | 0.13                  | 0.06                  | 0.30                  |  |  |
| Cyanide(Total)                                                                                                                                                             | T4            | AR                 | 1          | mg/kg              | <1                    | <1                    | 3                     |  |  |
| Phenols(Mono)                                                                                                                                                              | T221          | AR                 | 1.0        | mg/kg              | <1.0                  | 1.2                   | 3.0                   |  |  |
| Moisture @ 105 C                                                                                                                                                           | T162          | AR                 | 0.1        | %                  | 31                    | 6.0                   | 32                    |  |  |
| Retained on 2mm                                                                                                                                                            | T2            | A40                | 0.1        | %                  | (32) <0.1             | (32) <0.1             | (32) <0.1             |  |  |











|                                                                                                        |               |                    |            |              |                    |
|--------------------------------------------------------------------------------------------------------|---------------|--------------------|------------|--------------|--------------------|
| <b>SAL Reference:</b> 458945<br><b>Project Site:</b> Haydn Terrace<br><b>Customer Reference:</b> 13082 |               |                    |            |              |                    |
| <b>Soil</b> Analysed as Soil<br><b>VOC (SE)</b>                                                        |               |                    |            |              |                    |
| <b>SAL Reference</b>                                                                                   |               |                    |            |              | <b>458945 009</b>  |
| <b>Customer Sample Reference</b>                                                                       |               |                    |            |              | <b>TP5 @ 1.0m</b>  |
| <b>Date Sampled</b>                                                                                    |               |                    |            |              | <b>23-FEB-2015</b> |
| <b>Type</b>                                                                                            |               |                    |            |              | <b>Fill</b>        |
| <b>Determinand</b>                                                                                     | <b>Method</b> | <b>Test Sample</b> | <b>LOD</b> | <b>Units</b> |                    |
| Trichlorofluoromethane                                                                                 | T54           | AR                 | 5          | µg/kg        | <5                 |
| Vinyl chloride                                                                                         | T54           | AR                 | 10         | µg/kg        | <10                |

## Index to symbols used in 458945-1

| Value | Description                     |
|-------|---------------------------------|
| A40   | Assisted dried < 40C            |
| AR    | As Received                     |
| 32    | Whole sample was crushed        |
| S     | Analysis was subcontracted      |
| M     | Analysis is MCERTS accredited   |
| U     | Analysis is UKAS accredited     |
| N     | Analysis is not UKAS accredited |

## Notes

|                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sub contracted analysis performed by REC Asbestos Limited                                                                                    |
| Retained on 2mm is removed before analysis                                                                                                   |
| Reported results on as received samples are corrected to a 105 degree centigrade dry weight basis except TPH c5-c35 aromatic/aliphatic split |

## Method Index

| Value | Description                           |
|-------|---------------------------------------|
| T102  | ICP/OES (HCl extract)                 |
| T258  | Titration (Dichromate)                |
| T2    | Grav                                  |
| T162  | Grav (1 Dec) (105 C)                  |
| T209  | GC/MS(Head Space)(MCERTS)             |
| T257  | ICP/OES (SIM) (Aqua Regia Extraction) |
| T85   | Calc                                  |
| T245  | ICP/OES(Aqua Regia Extraction)        |
| T6    | ICP/OES                               |
| T16   | GC/MS                                 |
| T54   | GC/MS (Headspace)                     |
| T27   | PLM                                   |
| T4    | Colorimetry                           |
| T7    | Probe                                 |
| T221  | Colorimetry (CE)                      |
| T207  | GC/MS (MCERTS)                        |
| T219  | GC/FID (SE)                           |

## Accreditation Summary

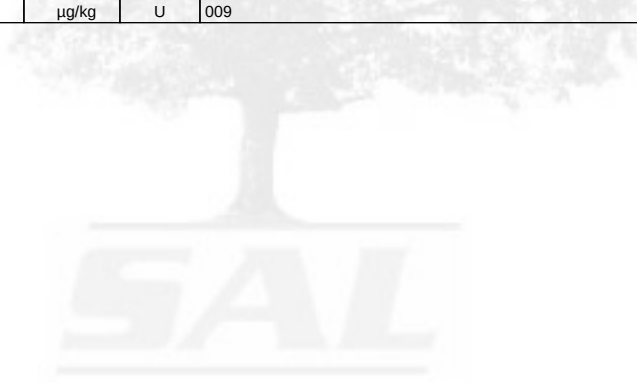
| Determinand | Method | Test Sample | LOD | Units | Symbol | SAL References |
|-------------|--------|-------------|-----|-------|--------|----------------|
| Arsenic     | T257   | A40         | 2   | mg/kg | M      | 002-004,006    |
| Arsenic     | T257   | A40         | 2.0 | mg/kg | U      | 008-010,012    |
| Cadmium     | T257   | A40         | 0.1 | mg/kg | M      | 002-004,006    |
| Cadmium     | T257   | A40         | 0.1 | mg/kg | U      | 008-010,012    |
| Chromium    | T257   | A40         | 0.5 | mg/kg | M      | 002-004,006    |
| Chromium    | T257   | A40         | 0.5 | mg/kg | U      | 008-010,012    |
| Copper      | T257   | A40         | 2   | mg/kg | U      | 008-010,012    |
| Copper      | T257   | A40         | 2   | mg/kg | M      | 002-004,006    |
| Lead        | T257   | A40         | 2   | mg/kg | M      | 002-004,006    |
| Lead        | T257   | A40         | 2   | mg/kg | U      | 008-010,012    |



| Determinand                | Method | Test Sample | LOD  | Units | Symbol | SAL References          |
|----------------------------|--------|-------------|------|-------|--------|-------------------------|
| Mercury                    | T245   | A40         | 1.0  | mg/kg | U      | 002-004,006,008-010,012 |
| Nickel                     | T257   | A40         | 0.5  | mg/kg | U      | 008-010,012             |
| Nickel                     | T257   | A40         | 0.5  | mg/kg | M      | 002-004,006             |
| Selenium                   | T257   | A40         | 3    | mg/kg | U      | 002-004,006,008-010,012 |
| Zinc                       | T257   | A40         | 2    | mg/kg | M      | 002-004,006             |
| Zinc                       | T257   | A40         | 2    | mg/kg | U      | 008-010,012             |
| Asbestos ID                | T27    | A40         |      |       | SU     | 002-004,006,008-010,012 |
| Chromium (trivalent)       | T85    | A40         | 2    | mg/kg | N      | 002-004,006,008-010,012 |
| Chromium VI                | T6     | A40         | 1    | mg/kg | N      | 002-004,006,008-010,012 |
| Organic Matter             | T258   | A40         | 0.5  | %     | N      | 002-004,006,008-010,012 |
| pH                         | T7     | A40         |      |       | M      | 002-004,006             |
| pH                         | T7     | A40         |      |       | U      | 008-010,012             |
| SO4(Total)                 | T102   | A40         | 0.02 | %     | M      | 002-004,006             |
| SO4(Total)                 | T102   | A40         | 0.02 | %     | U      | 008-010,012             |
| Cyanide(Total)             | T4     | AR          | 1    | mg/kg | U      | 008-010,012             |
| Cyanide(Total)             | T4     | AR          | 1    | mg/kg | M      | 002-004,006             |
| Phenols(Mono)              | T221   | AR          | 1.0  | mg/kg | M      | 002-004,006             |
| Phenols(Mono)              | T221   | AR          | 1.0  | mg/kg | U      | 008-010,012             |
| Moisture @ 105 C           | T162   | AR          | 0.1  | %     | N      | 002-004,006,008-010,012 |
| Retained on 2mm            | T2     | A40         | 0.1  | %     | N      | 002-004,006,008-010,012 |
| Naphthalene                | T16    | AR          | 0.1  | mg/kg | U      | 002-004,006,008-010,012 |
| Acenaphthylene             | T16    | AR          | 0.1  | mg/kg | U      | 002-004,006,008-010,012 |
| Acenaphthene               | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Acenaphthene               | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Fluorene                   | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Fluorene                   | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Phenanthrene               | T16    | AR          | 0.1  | mg/kg | U      | 002-004,006,008-010,012 |
| Anthracene                 | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Anthracene                 | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Fluoranthene               | T16    | AR          | 0.1  | mg/kg | N      | 002-004,006,008-010,012 |
| Pyrene                     | T16    | AR          | 0.1  | mg/kg | N      | 002-004,006,008-010,012 |
| Benzo(a)Anthracene         | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Benzo(a)Anthracene         | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Chrysene                   | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Chrysene                   | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Benzo(b)fluoranthene       | T16    | AR          | 0.1  | mg/kg | U      | 002-004,006,008-010,012 |
| Benzo(k)fluoranthene       | T16    | AR          | 0.1  | mg/kg | N      | 002-004,006,008-010,012 |
| Benzo(a)Pyrene             | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Benzo(a)Pyrene             | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Indeno(123-cd)Pyrene       | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Indeno(123-cd)Pyrene       | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Dibenzo(ah)Anthracene      | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Dibenzo(ah)Anthracene      | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| Benzo(ghi)Perylene         | T16    | AR          | 0.1  | mg/kg | M      | 002-004,006             |
| Benzo(ghi)Perylene         | T16    | AR          | 0.1  | mg/kg | U      | 008-010,012             |
| PAH(total)                 | T16    | AR          | 0.1  | mg/kg | U      | 002-004,006,008-010,012 |
| 1,2,4-Trichlorobenzene     | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 1,2-Dichlorobenzene        | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 1,3-Dichlorobenzene        | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 1,4-Dichlorobenzene        | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2,4,5-Trichlorophenol      | T16    | AR          | 0.1  | mg/kg | N      | 009                     |
| 2,4,6-Trichlorophenol      | T16    | AR          | 0.1  | mg/kg | N      | 009                     |
| 2,4-Dichlorophenol         | T16    | AR          | 0.1  | mg/kg | N      | 009                     |
| 2,4-Dimethylphenol         | T207   | AR          | 0.1  | mg/kg | N      | 009                     |
| 2,4-Dinitrotoluene         | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2,6-Dinitrotoluene         | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-Chloronaphthalene        | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-Chlorophenol             | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-methyl phenol            | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-Methylnaphthalene        | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-Nitroaniline             | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 2-Nitrophenol              | T207   | AR          | 0.1  | mg/kg | N      | 009                     |
| 3-Nitroaniline             | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 3/4-Methylphenol           | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 4-Bromophenyl phenylether  | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 4-Chloro-3-methylphenol    | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 4-Chloroaniline            | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 4-Chlorophenyl phenylether | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| 4-Nitroaniline             | T207   | AR          | 0.1  | mg/kg | U      | 009                     |
| Acenaphthene               | T207   | AR          | 0.1  | mg/kg | U      | 009                     |

| Determinand                   | Method | Test Sample | LOD  | Units | Symbol | SAL References |
|-------------------------------|--------|-------------|------|-------|--------|----------------|
| Acenaphthylene                | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Anthracene                    | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Azobenzene                    | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Benzo(a)Anthracene            | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Benzo(a)Pyrene                | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Benzo(b/k)Fluoranthene        | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Benzo(ghi)Perylene            | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Bis (2-chloroethoxy) methane  | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Bis (2-chloroethyl) ether     | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Bis (2-chloroisopropyl) ether | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Bis (2-ethylhexyl)phthalate   | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Butyl benzylphthalate         | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Carbazole                     | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Chrysene                      | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Di-n-butylphthalate           | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Di-n-octylphthalate           | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Dibenzo(ah)Anthracene         | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Dibenzofuran                  | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Diethyl phthalate             | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Dimethyl phthalate            | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Fluoranthene                  | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Fluorene                      | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Hexachlorobenzene             | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Hexachlorobutadiene           | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Hexachlorocyclopentadiene     | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Hexachloroethane              | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Indeno(123-cd)Pyrene          | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Isophorone                    | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Naphthalene                   | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Nitrobenzene                  | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Pentachlorophenol             | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Phenanthrene                  | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Phenol                        | T207   | AR          | 0.1  | mg/kg | U      | 009            |
| Pyrene                        | T207   | AR          | 0.1  | mg/kg | N      | 009            |
| Toluene                       | T209   | AR          | 10   | µg/kg | U      | 009            |
| EthylBenzene                  | T209   | AR          | 10   | µg/kg | U      | 009            |
| M/P Xylene                    | T209   | AR          | 10   | µg/kg | U      | 009            |
| O Xylene                      | T209   | AR          | 10   | µg/kg | U      | 009            |
| TPH (C5-C6 aliphatic)         | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C6-C7 aromatic)          | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C6-C8 aliphatic)         | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C7-C8 aromatic)          | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C8-C10 aliphatic)        | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C8-C10 aromatic)         | T54    | AR          | 0.10 | mg/kg | N      | 009            |
| TPH (C10-C12 aliphatic)       | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C10-C12 aromatic)        | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C12-C16 aliphatic)       | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C12-C16 aromatic)        | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C16-C21 aliphatic)       | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C16-C21 aromatic)        | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C21-C35 aliphatic)       | T219   | AR          | 2    | mg/kg | N      | 009            |
| TPH (C21-C35 aromatic)        | T219   | AR          | 2    | mg/kg | N      | 009            |
| 1,1,1,2-Tetrachloroethane     | T209   | AR          | 50   | µg/kg | U      | 009            |
| 1,1,1,1-Trichloroethane       | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,1,1,2-Tetrachloroethane     | T209   | AR          | 50   | µg/kg | U      | 009            |
| 1,1,1,2-Trichloroethane       | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,1-Dichloroethane            | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,1-Dichloroethylene          | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,1-Dichloropropene           | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2,3-Trichlorobenzene        | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2,3-Trichloropropane        | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2,4-Trichlorobenzene        | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2,4-Trimethylbenzene        | T54    | AR          | 50   | µg/kg | U      | 009            |
| 1,2-Dibromo-3-Chloropropane   | T54    | AR          | 10   | µg/kg | U      | 009            |
| 1,2-dibromoethane             | T209   | AR          | 50   | µg/kg | U      | 009            |
| 1,2-Dichlorobenzene           | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2-Dichloroethane            | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,2-Dichloropropane           | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,3,5-Trimethylbenzene        | T54    | AR          | 5    | µg/kg | U      | 009            |
| 1,3-Dichlorobenzene           | T54    | AR          | 5    | µg/kg | U      | 009            |

| Determinand                | Method | Test Sample | LOD | Units | Symbol | SAL References |
|----------------------------|--------|-------------|-----|-------|--------|----------------|
| 1,3-Dichloropropane        | T209   | AR          | 50  | µg/kg | U      | 009            |
| 1,4-Dichlorobenzene        | T54    | AR          | 5   | µg/kg | U      | 009            |
| Ethyl-2-Methylbenzene      | T54    | AR          | 5   | µg/kg | U      | 009            |
| 2,2-Dichloropropane        | T54    | AR          | 5   | µg/kg | U      | 009            |
| 2-Chlorotoluene            | T54    | AR          | 5   | µg/kg | U      | 009            |
| 4-Chlorotoluene            | T54    | AR          | 5   | µg/kg | U      | 009            |
| Benzene                    | T209   | AR          | 10  | µg/kg | U      | 009            |
| Bromobenzene               | T54    | AR          | 5   | µg/kg | U      | 009            |
| Bromochloromethane         | T54    | AR          | 5   | µg/kg | U      | 009            |
| Bromodichloromethane       | T54    | AR          | 5   | µg/kg | U      | 009            |
| Bromoform                  | T209   | AR          | 50  | µg/kg | U      | 009            |
| Bromomethane               | T54    | AR          | 5   | µg/kg | U      | 009            |
| Carbon tetrachloride       | T54    | AR          | 5   | µg/kg | U      | 009            |
| Chlorobenzene              | T54    | AR          | 5   | µg/kg | U      | 009            |
| Chlorodibromomethane       | T54    | AR          | 5   | µg/kg | U      | 009            |
| Chloroethane               | T209   | AR          | 50  | µg/kg | U      | 009            |
| Chloroform                 | T54    | AR          | 5   | µg/kg | U      | 009            |
| Chloromethane              | T209   | AR          | 50  | µg/kg | N      | 009            |
| Cis-1,2-Dichloroethylene   | T54    | AR          | 5   | µg/kg | U      | 009            |
| Cis-1,3-Dichloropropene    | T54    | AR          | 5   | µg/kg | U      | 009            |
| Dibromomethane             | T54    | AR          | 5   | µg/kg | U      | 009            |
| Dichlorodifluoromethane    | T209   | AR          | 50  | µg/kg | N      | 009            |
| Hexachlorobutadiene        | T209   | AR          | 10  | µg/kg | U      | 009            |
| Isopropyl benzene          | T54    | AR          | 50  | µg/kg | U      | 009            |
| m/p ethyl toluene          | T54    | AR          | 5   | µg/kg | U      | 009            |
| Methyl tert-Butyl Ether    | T209   | AR          | 10  | µg/kg | U      | 009            |
| n-Butylbenzene             | T54    | AR          | 10  | µg/kg | U      | 009            |
| n-Propylbenzene            | T54    | AR          | 50  | µg/kg | U      | 009            |
| p-Isopropyltoluene         | T54    | AR          | 5   | µg/kg | U      | 009            |
| S-Butylbenzene             | T54    | AR          | 5   | µg/kg | U      | 009            |
| Styrene                    | T54    | AR          | 50  | µg/kg | U      | 009            |
| T-Butylbenzene             | T54    | AR          | 5   | µg/kg | U      | 009            |
| Tertiary amyl methyl ether | T54    | AR          | 5   | µg/kg | U      | 009            |
| Tetrachloroethene          | T54    | AR          | 5   | µg/kg | U      | 009            |
| Trans-1,2-Dichloroethene   | T54    | AR          | 5   | µg/kg | U      | 009            |
| Trans-1,3-Dichloropropene  | T54    | AR          | 5   | µg/kg | U      | 009            |
| Trichloroethene            | T54    | AR          | 5   | µg/kg | U      | 009            |
| Trichlorofluoromethane     | T54    | AR          | 5   | µg/kg | U      | 009            |
| Vinyl chloride             | T54    | AR          | 10  | µg/kg | U      | 009            |







# Final Report

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**Report No.:** 25-15114-1

**Initial Date of Issue:** 16-May-2025

**Re-Issue Details:**

**Client** Terra Firma

**Client Address:** 5 Deryn Court  
Wharfedale Road  
Pentwyn  
Cardiff  
CF23 7HA

**Contact(s):** f.linklater@tfwgroup.co.uk

**Project** HillCrest

**Quotation No.:** **Date Received:** 07-May-2025

**Order No.:** 17412 **Date Instructed:** 07-May-2025

**No. of Samples:** 8

**Turnaround (Wkdays):** 5 **Results Due:** 13-May-2025

**Date Approved:** 16-May-2025

**Approved By:**

**Details:** David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

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## Results - Soil

**Project: HillCrest**

|                             |                  |                             |            |              |             |                      |                      |                      |                      |                      |                      |                      |
|-----------------------------|------------------|-----------------------------|------------|--------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Client: Terra Firma</b>  |                  | <b>Chemtest Job No.:</b>    |            | 25-15114     | 25-15114    | 25-15114             | 25-15114             | 25-15114             | 25-15114             | 25-15114             | 25-15114             | 25-15114             |
| <b>Quotation No.:</b>       |                  | <b>Chemtest Sample ID.:</b> |            | 1969671      | 1969672     | 1969673              | 1969674              | 1969675              | 1969676              | 1969677              |                      |                      |
| <b>Order No.: 17412</b>     |                  | <b>Client Sample Ref.:</b>  |            | TP06 0.75    | TP08 0.3    | TP07 0.1             | TP08 1.8             | TP06 1.7             | TP08 1.0             | TP07 1.4             |                      |                      |
|                             |                  | <b>Client Sample ID.:</b>   |            | TP06 0.75    | TP08 0.3    | TP07 0.1             | TP08 1.8             | TP06 1.7             | TP08 1.0             | TP07 1.4             |                      |                      |
|                             |                  | <b>Client Reference:</b>    |            | TP06         | TP08        | TP07                 | TP08                 | TP06                 | TP08                 | TP07                 |                      |                      |
|                             |                  | <b>Sample Type:</b>         |            | SOIL         | SOIL        | SOIL                 | SOIL                 | SOIL                 | SOIL                 | SOIL                 |                      |                      |
|                             |                  | <b>Top Depth (m):</b>       |            | 0.75         | 0.3         | 0.1                  | 1.8                  | 1.7                  | 1.0                  | 1.4                  |                      |                      |
|                             |                  | <b>Bottom Depth (m):</b>    |            | 0.75         | 0.3         | 0.1                  | 1.8                  | 1.7                  | 1.0                  | 1.4                  |                      |                      |
|                             |                  | <b>Date Sampled:</b>        |            | 01-May-2025  | 02-May-2025 | 02-May-2025          | 02-May-2025          | 02-May-2025          | 02-May-2025          | 02-May-2025          |                      |                      |
|                             |                  | <b>Time Sampled:</b>        |            | 12:00        | 12:00       | 12:00                | 12:00                | 12:00                | 12:00                | 12:00                |                      |                      |
|                             |                  | <b>Asbestos Lab:</b>        |            | DURHAM       | DURHAM      | DURHAM               | DURHAM               | DURHAM               | DURHAM               | DURHAM               |                      |                      |
| <b>Determinand</b>          | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |                      |                      |                      |                      |                      |                      |                      |
| ACM Type                    |                  | N                           | 2192       |              | N/A         | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Asbestos Identification     |                  | U                           | 2192       |              | N/A         | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected |
| ACM Detection Stage         |                  | U                           | 2192       |              | N/A         | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Moisture                    |                  | N                           | 2030       | %            | 0.020       | 14                   | 18                   | 22                   | 25                   | 23                   | 23                   | 30                   |
| Soil Colour                 |                  | N                           | 2040       |              | N/A         | Brown                | Brown                | Brown                | Brown                | Brown                | Brown                | Brown                |
| Other Material              |                  | N                           | 2040       |              | N/A         | Stones, Roots and    | Stones, Roots and    | Stones, Roots and    | Stones, Roots and    | Stones, Roots and    | Stones, Roots and    | Stones, Roots and    |
| Soil Texture                |                  | N                           | 2040       |              | N/A         | Loam                 | Clay                 | Sand                 | Loam                 | Sand                 | Loam                 | Sand                 |
| pH at 20C                   |                  | M                           | 2010       |              | 4.0         | 8.2                  | 7.6                  | 7.8                  | 7.8                  | 8.0                  | 8.0                  | 7.8                  |
| Boron (Hot Water Soluble)   |                  | M                           | 2120       | mg/kg        | 0.40        | < 0.40               | 0.61                 | 0.55                 | 0.48                 | 0.49                 | < 0.40               | 0.86                 |
| Cyanide (Total)             |                  | M                           | 2300       | mg/kg        | 0.50        | < 0.50               | < 0.50               | < 0.50               | 3.1                  | 0.50                 | < 0.50               | 2.6                  |
| Sulphate (Acid Soluble)     |                  | U                           | 2430       | %            | 0.010       | 0.051                | 0.058                | 0.096                | 0.071                | 0.12                 | 0.051                | 0.11                 |
| Arsenic                     |                  | M                           | 2455       | mg/kg        | 0.5         | 22                   | 20                   | 34                   | 24                   | 47                   | 26                   | 48                   |
| Cadmium                     |                  | M                           | 2455       | mg/kg        | 0.10        | 0.81                 | 0.60                 | 1.3                  | 0.56                 | 1.0                  | 0.26                 | 1.6                  |
| Chromium                    |                  | M                           | 2455       | mg/kg        | 0.5         | 17                   | 16                   | 20                   | 20                   | 44                   | 23                   | 42                   |
| Mercury Low Level           |                  | N                           | 2450       | mg/kg        | 0.05        | 0.07                 | 0.09                 | 0.21                 | 0.09                 | 0.31                 | 0.07                 | 0.21                 |
| Copper                      |                  | M                           | 2455       | mg/kg        | 0.50        | 32                   | 46                   | 1200                 | 210                  | 180                  | 110                  | 330                  |
| Nickel                      |                  | M                           | 2455       | mg/kg        | 0.50        | 15                   | 18                   | 41                   | 38                   | 64                   | 57                   | 72                   |
| Lead                        |                  | M                           | 2455       | mg/kg        | 0.50        | 64                   | 89                   | 400                  | 270                  | 640                  | 120                  | 150                  |
| Selenium                    |                  | M                           | 2455       | mg/kg        | 0.25        | 0.62                 | 0.86                 | 1.2                  | 1.1                  | 1.7                  | 0.99                 | 1.6                  |
| Zinc                        |                  | M                           | 2455       | mg/kg        | 0.50        | 160                  | 120                  | 820                  | 370                  | 590                  | 130                  | 310                  |
| Chromium (Trivalent)        |                  | N                           | 2490       | mg/kg        | 1.0         | 17                   | 16                   | 20                   | 20                   | 44                   | 23                   | 42                   |
| Chromium (Hexavalent)       |                  | N                           | 2490       | mg/kg        | 0.50        | < 0.50               | < 0.50               | < 0.50               | < 0.50               | < 0.50               | < 0.50               | < 0.50               |
| Aliphatic VPH >C5-C6        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               |
| Aliphatic VPH >C6-C7        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               |
| Aliphatic VPH >C7-C8        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               |
| Aliphatic VPH >C6-C8 (Sum)  | HS_2D_AL         | N                           | 2780       | mg/kg        | 0.10        | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               |
| Aliphatic VPH >C8-C10       | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               |
| Total Aliphatic VPH >C5-C10 | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.25        | < 0.25               | < 0.25               | < 0.25               | < 0.25               | < 0.25               | < 0.25               | < 0.25               |
| Aliphatic EPH >C10-C12 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00        | < 2.0                | < 2.0                | < 2.0                | < 2.0                | < 2.0                | < 2.0                | < 2.0                |
| Aliphatic EPH >C12-C16 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 1.00        | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | 4.1                  |
| Aliphatic EPH >C16-C21 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00        | < 2.0                | < 2.0                | < 2.0                | < 2.0                | < 2.0                | < 2.0                | 2.7                  |
| Aliphatic EPH >C21-C35 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 3.00        | 23                   | 22                   | 18                   | 25                   | 24                   | 22                   | 27                   |
| Aliphatic EPH >C35-C40 MC   | EH_2D_AL_#1      | N                           | 2690       | mg/kg        | 10.00       | < 10                 | < 10                 | < 10                 | < 10                 | 12                   | < 10                 | 12                   |

## Results - Soil

**Project: HillCrest**

|                                 |                |                      |      |       |       |             |             |             |             |             |             |             |
|---------------------------------|----------------|----------------------|------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Client: Terra Firma             |                | Chemtest Job No.:    |      |       |       | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    |
| Quotation No.:                  |                | Chemtest Sample ID.: |      |       |       | 1969671     | 1969672     | 1969673     | 1969674     | 1969675     | 1969676     | 1969677     |
| Order No.: 17412                |                | Client Sample Ref.:  |      |       |       | TP06 0.75   | TP08 0.3    | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                                 |                | Client Sample ID.:   |      |       |       | TP06 0.75   | TP08 0.3    | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                                 |                | Client Reference:    |      |       |       | TP06        | TP08        | TP07        | TP08        | TP06        | TP08        | TP07        |
|                                 |                | Sample Type:         |      |       |       | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                                 |                | Top Depth (m):       |      |       |       | 0.75        | 0.3         | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                                 |                | Bottom Depth (m):    |      |       |       | 0.75        | 0.3         | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                                 |                | Date Sampled:        |      |       |       | 01-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 |
|                                 |                | Time Sampled:        |      |       |       | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       |
|                                 |                | Asbestos Lab:        |      |       |       | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| Determinand                     | HWOL Code      | Accred.              | SOP  | Units | LOD   |             |             |             |             |             |             |             |
| Total Aliphatic EPH >C10-C35 MC | EH_2D_AL_#1    | M                    | 2690 | mg/kg | 5.00  | 24          | 22          | 18          | 26          | 25          | 22          | 34          |
| Total Aliphatic EPH >C10-C40 MC | EH_2D_AL_#1    | N                    | 2690 | mg/kg | 10.00 | 24          | 22          | 18          | 26          | 36          | 22          | 46          |
| Aromatic VPH >C5-C7             | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      |
| Aromatic VPH >C7-C8             | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      |
| Aromatic VPH >C8-C10            | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      | < 0.05      |
| Total Aromatic VPH >C5-C10      | HS_2D_AR       | U                    | 2780 | mg/kg | 0.25  | < 0.25      | < 0.25      | < 0.25      | < 0.25      | < 0.25      | < 0.25      | < 0.25      |
| Aromatic EPH >C10-C12 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 1.00  | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic EPH >C12-C16 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 1.00  | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | 2.7         |
| Aromatic EPH >C16-C21 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 2.00  | 21          | 9.6         | 13          | 4.1         | 6.8         | 13          | 81          |
| Aromatic EPH >C21-C35 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 2.00  | 36          | 55          | 50          | < 2.0       | 52          | 35          | 290         |
| Aromatic EPH >C35-C40 MC        | EH_2D_AR_#1    | N                    | 2690 | mg/kg | 1.00  | 12          | 18          | 13          | 10          | 17          | 15          | 48          |
| Total Aromatic EPH >C10-C35 MC  | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 5.00  | 57          | 64          | 63          | 5.9         | 59          | 48          | 370         |
| Total Aromatic EPH >C10-C40 MC  | EH_2D_AR_#1    | N                    | 2690 | mg/kg | 10.00 | 69          | 82          | 77          | 16          | 75          | 64          | 420         |
| Total VPH >C5-C10               | HS_2D_Total    | U                    | 2780 | mg/kg | 0.50  | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Total EPH >C10-C35 MC           | EH_2D_Total_#1 | U                    | 2690 | mg/kg | 10.00 | 80          | 87          | 82          | 31          | 83          | 71          | 400         |
| Total EPH >C10-C40 MC           | EH_2D_Total_#1 | N                    | 2690 | mg/kg | 10.00 | 92          | 100         | 95          | 41          | 110         | 86          | 460         |
| Naphthalene                     |                | M                    | 2700 | mg/kg | 0.10  | < 0.10      | 0.21        | 0.47        | 0.51        | < 0.10      | < 0.10      | 0.65        |
| Acenaphthylene                  |                | M                    | 2700 | mg/kg | 0.10  | < 0.10      | 0.14        | 0.15        | 0.17        | < 0.10      | < 0.10      | 0.11        |
| Acenaphthene                    |                | M                    | 2700 | mg/kg | 0.10  | < 0.10      | 0.44        | 0.56        | 0.29        | < 0.10      | < 0.10      | 0.52        |
| Fluorene                        |                | M                    | 2700 | mg/kg | 0.10  | < 0.10      | 0.37        | 0.60        | 0.35        | < 0.10      | < 0.10      | 0.56        |
| Phenanthrene                    |                | M                    | 2700 | mg/kg | 0.10  | 0.26        | 3.0         | 5.7         | 1.3         | 2.6         | 1.4         | 2.9         |
| Anthracene                      |                | M                    | 2700 | mg/kg | 0.10  | < 0.10      | 0.91        | 1.1         | 0.18        | 0.30        | 0.11        | 1.0         |
| Fluoranthene                    |                | M                    | 2700 | mg/kg | 0.10  | 0.62        | 9.8         | 11          | 2.3         | 3.4         | 2.1         | 5.1         |
| Pyrene                          |                | M                    | 2700 | mg/kg | 0.10  | 0.58        | 8.0         | 8.8         | 1.7         | 2.9         | 1.7         | 4.4         |
| Benzo[a]anthracene              |                | M                    | 2700 | mg/kg | 0.10  | 0.58        | 5.9         | 6.0         | 1.7         | 2.9         | 1.2         | 3.5         |
| Chrysene                        |                | M                    | 2700 | mg/kg | 0.10  | 0.80        | 7.2         | 7.5         | 3.5         | 4.8         | 2.0         | 5.0         |
| Benzo[b]fluoranthene            |                | M                    | 2700 | mg/kg | 0.10  | 0.82        | 7.3         | 7.6         | 2.6         | 3.5         | 1.8         | 4.6         |
| Benzo[k]fluoranthene            |                | M                    | 2700 | mg/kg | 0.10  | 0.39        | 2.8         | 2.8         | 1.5         | 1.3         | 0.80        | 2.1         |
| Benzo[a]pyrene                  |                | M                    | 2700 | mg/kg | 0.10  | 0.46        | 4.6         | 4.8         | 1.5         | 2.1         | 1.1         | 2.9         |
| Indeno(1,2,3-c,d)Pyrene         |                | M                    | 2700 | mg/kg | 0.10  | 0.52        | 3.0         | 3.4         | 0.92        | 1.4         | 0.73        | 2.0         |
| Dibenz(a,h)Anthracene           |                | M                    | 2700 | mg/kg | 0.10  | 0.39        | 1.3         | 1.5         | 0.91        | 1.2         | 0.67        | 1.5         |
| Benzo[g,h,i]perylene            |                | M                    | 2700 | mg/kg | 0.10  | 0.39        | 2.6         | 3.3         | 1.4         | 1.5         | 0.70        | 2.7         |
| Total Of 16 PAH's               |                | M                    | 2700 | mg/kg | 2.0   | 5.8         | 58          | 65          | 21          | 28          | 14          | 40          |
| Dichlorodifluoromethane         |                | N                    | 2760 | µg/kg | 1.0   | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Chloromethane                   |                | M                    | 2760 | µg/kg | 1.0   | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |



## Results - Soil

**Project: HillCrest**

|                            |                  |                             |             |              |             |             |             |             |             |
|----------------------------|------------------|-----------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    | 25-15114    | 25-15114     | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    |
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> | 1969671     | 1969672      | 1969673     | 1969674     | 1969675     | 1969676     | 1969677     |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                            |                  | <b>Client Sample ID.:</b>   | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                            |                  | <b>Client Reference:</b>    | TP06        | TP08         | TP07        | TP08        | TP06        | TP08        | TP07        |
|                            |                  | <b>Sample Type:</b>         | SOIL        | SOIL         | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                            |                  | <b>Top Depth (m):</b>       | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                            |                  | <b>Bottom Depth (m):</b>    | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                            |                  | <b>Date Sampled:</b>        | 01-May-2025 | 02-May-2025  | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 |
|                            |                  | <b>Time Sampled:</b>        | 12:00       | 12:00        | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       |
|                            |                  | <b>Asbestos Lab:</b>        | DURHAM      | DURHAM       | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b>  | <b>Units</b> | <b>LOD</b>  |             |             |             |             |
| Vinyl Chloride             |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Bromomethane               |                  | M                           | 2760        | µg/kg        | 20          | < 20        | < 20        | < 20        | < 20        |
| Chloroethane               |                  | U                           | 2760        | µg/kg        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Trichlorofluoromethane     |                  | N                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,1-Dichloroethene         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Dichloromethane            |                  | N                           | 2760        | µg/kg        | 50          | < 50        | < 50        | < 50        | < 50        |
| Trans 1,2-Dichloroethene   |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,1-Dichloroethane         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| cis 1,2-Dichloroethene     |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Bromochloromethane         |                  | U                           | 2760        | µg/kg        | 5.0         | < 5.0       | < 5.0       | < 5.0       | < 5.0       |
| Trichloromethane           |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,1,1-Trichloroethane      |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Tetrachloromethane         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,1-Dichloropropene        |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Benzene                    |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2-Dichloroethane         |                  | M                           | 2760        | µg/kg        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Trichloroethene            |                  | N                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2-Dichloropropane        |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Dibromomethane             |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Bromodichloromethane       |                  | M                           | 2760        | µg/kg        | 5.0         | < 5.0       | < 5.0       | < 5.0       | < 5.0       |
| cis-1,3-Dichloropropene    |                  | N                           | 2760        | µg/kg        | 10          | < 10        | < 10        | < 10        | < 10        |
| Toluene                    |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Trans-1,3-Dichloropropene  |                  | N                           | 2760        | µg/kg        | 10          | < 10        | < 10        | < 10        | < 10        |
| 1,1,2-Trichloroethane      |                  | M                           | 2760        | µg/kg        | 10          | < 10        | < 10        | < 10        | < 10        |
| Tetrachloroethene          |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,3-Dichloropropane        |                  | U                           | 2760        | µg/kg        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Dibromochloromethane       |                  | U                           | 2760        | µg/kg        | 10          | < 10        | < 10        | < 10        | < 10        |
| 1,2-Dibromoethane          |                  | M                           | 2760        | µg/kg        | 5.0         | < 5.0       | < 5.0       | < 5.0       | < 5.0       |
| Chlorobenzene              |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,1,1,2-Tetrachloroethane  |                  | M                           | 2760        | µg/kg        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Ethylbenzene               |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| m & p-Xylene               |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| o-Xylene                   |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Styrene                    |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Tribromomethane            |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |

## Results - Soil

**Project: HillCrest**

|                             |                  |                             |             |              |             |             |             |             |             |
|-----------------------------|------------------|-----------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| <b>Client: Terra Firma</b>  |                  | <b>Chemtest Job No.:</b>    | 25-15114    | 25-15114     | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    |
| <b>Quotation No.:</b>       |                  | <b>Chemtest Sample ID.:</b> | 1969671     | 1969672      | 1969673     | 1969674     | 1969675     | 1969676     | 1969677     |
| <b>Order No.: 17412</b>     |                  | <b>Client Sample Ref.:</b>  | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                             |                  | <b>Client Sample ID.:</b>   | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                             |                  | <b>Client Reference:</b>    | TP06        | TP08         | TP07        | TP08        | TP06        | TP08        | TP07        |
|                             |                  | <b>Sample Type:</b>         | SOIL        | SOIL         | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                             |                  | <b>Top Depth (m):</b>       | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                             |                  | <b>Bottom Depth (m):</b>    | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                             |                  | <b>Date Sampled:</b>        | 01-May-2025 | 02-May-2025  | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 |
|                             |                  | <b>Time Sampled:</b>        | 12:00       | 12:00        | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       |
|                             |                  | <b>Asbestos Lab:</b>        | DURHAM      | DURHAM       | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| <b>Determinand</b>          | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b>  | <b>Units</b> | <b>LOD</b>  |             |             |             |             |
| Isopropylbenzene            |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Bromobenzene                |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2,3-Trichloropropane      |                  | N                           | 2760        | µg/kg        | 50          | < 50        | < 50        | < 50        | < 50        |
| N-Propylbenzene             |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 2-Chlorotoluene             |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,3,5-Trimethylbenzene      |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 4-Chlorotoluene             |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Tert-Butylbenzene           |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2,4-Trimethylbenzene      |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Sec-Butylbenzene            |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,3-Dichlorobenzene         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 4-Isopropyltoluene          |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,4-Dichlorobenzene         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| N-Butylbenzene              |                  | U                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2-Dichlorobenzene         |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2-Dibromo-3-Chloropropane |                  | N                           | 2760        | µg/kg        | 50          | < 50        | < 50        | < 50        | < 50        |
| 1,2,4-Trichlorobenzene      |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Hexachlorobutadiene         |                  | N                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| 1,2,3-Trichlorobenzene      |                  | U                           | 2760        | µg/kg        | 2.0         | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Methyl Tert-Butyl Ether     |                  | M                           | 2760        | µg/kg        | 1.0         | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| N-Nitrosodimethylamine      |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Phenol                      |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 2-Chlorophenol              |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Bis-(2-Chloroethyl)Ether    |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 1,3-Dichlorobenzene         |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 1,4-Dichlorobenzene         |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 1,2-Dichlorobenzene         |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 2-Methylphenol              |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Bis(2-Chloroisopropyl)Ether |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Hexachloroethane            |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| N-Nitrosodi-n-propylamine   |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 4-Methylphenol              |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Nitrobenzene                |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Isophorone                  |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| 2-Nitrophenol               |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |

## Results - Soil

**Project: HillCrest**

|                            |                  |                             |            |              |             |             |             |             |             |             |          |
|----------------------------|------------------|-----------------------------|------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    |            | 25-15114     | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114 |
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> |            | 1969671      | 1969672     | 1969673     | 1969674     | 1969675     | 1969676     | 1969677     |          |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  |            | TP06 0.75    | TP08 0.3    | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |          |
|                            |                  | <b>Client Sample ID.:</b>   |            | TP06 0.75    | TP08 0.3    | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |          |
|                            |                  | <b>Client Reference:</b>    |            | TP06         | TP08        | TP07        | TP08        | TP06        | TP08        | TP07        |          |
|                            |                  | <b>Sample Type:</b>         |            | SOIL         | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |          |
|                            |                  | <b>Top Depth (m):</b>       |            | 0.75         | 0.3         | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |          |
|                            |                  | <b>Bottom Depth (m):</b>    |            | 0.75         | 0.3         | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |          |
|                            |                  | <b>Date Sampled:</b>        |            | 01-May-2025  | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 |          |
|                            |                  | <b>Time Sampled:</b>        |            | 12:00        | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       |          |
|                            |                  | <b>Asbestos Lab:</b>        |            | DURHAM       | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |          |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |             |             |             |             |             |          |
| 2,4-Dimethylphenol         |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Bis(2-Chloroethoxy)Methane |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2,4-Dichlorophenol         |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 1,2,4-Trichlorobenzene     |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Naphthalene                |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Chloroaniline            |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Hexachlorobutadiene        |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Chloro-3-Methylphenol    |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2-Methylnaphthalene        |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Nitrophenol              |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2,4,6-Trichlorophenol      |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2,4,5-Trichlorophenol      |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2-Chloronaphthalene        |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Acenaphthylene             |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Dimethylphthalate          |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2,6-Dinitrotoluene         |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Acenaphthene               |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 3-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Dibenzofuran               |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Chlorophenylphenylether  |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 2,4-Dinitrotoluene         |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Fluorene                   |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Diethyl Phthalate          |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Azobenzene                 |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| 4-Bromophenylphenyl Ether  |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Hexachlorobenzene          |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Phenanthrene               |                  | M                           | 2790       | mg/kg        | 0.50        | 1.4         | 7.2         | 2.0         | 0.72        | 0.98        | < 0.50   |
| Anthracene                 |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | 2.1         | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Carbazole                  |                  | M                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Di-N-Butyl Phthalate       |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |
| Fluoranthene               |                  | M                           | 2790       | mg/kg        | 0.50        | 1.9         | 9.8         | 4.9         | 2.1         | 0.92        | 6.5      |
| Pyrene                     |                  | M                           | 2790       | mg/kg        | 0.50        | 1.3         | 6.8         | 3.6         | 1.8         | 1.5         | 0.68     |
| Butylbenzyl Phthalate      |                  | N                           | 2790       | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50      | < 0.50   |



## Results - Soil

**Project: HillCrest**

|                            |                  |                             |             |              |             |             |             |             |             |
|----------------------------|------------------|-----------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    | 25-15114    | 25-15114     | 25-15114    | 25-15114    | 25-15114    | 25-15114    | 25-15114    |
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> | 1969671     | 1969672      | 1969673     | 1969674     | 1969675     | 1969676     | 1969677     |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                            |                  | <b>Client Sample ID.:</b>   | TP06 0.75   | TP08 0.3     | TP07 0.1    | TP08 1.8    | TP06 1.7    | TP08 1.0    | TP07 1.4    |
|                            |                  | <b>Client Reference:</b>    | TP06        | TP08         | TP07        | TP08        | TP06        | TP08        | TP07        |
|                            |                  | <b>Sample Type:</b>         | SOIL        | SOIL         | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                            |                  | <b>Top Depth (m):</b>       | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                            |                  | <b>Bottom Depth (m):</b>    | 0.75        | 0.3          | 0.1         | 1.8         | 1.7         | 1.0         | 1.4         |
|                            |                  | <b>Date Sampled:</b>        | 01-May-2025 | 02-May-2025  | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 | 02-May-2025 |
|                            |                  | <b>Time Sampled:</b>        | 12:00       | 12:00        | 12:00       | 12:00       | 12:00       | 12:00       | 12:00       |
|                            |                  | <b>Asbestos Lab:</b>        | DURHAM      | DURHAM       | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b>  | <b>Units</b> | <b>LOD</b>  |             |             |             |             |
| Benzo[a]anthracene         |                  | M                           | 2790        | mg/kg        | 0.50        | 1.2         | 5.9         | 3.3         | 1.7         |
| Chrysene                   |                  | M                           | 2790        | mg/kg        | 0.50        | 1.2         | 5.2         | 4.1         | 1.9         |
| Bis(2-Ethylhexyl)Phthalate |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | 0.63        | < 0.50      | 0.94        |
| Di-N-Octyl Phthalate       |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | < 0.50      | < 0.50      | < 0.50      |
| Benzo[b]fluoranthene       |                  | M                           | 2790        | mg/kg        | 0.50        | 1.6         | 6.1         | 5.0         | 2.7         |
| Benzo[k]fluoranthene       |                  | M                           | 2790        | mg/kg        | 0.50        | < 0.50      | 1.9         | 1.5         | 0.92        |
| Benzo[a]pyrene             |                  | M                           | 2790        | mg/kg        | 0.50        | 1.0         | 4.1         | 3.0         | 1.6         |
| Indeno(1,2,3-c,d)Pyrene    |                  | N                           | 2790        | mg/kg        | 0.50        | 0.58        | 2.1         | 1.9         | 1.1         |
| Dibenz(a,h)Anthracene      |                  | N                           | 2790        | mg/kg        | 0.50        | < 0.50      | 1.0         | 0.88        | < 0.50      |
| Benzo[g,h,i]perylene       |                  | M                           | 2790        | mg/kg        | 0.50        | 0.59        | 2.0         | 2.0         | 1.1         |
| Total Phenols              |                  | M                           | 2920        | mg/kg        | 0.10        | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Organic Matter BS1377      |                  | N                           | 2930        | %            | 0.10        | 1.8         | 4.9         | 6.7         | 6.5         |

## Results - Soil

**Project: HillCrest**

|                             |                  |                             |            |              |            |                      |
|-----------------------------|------------------|-----------------------------|------------|--------------|------------|----------------------|
| <b>Client: Terra Firma</b>  |                  | <b>Chemtest Job No.:</b>    |            |              |            | 25-15114             |
| <b>Quotation No.:</b>       |                  | <b>Chemtest Sample ID.:</b> |            |              |            | 1969678              |
| <b>Order No.: 17412</b>     |                  | <b>Client Sample Ref.:</b>  |            |              |            | TP06 0.1             |
|                             |                  | <b>Client Sample ID.:</b>   |            |              |            | TP06 0.1             |
|                             |                  | <b>Client Reference:</b>    |            |              |            | TP06                 |
|                             |                  | <b>Sample Type:</b>         |            |              |            | SOIL                 |
|                             |                  | <b>Top Depth (m):</b>       |            |              |            | 0.1                  |
|                             |                  | <b>Bottom Depth (m):</b>    |            |              |            | 0.1                  |
|                             |                  | <b>Date Sampled:</b>        |            |              |            | 02-May-2025          |
|                             |                  | <b>Time Sampled:</b>        |            |              |            | 12:00                |
|                             |                  | <b>Asbestos Lab:</b>        |            |              |            | DURHAM               |
| <b>Determinand</b>          | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |                      |
| ACM Type                    |                  | N                           | 2192       |              | N/A        | -                    |
| Asbestos Identification     |                  | U                           | 2192       |              | N/A        | No Asbestos Detected |
| ACM Detection Stage         |                  | U                           | 2192       |              | N/A        | -                    |
| Moisture                    |                  | N                           | 2030       | %            | 0.020      | 16                   |
| Soil Colour                 |                  | N                           | 2040       |              | N/A        | Brown                |
| Other Material              |                  | N                           | 2040       |              | N/A        | Stones, Roots and    |
| Soil Texture                |                  | N                           | 2040       |              | N/A        | Sand                 |
| pH at 20C                   |                  | M                           | 2010       |              | 4.0        | 7.9                  |
| Boron (Hot Water Soluble)   |                  | M                           | 2120       | mg/kg        | 0.40       | < 0.40               |
| Cyanide (Total)             |                  | M                           | 2300       | mg/kg        | 0.50       | < 0.50               |
| Sulphate (Acid Soluble)     |                  | U                           | 2430       | %            | 0.010      | 0.046                |
| Arsenic                     |                  | M                           | 2455       | mg/kg        | 0.5        | 9.0                  |
| Cadmium                     |                  | M                           | 2455       | mg/kg        | 0.10       | 1.9                  |
| Chromium                    |                  | M                           | 2455       | mg/kg        | 0.5        | 95                   |
| Mercury Low Level           |                  | N                           | 2450       | mg/kg        | 0.05       | 0.07                 |
| Copper                      |                  | M                           | 2455       | mg/kg        | 0.50       | 190                  |
| Nickel                      |                  | M                           | 2455       | mg/kg        | 0.50       | 21                   |
| Lead                        |                  | M                           | 2455       | mg/kg        | 0.50       | 65                   |
| Selenium                    |                  | M                           | 2455       | mg/kg        | 0.25       | 0.35                 |
| Zinc                        |                  | M                           | 2455       | mg/kg        | 0.50       | 130                  |
| Chromium (Trivalent)        |                  | N                           | 2490       | mg/kg        | 1.0        | 95                   |
| Chromium (Hexavalent)       |                  | N                           | 2490       | mg/kg        | 0.50       | < 0.50               |
| Aliphatic VPH >C5-C6        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05       | < 0.05               |
| Aliphatic VPH >C6-C7        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05       | < 0.05               |
| Aliphatic VPH >C7-C8        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05       | < 0.05               |
| Aliphatic VPH >C6-C8 (Sum)  | HS_2D_AL         | N                           | 2780       | mg/kg        | 0.10       | < 0.10               |
| Aliphatic VPH >C8-C10       | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05       | < 0.05               |
| Total Aliphatic VPH >C5-C10 | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.25       | < 0.25               |
| Aliphatic EPH >C10-C12 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00       | < 2.0                |
| Aliphatic EPH >C12-C16 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 1.00       | 1.2                  |
| Aliphatic EPH >C16-C21 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00       | 13                   |
| Aliphatic EPH >C21-C35 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 3.00       | 16                   |
| Aliphatic EPH >C35-C40 MC   | EH_2D_AL_#1      | N                           | 2690       | mg/kg        | 10.00      | < 10                 |

## Results - Soil

**Project: HillCrest**

| <b>Client: Terra Firma</b>      |                  | <b>Chemtest Job No.:</b>    | 25-15114    |              |            |        |
|---------------------------------|------------------|-----------------------------|-------------|--------------|------------|--------|
| <b>Quotation No.:</b>           |                  | <b>Chemtest Sample ID.:</b> | 1969678     |              |            |        |
| <b>Order No.: 17412</b>         |                  | <i>Client Sample Ref.:</i>  | TP06 0.1    |              |            |        |
|                                 |                  | <i>Client Sample ID.:</i>   | TP06 0.1    |              |            |        |
|                                 |                  | <i>Client Reference:</i>    | TP06        |              |            |        |
|                                 |                  | <i>Sample Type:</i>         | SOIL        |              |            |        |
|                                 |                  | <i>Top Depth (m):</i>       | 0.1         |              |            |        |
|                                 |                  | <i>Bottom Depth (m):</i>    | 0.1         |              |            |        |
|                                 |                  | <i>Date Sampled:</i>        | 02-May-2025 |              |            |        |
|                                 |                  | <i>Time Sampled:</i>        | 12:00       |              |            |        |
|                                 |                  | Asbestos Lab:               | DURHAM      |              |            |        |
| <b>Determinand</b>              | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b>  | <b>Units</b> | <b>LOD</b> |        |
| Total Aliphatic EPH >C10-C35 MC | EH_2D_AL_#1      | M                           | 2690        | mg/kg        | 5.00       | 32     |
| Total Aliphatic EPH >C10-C40 MC | EH_2D_AL_#1      | N                           | 2690        | mg/kg        | 10.00      | 32     |
| Aromatic VPH >C5-C7             | HS_2D_AR         | U                           | 2780        | mg/kg        | 0.05       | < 0.05 |
| Aromatic VPH >C7-C8             | HS_2D_AR         | U                           | 2780        | mg/kg        | 0.05       | < 0.05 |
| Aromatic VPH >C8-C10            | HS_2D_AR         | U                           | 2780        | mg/kg        | 0.05       | < 0.05 |
| Total Aromatic VPH >C5-C10      | HS_2D_AR         | U                           | 2780        | mg/kg        | 0.25       | < 0.25 |
| Aromatic EPH >C10-C12 MC        | EH_2D_AR_#1      | U                           | 2690        | mg/kg        | 1.00       | < 1.0  |
| Aromatic EPH >C12-C16 MC        | EH_2D_AR_#1      | U                           | 2690        | mg/kg        | 1.00       | < 1.0  |
| Aromatic EPH >C16-C21 MC        | EH_2D_AR_#1      | U                           | 2690        | mg/kg        | 2.00       | 25     |
| Aromatic EPH >C21-C35 MC        | EH_2D_AR_#1      | U                           | 2690        | mg/kg        | 2.00       | 220    |
| Aromatic EPH >C35-C40 MC        | EH_2D_AR_#1      | N                           | 2690        | mg/kg        | 1.00       | 31     |
| Total Aromatic EPH >C10-C35 MC  | EH_2D_AR_#1      | U                           | 2690        | mg/kg        | 5.00       | 240    |
| Total Aromatic EPH >C10-C40 MC  | EH_2D_AR_#1      | N                           | 2690        | mg/kg        | 10.00      | 270    |
| Total VPH >C5-C10               | HS_2D_Total      | U                           | 2780        | mg/kg        | 0.50       | < 0.50 |
| Total EPH >C10-C35 MC           | EH_2D_Total_#1   | U                           | 2690        | mg/kg        | 10.00      | 270    |
| Total EPH >C10-C40 MC           | EH_2D_Total_#1   | N                           | 2690        | mg/kg        | 10.00      | 310    |
| Naphthalene                     |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Acenaphthylene                  |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Acenaphthene                    |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Fluorene                        |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Phenanthrene                    |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Anthracene                      |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Fluoranthene                    |                  | M                           | 2700        | mg/kg        | 0.10       | 0.73   |
| Pyrene                          |                  | M                           | 2700        | mg/kg        | 0.10       | 0.76   |
| Benzo[a]anthracene              |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Chrysene                        |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Benzo[b]fluoranthene            |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Benzo[k]fluoranthene            |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Benzo[a]pyrene                  |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Indeno(1,2,3-c,d)Pyrene         |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Dibenz(a,h)Anthracene           |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Benzo[g,h,i]perylene            |                  | M                           | 2700        | mg/kg        | 0.10       | < 0.10 |
| Total Of 16 PAH's               |                  | M                           | 2700        | mg/kg        | 2.0        | < 2.0  |
| Dichlorodifluoromethane         |                  | N                           | 2760        | µg/kg        | 1.0        | < 1.0  |
| Chloromethane                   |                  | M                           | 2760        | µg/kg        | 1.0        | < 1.0  |



## Results - Soil

**Project: HillCrest**

| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    |            |              |            | 25-15114    |
|----------------------------|------------------|-----------------------------|------------|--------------|------------|-------------|
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> |            |              |            | 1969678     |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  |            |              |            | TP06 0.1    |
|                            |                  | <b>Client Sample ID.:</b>   |            |              |            | TP06 0.1    |
|                            |                  | <b>Client Reference:</b>    |            |              |            | TP06        |
|                            |                  | <b>Sample Type:</b>         |            |              |            | SOIL        |
|                            |                  | <b>Top Depth (m):</b>       |            |              |            | 0.1         |
|                            |                  | <b>Bottom Depth (m):</b>    |            |              |            | 0.1         |
|                            |                  | <b>Date Sampled:</b>        |            |              |            | 02-May-2025 |
|                            |                  | <b>Time Sampled:</b>        |            |              |            | 12:00       |
|                            |                  | <b>Asbestos Lab:</b>        |            |              |            | DURHAM      |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |
| Vinyl Chloride             |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Bromomethane               |                  | M                           | 2760       | µg/kg        | 20         | < 20        |
| Chloroethane               |                  | U                           | 2760       | µg/kg        | 2.0        | < 2.0       |
| Trichlorofluoromethane     |                  | N                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,1-Dichloroethene         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Dichloromethane            |                  | N                           | 2760       | µg/kg        | 50         | < 50        |
| Trans 1,2-Dichloroethene   |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,1-Dichloroethane         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| cis 1,2-Dichloroethene     |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Bromochloromethane         |                  | U                           | 2760       | µg/kg        | 5.0        | < 5.0       |
| Trichloromethane           |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,1,1-Trichloroethane      |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Tetrachloromethane         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,1-Dichloropropene        |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Benzene                    |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2-Dichloroethane         |                  | M                           | 2760       | µg/kg        | 2.0        | < 2.0       |
| Trichloroethene            |                  | N                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2-Dichloropropane        |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Dibromomethane             |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Bromodichloromethane       |                  | M                           | 2760       | µg/kg        | 5.0        | < 5.0       |
| cis-1,3-Dichloropropene    |                  | N                           | 2760       | µg/kg        | 10         | < 10        |
| Toluene                    |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Trans-1,3-Dichloropropene  |                  | N                           | 2760       | µg/kg        | 10         | < 10        |
| 1,1,2-Trichloroethane      |                  | M                           | 2760       | µg/kg        | 10         | < 10        |
| Tetrachloroethene          |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,3-Dichloropropane        |                  | U                           | 2760       | µg/kg        | 2.0        | < 2.0       |
| Dibromochloromethane       |                  | U                           | 2760       | µg/kg        | 10         | < 10        |
| 1,2-Dibromoethane          |                  | M                           | 2760       | µg/kg        | 5.0        | < 5.0       |
| Chlorobenzene              |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,1,1,2-Tetrachloroethane  |                  | M                           | 2760       | µg/kg        | 2.0        | < 2.0       |
| Ethylbenzene               |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| m & p-Xylene               |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| o-Xylene                   |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Styrene                    |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Tribromomethane            |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |

## Results - Soil

**Project: HillCrest**

| <b>Client: Terra Firma</b>  |                  | <b>Chemtest Job No.:</b>    |            |              |            | 25-15114    |
|-----------------------------|------------------|-----------------------------|------------|--------------|------------|-------------|
| <b>Quotation No.:</b>       |                  | <b>Chemtest Sample ID.:</b> |            |              |            | 1969678     |
| <b>Order No.: 17412</b>     |                  | <b>Client Sample Ref.:</b>  |            |              |            | TP06 0.1    |
|                             |                  | <b>Client Sample ID.:</b>   |            |              |            | TP06 0.1    |
|                             |                  | <b>Client Reference:</b>    |            |              |            | TP06        |
|                             |                  | <b>Sample Type:</b>         |            |              |            | SOIL        |
|                             |                  | <b>Top Depth (m):</b>       |            |              |            | 0.1         |
|                             |                  | <b>Bottom Depth (m):</b>    |            |              |            | 0.1         |
|                             |                  | <b>Date Sampled:</b>        |            |              |            | 02-May-2025 |
|                             |                  | <b>Time Sampled:</b>        |            |              |            | 12:00       |
|                             |                  | <b>Asbestos Lab:</b>        |            |              |            | DURHAM      |
| <b>Determinand</b>          | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |
| Isopropylbenzene            |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Bromobenzene                |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2,3-Trichloropropane      |                  | N                           | 2760       | µg/kg        | 50         | < 50        |
| N-Propylbenzene             |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 2-Chlorotoluene             |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,3,5-Trimethylbenzene      |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 4-Chlorotoluene             |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Tert-Butylbenzene           |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2,4-Trimethylbenzene      |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Sec-Butylbenzene            |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,3-Dichlorobenzene         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 4-Isopropyltoluene          |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,4-Dichlorobenzene         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| N-Butylbenzene              |                  | U                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2-Dichlorobenzene         |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2-Dibromo-3-Chloropropane |                  | N                           | 2760       | µg/kg        | 50         | < 50        |
| 1,2,4-Trichlorobenzene      |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| Hexachlorobutadiene         |                  | N                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| 1,2,3-Trichlorobenzene      |                  | U                           | 2760       | µg/kg        | 2.0        | < 2.0       |
| Methyl Tert-Butyl Ether     |                  | M                           | 2760       | µg/kg        | 1.0        | < 1.0       |
| N-Nitrosodimethylamine      |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Phenol                      |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Chlorophenol              |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Bis-(2-Chloroethyl)Ether    |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 1,3-Dichlorobenzene         |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 1,4-Dichlorobenzene         |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 1,2-Dichlorobenzene         |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Methylphenol              |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Bis(2-Chloroisopropyl)Ether |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Hexachloroethane            |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| N-Nitrosodi-n-propylamine   |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Methylphenol              |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Nitrobenzene                |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Isophorone                  |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Nitrophenol               |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |

## Results - Soil

**Project: HillCrest**

| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    |            |              |            | 25-15114    |
|----------------------------|------------------|-----------------------------|------------|--------------|------------|-------------|
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> |            |              |            | 1969678     |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  |            |              |            | TP06 0.1    |
|                            |                  | <b>Client Sample ID.:</b>   |            |              |            | TP06 0.1    |
|                            |                  | <b>Client Reference:</b>    |            |              |            | TP06        |
|                            |                  | <b>Sample Type:</b>         |            |              |            | SOIL        |
|                            |                  | <b>Top Depth (m):</b>       |            |              |            | 0.1         |
|                            |                  | <b>Bottom Depth (m):</b>    |            |              |            | 0.1         |
|                            |                  | <b>Date Sampled:</b>        |            |              |            | 02-May-2025 |
|                            |                  | <b>Time Sampled:</b>        |            |              |            | 12:00       |
|                            |                  | <b>Asbestos Lab:</b>        |            |              |            | DURHAM      |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |
| 2,4-Dimethylphenol         |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Bis(2-Chloroethoxy)Methane |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2,4-Dichlorophenol         |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 1,2,4-Trichlorobenzene     |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Naphthalene                |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Chloroaniline            |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Hexachlorobutadiene        |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Chloro-3-Methylphenol    |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Methylnaphthalene        |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Nitrophenol              |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2,4,6-Trichlorophenol      |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2,4,5-Trichlorophenol      |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Chloronaphthalene        |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Acenaphthylene             |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Dimethylphthalate          |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2,6-Dinitrotoluene         |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Acenaphthene               |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 3-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Dibenzofuran               |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Chlorophenylphenylether  |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 2,4-Dinitrotoluene         |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Fluorene                   |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Diethyl Phthalate          |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Nitroaniline             |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Azobenzene                 |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| 4-Bromophenylphenyl Ether  |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Hexachlorobenzene          |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Phenanthrene               |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Anthracene                 |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Carbazole                  |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Di-N-Butyl Phthalate       |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Fluoranthene               |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Pyrene                     |                  | M                           | 2790       | mg/kg        | 0.50       | < 0.50      |
| Butylbenzyl Phthalate      |                  | N                           | 2790       | mg/kg        | 0.50       | < 0.50      |



## Results - Soil

**Project: HillCrest**

| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    | 25-15114    |              |            |        |
|----------------------------|------------------|-----------------------------|-------------|--------------|------------|--------|
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> | 1969678     |              |            |        |
| <b>Order No.: 17412</b>    |                  | <i>Client Sample Ref.:</i>  | TP06 0.1    |              |            |        |
|                            |                  | <i>Client Sample ID.:</i>   | TP06 0.1    |              |            |        |
|                            |                  | <i>Client Reference:</i>    | TP06        |              |            |        |
|                            |                  | <i>Sample Type:</i>         | SOIL        |              |            |        |
|                            |                  | <i>Top Depth (m):</i>       | 0.1         |              |            |        |
|                            |                  | <i>Bottom Depth (m):</i>    | 0.1         |              |            |        |
|                            |                  | <i>Date Sampled:</i>        | 02-May-2025 |              |            |        |
|                            |                  | <i>Time Sampled:</i>        | 12:00       |              |            |        |
|                            |                  | <i>Asbestos Lab:</i>        | DURHAM      |              |            |        |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b>  | <b>Units</b> | <b>LOD</b> |        |
| Benzo[a]anthracene         |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Chrysene                   |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Bis(2-Ethylhexyl)Phthalate |                  | N                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Di-N-Octyl Phthalate       |                  | N                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Benzo[b]fluoranthene       |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Benzo[k]fluoranthene       |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Benzo[a]pyrene             |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Indeno(1,2,3-c,d)Pyrene    |                  | N                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Dibenz(a,h)Anthracene      |                  | N                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Benzo[g,h,i]perylene       |                  | M                           | 2790        | mg/kg        | 0.50       | < 0.50 |
| Total Phenols              |                  | M                           | 2920        | mg/kg        | 0.10       | < 0.10 |
| Organic Matter BS1377      |                  | N                           | 2930        | %            | 0.10       | 3.3    |

## Test Methods

| SOP  | Title                                                               | Parameters included                                                                                                                                                                                                                                          | Method summary                                                                                                                                                                         | Water Accred. |
|------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2010 | pH Value of Soils                                                   | pH at 20°C                                                                                                                                                                                                                                                   | pH Meter                                                                                                                                                                               |               |
| 2030 | Moisture and Stone Content of Soils(Requirement of MCERTS)          | Moisture content                                                                                                                                                                                                                                             | Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.                                                                                   |               |
| 2040 | Soil Description(Requirement of MCERTS)                             | Soil description                                                                                                                                                                                                                                             | As received soil is described based upon BS5930                                                                                                                                        |               |
| 2120 | Water Soluble Boron, Sulphate, Magnesium & Chromium                 | Boron; Sulphate; Magnesium; Chromium                                                                                                                                                                                                                         | Aqueous extraction / ICP-OES                                                                                                                                                           |               |
| 2192 | Asbestos                                                            | Asbestos                                                                                                                                                                                                                                                     | Polarised light microscopy / Gravimetry                                                                                                                                                |               |
| 2300 | Cyanides & Thiocyanate in Soils                                     | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                              | Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.                                                                                    |               |
| 2430 | Total Sulphate in soils                                             | Total Sulphate                                                                                                                                                                                                                                               | Acid digestion followed by determination of sulphate in extract by ICP-OES.                                                                                                            |               |
| 2450 | Acid Soluble Metals in Soils                                        | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                     | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2455 | Acid Soluble Metals in Soils                                        | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                     | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2490 | Hexavalent Chromium in Soils                                        | Chromium [VI]                                                                                                                                                                                                                                                | Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine. |               |
| 2690 | EPH A/A Split                                                       | Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40<br>Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40                                                                                                                              | Acetone/Heptane extraction / GCxGC FID detection                                                                                                                                       |               |
| 2700 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID | Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene | Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)                                                   |               |
| 2760 | Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS       | Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule                                                                                                                         | Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.                             |               |
| 2780 | VPH A/A Split                                                       | Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10<br>Aromatics: >C5–C7,>C7–C8,>C8–C10                                                                                                                                                                                | Water extraction / Headspace GCxGC FID detection                                                                                                                                       |               |
| 2790 | Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS           | Semi-volatile organic compounds(cf. USEPA Method 8270)                                                                                                                                                                                                       | Acetone/Hexane extraction / GC-MS                                                                                                                                                      |               |
| 2920 | Phenols in Soils by HPLC                                            | Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.                                                                                                            | 60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.                                                                               |               |
| 2930 | Organic Matter                                                      | Organic Matter                                                                                                                                                                                                                                               | Acid Dichromate digestion/Titration                                                                                                                                                    |               |

## **Report Information**

### **Key**

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|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

*Text example* All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory  
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.  
Any comments or interpretations are outside the scope of UKAS accreditation.  
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.  
Uncertainty of measurement for the determinands tested are available upon request .  
None of the results in this report have been recovery corrected.  
All results are expressed on a dry weight basis.  
  
The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.  
For all other tests the samples were dried at  $\leq 30^{\circ}\text{C}$  prior to analysis.  
All Asbestos testing is performed at the indicated laboratory .  
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW\_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL  
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

### **Sample Deviation Codes**

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**As a result of any of the below deviations applying, the test results may be unreliable**

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 30 days from the date of receipt.  
All water samples will be retained for 14 days from the date of receipt.  
Charges may apply to extended sample storage.



## **Report Information**

### **Water Sample Category Key for Accreditation**

DW - Drinking Water  
GW - Ground Water  
LE - Land Leachate  
NA - Not Applicable  
PL - Prepared Leachate  
PW - Processed Water  
RE - Recreational Water  
SA - Saline Water  
SW - Surface Water  
TE - Treated Effluent  
TS - Treated Sewage  
UL - Unspecified Liquid

### **Clean Up Codes**

NC - No Clean Up  
MC - Mathematical Clean Up  
FC - Florisil Clean Up

### **HWOL Acronym System**

HS - Headspace analysis  
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent  
CU - Clean-up – e.g. by Florisil, silica gel  
1D - GC – Single coil gas chromatography  
Total - Aliphatics & Aromatics  
AL - Aliphatics only  
AR - Aromatic only  
2D - GC-GC – Double coil gas chromatography  
#1 - EH\_2D\_Total but with humics mathematically subtracted  
#2 - EH\_2D\_Total but with fatty acids mathematically subtracted  
+ - Operator to indicate cumulative e.g. EH+EH\_Total or EH\_CU+HS\_Total

### **Asbestos Tests LOD = LOQ**

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

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**Report No.:** 25-15184-1

**Initial Date of Issue:** 19-May-2025

**Re-Issue Details:**

**Client** Terra Firma

**Client Address:** 5 Deryn Court  
Wharfedale Road  
Pentwyn  
Cardiff  
CF23 7HA

**Contact(s):** f.linklater@tfwgroup.co.uk

**Project** HillCrest

**Quotation No.:** **Date Received:** 07-May-2025

**Order No.:** 17412 **Date Instructed:** 07-May-2025

**No. of Samples:** 2

**Turnaround (Wkdays):** 5 **Results Due:** 13-May-2025

**Date Approved:** 19-May-2025

**Approved By:**

**Details:** David Smith, Technical Director

**For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report**

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## Results - Soil

**Project: HillCrest**

|                             |                  |                             |            |              |             |
|-----------------------------|------------------|-----------------------------|------------|--------------|-------------|
| <b>Client: Terra Firma</b>  |                  | <b>Chemtest Job No.:</b>    |            | 25-15184     | 25-15184    |
| <b>Quotation No.:</b>       |                  | <b>Chemtest Sample ID.:</b> |            | 1969890      | 1969891     |
| <b>Order No.: 17412</b>     |                  | <b>Client Sample Ref.:</b>  |            | TP01 0.5     | TP02 1.4    |
|                             |                  | <b>Client Sample ID.:</b>   |            | TP01 0.5     | TP02 1.4    |
|                             |                  | <b>Client Reference:</b>    |            | TP01         | TP02        |
|                             |                  | <b>Sample Type:</b>         |            | SOIL         | SOIL        |
|                             |                  | <b>Top Depth (m):</b>       |            | 0.5          | 1.4         |
|                             |                  | <b>Bottom Depth (m):</b>    |            | 0.5          | 1.4         |
|                             |                  | <b>Date Sampled:</b>        |            | 01-May-2025  | 01-May-2025 |
|                             |                  | <b>Time Sampled:</b>        |            | 12:00        | 12:00       |
|                             |                  | <b>Asbestos Lab:</b>        |            | DURHAM       | DURHAM      |
| <b>Determinand</b>          | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |
| ACM Type                    |                  | N                           | 2192       |              | N/A         |
| Asbestos Identification     |                  | U                           | 2192       |              | N/A         |
| ACM Detection Stage         |                  | U                           | 2192       |              | N/A         |
| Moisture                    |                  | N                           | 2030       | %            | 0.020       |
| Soil Colour                 |                  | N                           | 2040       |              | N/A         |
| Other Material              |                  | N                           | 2040       |              | N/A         |
| Soil Texture                |                  | N                           | 2040       |              | N/A         |
| pH at 20C                   |                  | M                           | 2010       |              | 4.0         |
| Boron (Hot Water Soluble)   |                  | M                           | 2120       | mg/kg        | 0.40        |
| Cyanide (Total)             |                  | M                           | 2300       | mg/kg        | 0.50        |
| Sulphate (Acid Soluble)     |                  | U                           | 2430       | %            | 0.010       |
| Arsenic                     |                  | M                           | 2455       | mg/kg        | 0.5         |
| Cadmium                     |                  | M                           | 2455       | mg/kg        | 0.10        |
| Chromium                    |                  | M                           | 2455       | mg/kg        | 0.5         |
| Mercury Low Level           |                  | N                           | 2450       | mg/kg        | 0.05        |
| Copper                      |                  | M                           | 2455       | mg/kg        | 0.50        |
| Nickel                      |                  | M                           | 2455       | mg/kg        | 0.50        |
| Lead                        |                  | M                           | 2455       | mg/kg        | 0.50        |
| Selenium                    |                  | M                           | 2455       | mg/kg        | 0.25        |
| Zinc                        |                  | M                           | 2455       | mg/kg        | 0.50        |
| Chromium (Trivalent)        |                  | N                           | 2490       | mg/kg        | 1.0         |
| Chromium (Hexavalent)       |                  | N                           | 2490       | mg/kg        | 0.50        |
| Aliphatic VPH >C5-C6        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        |
| Aliphatic VPH >C6-C7        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        |
| Aliphatic VPH >C7-C8        | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        |
| Aliphatic VPH >C6-C8 (Sum)  | HS_2D_AL         | N                           | 2780       | mg/kg        | 0.10        |
| Aliphatic VPH >C8-C10       | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.05        |
| Total Aliphatic VPH >C5-C10 | HS_2D_AL         | U                           | 2780       | mg/kg        | 0.25        |
| Aliphatic EPH >C10-C12 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00        |
| Aliphatic EPH >C12-C16 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 1.00        |
| Aliphatic EPH >C16-C21 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 2.00        |
| Aliphatic EPH >C21-C35 MC   | EH_2D_AL_#1      | M                           | 2690       | mg/kg        | 3.00        |
| Aliphatic EPH >C35-C40 MC   | EH_2D_AL_#1      | N                           | 2690       | mg/kg        | 10.00       |



## Results - Soil

**Project: HillCrest**

|                                 |                |                      |      |       |       |             |             |
|---------------------------------|----------------|----------------------|------|-------|-------|-------------|-------------|
| Client: Terra Firma             |                | Chemtest Job No.:    |      |       |       | 25-15184    | 25-15184    |
| Quotation No.:                  |                | Chemtest Sample ID.: |      |       |       | 1969890     | 1969891     |
| Order No.: 17412                |                | Client Sample Ref.:  |      |       |       | TP01 0.5    | TP02 1.4    |
|                                 |                | Client Sample ID.:   |      |       |       | TP01 0.5    | TP02 1.4    |
|                                 |                | Client Reference:    |      |       |       | TP01        | TP02        |
|                                 |                | Sample Type:         |      |       |       | SOIL        | SOIL        |
|                                 |                | Top Depth (m):       |      |       |       | 0.5         | 1.4         |
|                                 |                | Bottom Depth (m):    |      |       |       | 0.5         | 1.4         |
|                                 |                | Date Sampled:        |      |       |       | 01-May-2025 | 01-May-2025 |
|                                 |                | Time Sampled:        |      |       |       | 12:00       | 12:00       |
|                                 |                | Asbestos Lab:        |      |       |       | DURHAM      | DURHAM      |
| Determinand                     | HWOL Code      | Accred.              | SOP  | Units | LOD   |             |             |
| Total Aliphatic EPH >C10-C35 MC | EH_2D_AL_#1    | M                    | 2690 | mg/kg | 5.00  | 13          | 13          |
| Total Aliphatic EPH >C10-C40 MC | EH_2D_AL_#1    | N                    | 2690 | mg/kg | 10.00 | 13          | 13          |
| Aromatic VPH >C5-C7             | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      |
| Aromatic VPH >C7-C8             | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      |
| Aromatic VPH >C8-C10            | HS_2D_AR       | U                    | 2780 | mg/kg | 0.05  | < 0.05      | < 0.05      |
| Total Aromatic VPH >C5-C10      | HS_2D_AR       | U                    | 2780 | mg/kg | 0.25  | < 0.25      | < 0.25      |
| Aromatic EPH >C10-C12 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 1.00  | < 1.0       | 1.0         |
| Aromatic EPH >C12-C16 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 1.00  | 4.8         | 270         |
| Aromatic EPH >C16-C21 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 2.00  | 100         | 700         |
| Aromatic EPH >C21-C35 MC        | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 2.00  | 470         | 1600        |
| Aromatic EPH >C35-C40 MC        | EH_2D_AR_#1    | N                    | 2690 | mg/kg | 1.00  | 61          | 180         |
| Total Aromatic EPH >C10-C35 MC  | EH_2D_AR_#1    | U                    | 2690 | mg/kg | 5.00  | 580         | 2500        |
| Total Aromatic EPH >C10-C40 MC  | EH_2D_AR_#1    | N                    | 2690 | mg/kg | 10.00 | 640         | 2700        |
| Total VPH >C5-C10               | HS_2D_Total    | U                    | 2780 | mg/kg | 0.50  | < 0.50      | < 0.50      |
| Total EPH >C10-C35 MC           | EH_2D_Total_#1 | U                    | 2690 | mg/kg | 10.00 | 590         | 2500        |
| Total EPH >C10-C40 MC           | EH_2D_Total_#1 | N                    | 2690 | mg/kg | 10.00 | 650         | 2700        |
| Naphthalene                     |                | M                    | 2700 | mg/kg | 0.10  | 0.93        | 0.80        |
| Acenaphthylene                  |                | M                    | 2700 | mg/kg | 0.10  | 0.49        | 0.49        |
| Acenaphthene                    |                | M                    | 2700 | mg/kg | 0.10  | 1.7         | 8.5         |
| Fluorene                        |                | M                    | 2700 | mg/kg | 0.10  | 2.7         | 9.0         |
| Phenanthrene                    |                | M                    | 2700 | mg/kg | 0.10  | 33          | 30          |
| Anthracene                      |                | M                    | 2700 | mg/kg | 0.10  | 12          | 7.9         |
| Fluoranthene                    |                | M                    | 2700 | mg/kg | 0.10  | 61          | 35          |
| Pyrene                          |                | M                    | 2700 | mg/kg | 0.10  | 50          | 28          |
| Benzo[a]anthracene              |                | M                    | 2700 | mg/kg | 0.10  | 34          | 20          |
| Chrysene                        |                | M                    | 2700 | mg/kg | 0.10  | 40          | 24          |
| Benzo[b]fluoranthene            |                | M                    | 2700 | mg/kg | 0.10  | 40          | 25          |
| Benzo[k]fluoranthene            |                | M                    | 2700 | mg/kg | 0.10  | 15          | 9.3         |
| Benzo[a]pyrene                  |                | M                    | 2700 | mg/kg | 0.10  | 26          | 16          |
| Indeno(1,2,3-c,d)Pyrene         |                | M                    | 2700 | mg/kg | 0.10  | 17          | 12          |
| Dibenz(a,h)Anthracene           |                | M                    | 2700 | mg/kg | 0.10  | 7.3         | 4.7         |
| Benzo[g,h,i]perylene            |                | M                    | 2700 | mg/kg | 0.10  | 17          | 12          |
| Total Of 16 PAH's               |                | M                    | 2700 | mg/kg | 2.0   | 360         | 240         |
| Dichlorodifluoromethane         |                | N                    | 2760 | µg/kg | 1.0   | < 1.0       | < 1.0       |
| Chloromethane                   |                | M                    | 2760 | µg/kg | 1.0   | < 1.0       | < 1.0       |

## Results - Soil

**Project: HillCrest**

|                            |                  |                             |            |              |             |
|----------------------------|------------------|-----------------------------|------------|--------------|-------------|
| <b>Client: Terra Firma</b> |                  | <b>Chemtest Job No.:</b>    |            | 25-15184     | 25-15184    |
| <b>Quotation No.:</b>      |                  | <b>Chemtest Sample ID.:</b> |            | 1969890      | 1969891     |
| <b>Order No.: 17412</b>    |                  | <b>Client Sample Ref.:</b>  |            | TP01 0.5     | TP02 1.4    |
|                            |                  | <b>Client Sample ID.:</b>   |            | TP01 0.5     | TP02 1.4    |
|                            |                  | <b>Client Reference:</b>    |            | TP01         | TP02        |
|                            |                  | <b>Sample Type:</b>         |            | SOIL         | SOIL        |
|                            |                  | <b>Top Depth (m):</b>       |            | 0.5          | 1.4         |
|                            |                  | <b>Bottom Depth (m):</b>    |            | 0.5          | 1.4         |
|                            |                  | <b>Date Sampled:</b>        |            | 01-May-2025  | 01-May-2025 |
|                            |                  | <b>Time Sampled:</b>        |            | 12:00        | 12:00       |
|                            |                  | <b>Asbestos Lab:</b>        |            | DURHAM       | DURHAM      |
| <b>Determinand</b>         | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |
| Vinyl Chloride             |                  | M                           | 2760       | µg/kg        | 1.0         |
| Bromomethane               |                  | M                           | 2760       | µg/kg        | 20          |
| Chloroethane               |                  | U                           | 2760       | µg/kg        | 2.0         |
| Trichlorofluoromethane     |                  | N                           | 2760       | µg/kg        | 1.0         |
| 1,1-Dichloroethene         |                  | M                           | 2760       | µg/kg        | 1.0         |
| Dichloromethane            |                  | N                           | 2760       | µg/kg        | 50          |
| Trans 1,2-Dichloroethene   |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,1-Dichloroethane         |                  | M                           | 2760       | µg/kg        | 1.0         |
| cis 1,2-Dichloroethene     |                  | M                           | 2760       | µg/kg        | 1.0         |
| Bromochloromethane         |                  | U                           | 2760       | µg/kg        | 5.0         |
| Trichloromethane           |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,1,1-Trichloroethane      |                  | M                           | 2760       | µg/kg        | 1.0         |
| Tetrachloromethane         |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,1-Dichloropropene        |                  | U                           | 2760       | µg/kg        | 1.0         |
| Benzene                    |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,2-Dichloroethane         |                  | M                           | 2760       | µg/kg        | 2.0         |
| Trichloroethene            |                  | N                           | 2760       | µg/kg        | 1.0         |
| 1,2-Dichloropropane        |                  | M                           | 2760       | µg/kg        | 1.0         |
| Dibromomethane             |                  | M                           | 2760       | µg/kg        | 1.0         |
| Bromodichloromethane       |                  | M                           | 2760       | µg/kg        | 5.0         |
| cis-1,3-Dichloropropene    |                  | N                           | 2760       | µg/kg        | 10          |
| Toluene                    |                  | M                           | 2760       | µg/kg        | 1.0         |
| Trans-1,3-Dichloropropene  |                  | N                           | 2760       | µg/kg        | 10          |
| 1,1,2-Trichloroethane      |                  | M                           | 2760       | µg/kg        | 10          |
| Tetrachloroethene          |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,3-Dichloropropane        |                  | U                           | 2760       | µg/kg        | 2.0         |
| Dibromochloromethane       |                  | U                           | 2760       | µg/kg        | 10          |
| 1,2-Dibromoethane          |                  | M                           | 2760       | µg/kg        | 5.0         |
| Chlorobenzene              |                  | M                           | 2760       | µg/kg        | 1.0         |
| 1,1,1,2-Tetrachloroethane  |                  | M                           | 2760       | µg/kg        | 2.0         |
| Ethylbenzene               |                  | M                           | 2760       | µg/kg        | 1.0         |
| m & p-Xylene               |                  | M                           | 2760       | µg/kg        | 1.0         |
| o-Xylene                   |                  | M                           | 2760       | µg/kg        | 1.0         |
| Styrene                    |                  | M                           | 2760       | µg/kg        | 1.0         |
| Tribromomethane            |                  | U                           | 2760       | µg/kg        | 1.0         |

## Results - Soil

**Project: HillCrest**

|                             |           |                      |      |       |      |             |             |
|-----------------------------|-----------|----------------------|------|-------|------|-------------|-------------|
| Client: Terra Firma         |           | Chemtest Job No.:    |      |       |      | 25-15184    | 25-15184    |
| Quotation No.:              |           | Chemtest Sample ID.: |      |       |      | 1969890     | 1969891     |
| Order No.: 17412            |           | Client Sample Ref.:  |      |       |      | TP01 0.5    | TP02 1.4    |
|                             |           | Client Sample ID.:   |      |       |      | TP01 0.5    | TP02 1.4    |
|                             |           | Client Reference:    |      |       |      | TP01        | TP02        |
|                             |           | Sample Type:         |      |       |      | SOIL        | SOIL        |
|                             |           | Top Depth (m):       |      |       |      | 0.5         | 1.4         |
|                             |           | Bottom Depth (m):    |      |       |      | 0.5         | 1.4         |
|                             |           | Date Sampled:        |      |       |      | 01-May-2025 | 01-May-2025 |
|                             |           | Time Sampled:        |      |       |      | 12:00       | 12:00       |
|                             |           | Asbestos Lab:        |      |       |      | DURHAM      | DURHAM      |
| Determinand                 | HWOL Code | Accred.              | SOP  | Units | LOD  |             |             |
| Isopropylbenzene            |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Bromobenzene                |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,2,3-Trichloropropane      |           | N                    | 2760 | µg/kg | 50   | < 50        | < 50        |
| N-Propylbenzene             |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 2-Chlorotoluene             |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,3,5-Trimethylbenzene      |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 4-Chlorotoluene             |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Tert-Butylbenzene           |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,2,4-Trimethylbenzene      |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Sec-Butylbenzene            |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,3-Dichlorobenzene         |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 4-Isopropyltoluene          |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,4-Dichlorobenzene         |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| N-Butylbenzene              |           | U                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,2-Dichlorobenzene         |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,2-Dibromo-3-Chloropropane |           | N                    | 2760 | µg/kg | 50   | < 50        | < 50        |
| 1,2,4-Trichlorobenzene      |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Hexachlorobutadiene         |           | N                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| 1,2,3-Trichlorobenzene      |           | U                    | 2760 | µg/kg | 2.0  | < 2.0       | < 2.0       |
| Methyl Tert-Butyl Ether     |           | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| N-Nitrosodimethylamine      |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Phenol                      |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Chlorophenol              |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Bis-(2-Chloroethyl)Ether    |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 1,3-Dichlorobenzene         |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 1,4-Dichlorobenzene         |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 1,2-Dichlorobenzene         |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Methylphenol              |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Bis(2-Chloroisopropyl)Ether |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Hexachloroethane            |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| N-Nitrosodi-n-propylamine   |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Methylphenol              |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Nitrobenzene                |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Isophorone                  |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Nitrophenol               |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |



## Results - Soil

**Project: HillCrest**

|                            |           |                      |      |       |      |             |             |
|----------------------------|-----------|----------------------|------|-------|------|-------------|-------------|
| Client: Terra Firma        |           | Chemtest Job No.:    |      |       |      | 25-15184    | 25-15184    |
| Quotation No.:             |           | Chemtest Sample ID.: |      |       |      | 1969890     | 1969891     |
| Order No.: 17412           |           | Client Sample Ref.:  |      |       |      | TP01 0.5    | TP02 1.4    |
|                            |           | Client Sample ID.:   |      |       |      | TP01 0.5    | TP02 1.4    |
|                            |           | Client Reference:    |      |       |      | TP01        | TP02        |
|                            |           | Sample Type:         |      |       |      | SOIL        | SOIL        |
|                            |           | Top Depth (m):       |      |       |      | 0.5         | 1.4         |
|                            |           | Bottom Depth (m):    |      |       |      | 0.5         | 1.4         |
|                            |           | Date Sampled:        |      |       |      | 01-May-2025 | 01-May-2025 |
|                            |           | Time Sampled:        |      |       |      | 12:00       | 12:00       |
|                            |           | Asbestos Lab:        |      |       |      | DURHAM      | DURHAM      |
| Determinand                | HWOL Code | Accred.              | SOP  | Units | LOD  |             |             |
| 2,4-Dimethylphenol         |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Bis(2-Chloroethoxy)Methane |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2,4-Dichlorophenol         |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 1,2,4-Trichlorobenzene     |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Naphthalene                |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Chloroaniline            |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Hexachlorobutadiene        |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Chloro-3-Methylphenol    |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Methylnaphthalene        |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Nitrophenol              |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2,4,6-Trichlorophenol      |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2,4,5-Trichlorophenol      |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Chloronaphthalene        |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2-Nitroaniline             |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Acenaphthylene             |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Dimethylphthalate          |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2,6-Dinitrotoluene         |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Acenaphthene               |           | M                    | 2790 | mg/kg | 0.50 | 1.3         | 3.7         |
| 3-Nitroaniline             |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Dibenzofuran               |           | M                    | 2790 | mg/kg | 0.50 | 1.3         | 2.1         |
| 4-Chlorophenylphenylether  |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 2,4-Dinitrotoluene         |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Fluorene                   |           | M                    | 2790 | mg/kg | 0.50 | 1.7         | 4.0         |
| Diethyl Phthalate          |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Nitroaniline             |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Azobenzene                 |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| 4-Bromophenylphenyl Ether  |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Hexachlorobenzene          |           | M                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Phenanthrene               |           | M                    | 2790 | mg/kg | 0.50 | 23          | 22          |
| Anthracene                 |           | M                    | 2790 | mg/kg | 0.50 | 6.8         | 4.4         |
| Carbazole                  |           | M                    | 2790 | mg/kg | 0.50 | 1.4         | 1.0         |
| Di-N-Butyl Phthalate       |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Fluoranthene               |           | M                    | 2790 | mg/kg | 0.50 | 37          | 28          |
| Pyrene                     |           | M                    | 2790 | mg/kg | 0.50 | 27          | 19          |
| Butylbenzyl Phthalate      |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |

## Results - Soil

**Project: HillCrest**

|                            |           |                      |      |       |      |             |             |
|----------------------------|-----------|----------------------|------|-------|------|-------------|-------------|
| Client: Terra Firma        |           | Chemtest Job No.:    |      |       |      | 25-15184    | 25-15184    |
| Quotation No.:             |           | Chemtest Sample ID.: |      |       |      | 1969890     | 1969891     |
| Order No.: 17412           |           | Client Sample Ref.:  |      |       |      | TP01 0.5    | TP02 1.4    |
|                            |           | Client Sample ID.:   |      |       |      | TP01 0.5    | TP02 1.4    |
|                            |           | Client Reference:    |      |       |      | TP01        | TP02        |
|                            |           | Sample Type:         |      |       |      | SOIL        | SOIL        |
|                            |           | Top Depth (m):       |      |       |      | 0.5         | 1.4         |
|                            |           | Bottom Depth (m):    |      |       |      | 0.5         | 1.4         |
|                            |           | Date Sampled:        |      |       |      | 01-May-2025 | 01-May-2025 |
|                            |           | Time Sampled:        |      |       |      | 12:00       | 12:00       |
|                            |           | Asbestos Lab:        |      |       |      | DURHAM      | DURHAM      |
| Determinand                | HWOL Code | Accred.              | SOP  | Units | LOD  |             |             |
| Benzo[a]anthracene         |           | M                    | 2790 | mg/kg | 0.50 | 22          | 12          |
| Chrysene                   |           | M                    | 2790 | mg/kg | 0.50 | 19          | 11          |
| Bis(2-Ethylhexyl)Phthalate |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Di-N-Octyl Phthalate       |           | N                    | 2790 | mg/kg | 0.50 | < 0.50      | < 0.50      |
| Benzo[b]fluoranthene       |           | M                    | 2790 | mg/kg | 0.50 | 22          | 18          |
| Benzo[k]fluoranthene       |           | M                    | 2790 | mg/kg | 0.50 | 6.9         | 4.6         |
| Benzo[a]pyrene             |           | M                    | 2790 | mg/kg | 0.50 | 16          | 9.7         |
| Indeno(1,2,3-c,d)Pyrene    |           | N                    | 2790 | mg/kg | 0.50 | 7.7         | 5.5         |
| Dibenz(a,h)Anthracene      |           | N                    | 2790 | mg/kg | 0.50 | 3.6         | 280         |
| Benzo[g,h,i]perylene       |           | M                    | 2790 | mg/kg | 0.50 | 4.6         | 5.7         |
| Total Phenols              |           | M                    | 2920 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Organic Matter BS1377      |           | N                    | 2930 | %     | 0.10 | 6.7         | 3.7         |

## Test Methods

| SOP  | Title                                                               | Parameters included                                                                                                                                                                                                                                          | Method summary                                                                                                                                                                         | Water Accred. |
|------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2010 | pH Value of Soils                                                   | pH at 20°C                                                                                                                                                                                                                                                   | pH Meter                                                                                                                                                                               |               |
| 2030 | Moisture and Stone Content of Soils(Requirement of MCERTS)          | Moisture content                                                                                                                                                                                                                                             | Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.                                                                                   |               |
| 2040 | Soil Description(Requirement of MCERTS)                             | Soil description                                                                                                                                                                                                                                             | As received soil is described based upon BS5930                                                                                                                                        |               |
| 2120 | Water Soluble Boron, Sulphate, Magnesium & Chromium                 | Boron; Sulphate; Magnesium; Chromium                                                                                                                                                                                                                         | Aqueous extraction / ICP-OES                                                                                                                                                           |               |
| 2192 | Asbestos                                                            | Asbestos                                                                                                                                                                                                                                                     | Polarised light microscopy / Gravimetry                                                                                                                                                |               |
| 2300 | Cyanides & Thiocyanate in Soils                                     | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                              | Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.                                                                                    |               |
| 2430 | Total Sulphate in soils                                             | Total Sulphate                                                                                                                                                                                                                                               | Acid digestion followed by determination of sulphate in extract by ICP-OES.                                                                                                            |               |
| 2450 | Acid Soluble Metals in Soils                                        | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                     | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2455 | Acid Soluble Metals in Soils                                        | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                     | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2490 | Hexavalent Chromium in Soils                                        | Chromium [VI]                                                                                                                                                                                                                                                | Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine. |               |
| 2690 | EPH A/A Split                                                       | Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40<br>Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40                                                                                                                              | Acetone/Heptane extraction / GCxGC FID detection                                                                                                                                       |               |
| 2700 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID | Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene | Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)                                                   |               |
| 2760 | Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS       | Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule                                                                                                                         | Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.                             |               |
| 2780 | VPH A/A Split                                                       | Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10<br>Aromatics: >C5–C7,>C7–C8,>C8–C10                                                                                                                                                                                | Water extraction / Headspace GCxGC FID detection                                                                                                                                       |               |
| 2790 | Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS           | Semi-volatile organic compounds(cf. USEPA Method 8270)                                                                                                                                                                                                       | Acetone/Hexane extraction / GC-MS                                                                                                                                                      |               |
| 2920 | Phenols in Soils by HPLC                                            | Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.                                                                                                            | 60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.                                                                               |               |
| 2930 | Organic Matter                                                      | Organic Matter                                                                                                                                                                                                                                               | Acid Dichromate digestion/Titration                                                                                                                                                    |               |

## **Report Information**

---

### **Key**

|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

*Text example* All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory  
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.  
Any comments or interpretations are outside the scope of UKAS accreditation.  
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.  
Uncertainty of measurement for the determinands tested are available upon request .  
None of the results in this report have been recovery corrected.  
All results are expressed on a dry weight basis.  
  
The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.  
For all other tests the samples were dried at  $\leq 30^{\circ}\text{C}$  prior to analysis.  
All Asbestos testing is performed at the indicated laboratory .  
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW\_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL  
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

---

### **Sample Deviation Codes**

**As a result of any of the below deviations applying, the test results may be unreliable**

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

---

### **Sample Retention and Disposal**

All soil samples will be retained for a period of 30 days from the date of receipt.  
All water samples will be retained for 14 days from the date of receipt.  
Charges may apply to extended sample storage.



## **Report Information**

### **Water Sample Category Key for Accreditation**

DW - Drinking Water  
GW - Ground Water  
LE - Land Leachate  
NA - Not Applicable  
PL - Prepared Leachate  
PW - Processed Water  
RE - Recreational Water  
SA - Saline Water  
SW - Surface Water  
TE - Treated Effluent  
TS - Treated Sewage  
UL - Unspecified Liquid

### **Clean Up Codes**

NC - No Clean Up  
MC - Mathematical Clean Up  
FC - Florisil Clean Up

### **HWOL Acronym System**

HS - Headspace analysis  
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent  
CU - Clean-up – e.g. by Florisil, silica gel  
1D - GC – Single coil gas chromatography  
Total - Aliphatics & Aromatics  
AL - Aliphatics only  
AR - Aromatic only  
2D - GC-GC – Double coil gas chromatography  
#1 - EH\_2D\_Total but with humics mathematically subtracted  
#2 - EH\_2D\_Total but with fatty acids mathematically subtracted  
+ - Operator to indicate cumulative e.g. EH+EH\_Total or EH\_CU+HS\_Total

### **Asbestos Tests LOD = LOQ**

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.com](mailto:customerservices@chemtest.com)

**ANNEX G**  
**Ground Gas Monitoring Results**

|                     |                               |                        |       |         |       |
|---------------------|-------------------------------|------------------------|-------|---------|-------|
| Site Name:          | Hadyn Terrace, Merthyr Tydfil |                        |       |         |       |
|                     |                               |                        | WS01  | WS02    | WS03  |
| Round               | 1                             | % CH <sub>4</sub>      | -     | -       | -     |
| Date                | 3.3.15                        | % CH <sub>4</sub> Peak | 0     | 0       | 0     |
| Weather             | dry                           | % LEL                  | -     | -       | -     |
| Barometric pressure | 989 mb                        | % CO <sub>2</sub>      | 0     | 2.5     | 2.3   |
|                     |                               | % O <sub>2</sub>       | 21.1  | 17.9    | 19.3  |
|                     |                               | CO (ppm)               | 0     | 0       | 0     |
|                     |                               | H <sub>2</sub> S (ppm) | 0     | 0       | 0     |
|                     |                               | Flow (l/hr)            | 0     | 0       | 0     |
|                     |                               | Water level            | 1.63m | Dry(5m) | 3.53m |

|                     |          |                        |      |         |      |
|---------------------|----------|------------------------|------|---------|------|
|                     |          |                        | WS01 | WS02    | WS03 |
| Round               | 2        | % CH <sub>4</sub>      | -    | -       | -    |
| Date                | 11.3.15  | % CH <sub>4</sub> Peak | 0.5  | 0.5     | 0.5  |
| Weather             | Overcast | % LEL                  | -    | -       | -    |
| Barometric pressure | 978 mb   | % CO <sub>2</sub>      | 0    | 2.5     | 2.2  |
|                     |          | % O <sub>2</sub>       | 21   | 18.4    | 19.6 |
|                     |          | CO (ppm)               | 0    | 0       | 0    |
|                     |          | H <sub>2</sub> S (ppm) | 1    | 1       | 1    |
|                     |          | Flow (l/hr)            | 0    | 0       | 0    |
|                     |          | Water level            | 1.78 | Dry(5m) | 3.67 |

|                     |         |                        |       |         |       |
|---------------------|---------|------------------------|-------|---------|-------|
|                     |         |                        | WS01  | WS02    | WS03  |
| Round               | 3       | % CH <sub>4</sub>      | -     | -       | -     |
| Date                | 19.3.15 | % CH <sub>4</sub> Peak | 0.1   | 0.1     | 0.1   |
| Weather             | Sunny   | % LEL                  | -     | -       | -     |
| Barometric pressure | 994 mb  | % CO <sub>2</sub>      | 0     | 2.9     | 2.4   |
|                     |         | % O <sub>2</sub>       | 21.2  | 16.9    | 19    |
|                     |         | CO (ppm)               | 0     | 0       | 0     |
|                     |         | H <sub>2</sub> S (ppm) | 0     | 0       | 0     |
|                     |         | Flow (l/hr)            | 0     | 0       | 0     |
|                     |         | Water level            | 1.84m | Dry(5m) | 3.79m |

|                     |        |                        |       |         |      |
|---------------------|--------|------------------------|-------|---------|------|
|                     |        |                        | WS01  | WS02    | WS03 |
| Round               | 4      | % CH <sub>4</sub>      | -     | -       | -    |
| Date                | 9.4.15 | % CH <sub>4</sub> Peak | 0.2   | 0.1     | 0.1  |
| Weather             | Sunny  | % LEL                  | 0.20% | -       | -    |
| Barometric pressure | 987 mb | % CO <sub>2</sub>      | 0     | 3.1     | 2.2  |
|                     |        | % O <sub>2</sub>       | 20.6  | 17.3    | 19.5 |
|                     |        | CO (ppm)               | 1     | 0       | 0    |
|                     |        | H <sub>2</sub> S (ppm) | 0     | 0       | 0    |
|                     |        | Flow (l/hr)            | 0     | 0       | 0    |
|                     |        | Water level            | 1.7   | Dry(5m) |      |

|                     |         |                        |      |         |      |
|---------------------|---------|------------------------|------|---------|------|
|                     |         |                        | WS01 | WS02    | WS03 |
| Round               | 5       | % CH <sub>4</sub>      | -    | -       | -    |
| Date                | 16.4.15 | % CH <sub>4</sub> Peak | 0    | 0       | 0    |
| Weather             | Sunny   | % LEL                  | 0    | 0       | 0    |
| Barometric pressure | 976 mb  | % CO <sub>2</sub>      | 0    | 4       | 4    |
|                     |         | % O <sub>2</sub>       | 20.5 | 10.4    |      |
|                     |         | CO (ppm)               | 0    | 1       |      |
|                     |         | H <sub>2</sub> S (ppm) | 0    | 0       |      |
|                     |         | Flow (l/hr)            | 0    | 0       |      |
|                     |         | Water level            | 1.74 | Dry(5m) |      |

|                     |        |                        |      |         |      |
|---------------------|--------|------------------------|------|---------|------|
|                     |        |                        | WS01 | WS02    | WS03 |
| Round               | 6      | % CH <sub>4</sub>      | -    | -       | -    |
| Date                | 7.5.15 | % CH <sub>4</sub> Peak | 0    | 0       | 0    |
| Weather             | Dry    | % LEL                  | -    | -       | -    |
| Barometric pressure | 994 mb | % CO <sub>2</sub>      | 0    | 2.5     |      |
|                     |        | % O <sub>2</sub>       | 21   | 18.5    |      |
|                     |        | CO (ppm)               | 0    | 0       |      |
|                     |        | H <sub>2</sub> S (ppm) | 0    | 0       |      |
|                     |        | Flow (l/hr)            | 0    | 0       |      |
|                     |        | Water level            | 1.75 | Dry(5m) |      |

#### Calculation of Gas Screening Value (after 6 rounds)

|                      |                 |                           |
|----------------------|-----------------|---------------------------|
| Max. CH <sub>4</sub> | 0.5             | %                         |
| Max. CO <sub>2</sub> | 4               | %                         |
| Max flow rate (+)    | 0.1             | l/hr (Limit of detection) |
| GSV                  | CH <sub>4</sub> | 0.0005 lh                 |
| GSV                  | CO <sub>2</sub> | 0.004 lh                  |

**ANNEX H**  
**Geotechnical Test Results**



**TEST REPORT**  
**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX**  
**BS 1377:Part 2:1990: Clause 4.3/5.3/5.4**

|                       |               |                 |                                                                     |
|-----------------------|---------------|-----------------|---------------------------------------------------------------------|
| <b>Project No:</b>    | D5072-15      | <b>Client:</b>  | Terra Firma (Wales) Ltd                                             |
| <b>Project Name:</b>  | Haydn Terrace | <b>Address:</b> | Unit 5,<br>Deryn Court,<br>Wharfedale Road,<br>Cardiff,<br>CF23 7HB |
| <b>ATS Sample No:</b> | 4838          |                 |                                                                     |

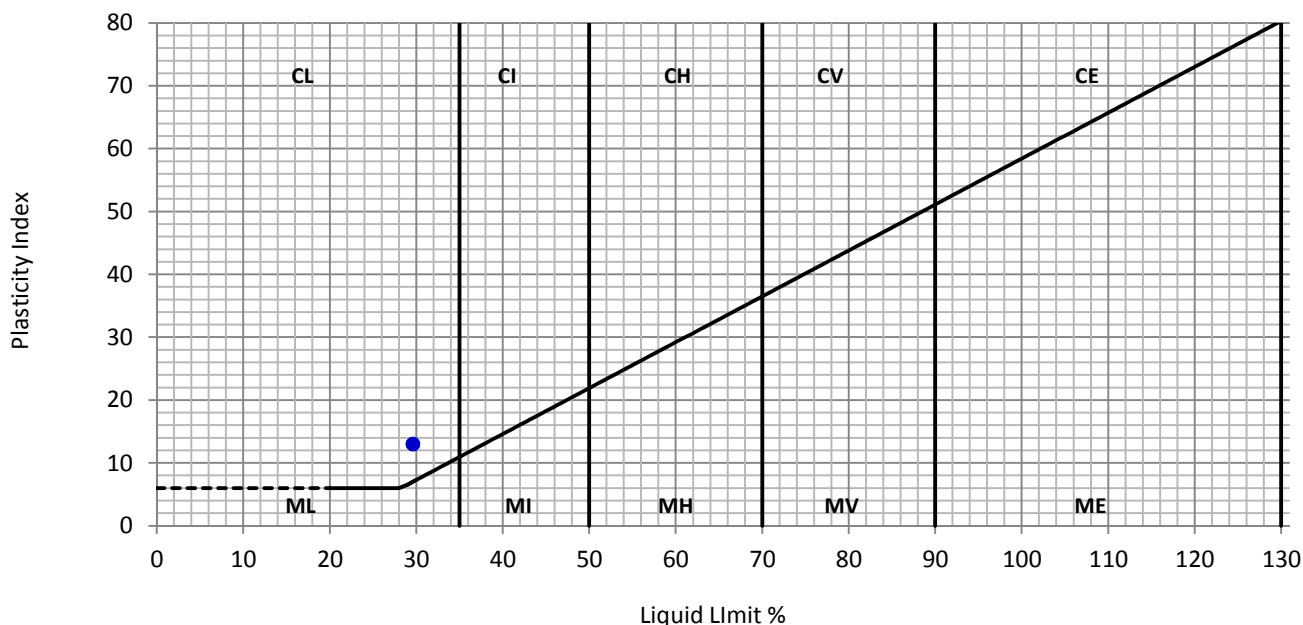
  

|                                       |                  |                              |                                                  |
|---------------------------------------|------------------|------------------------------|--------------------------------------------------|
| <b>Site Ref / Hole ID:</b>            | TP3              | <b>Depth (m):</b>            | 1.50                                             |
| <b>Sample No:</b>                     |                  | <b>Sample Type:</b>          | Disturbed                                        |
| <b>Sampling Certificate Received:</b> | No               | <b>Material Description:</b> | Brown grey slightly gravelly slightly sandy CLAY |
| <b>Location in Works:</b>             | Unknown          | <b>Material Source:</b>      | N/A                                              |
| <b>Date Sampled:</b>                  | Unknown          | <b>Material Supplier:</b>    | N/A                                              |
| <b>Sampled By:</b>                    | Client           | <b>Specification:</b>        | BS1377                                           |
| <b>Date Received:</b>                 | 25 February 2015 | <b>Date Tested:</b>          | 04 March 2015                                    |

**Test Results**

|                  |    |   |
|------------------|----|---|
| Liquid Limit     | 30 | % |
| Plastic Limit    | 17 | % |
| Plasticity Index | 13 | % |

|                                     |                       |
|-------------------------------------|-----------------------|
| Preparation:                        | 4.2.4 Sieved Specimen |
| Proportion retained on 425µm sieve: | 15 %                  |



**Remarks:**

QA Ref.

BS1377-2  
Rev 3.0



**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle,  
Bridgend, CF33 6BZ  
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

*R Maiden*

L Maiden, Laboratory Supervisor

Date

06/03/2015

Fig.

**ATT 1**

**TEST REPORT**  
**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX**  
**BS 1377:Part 2:1990: Clause 4.3/5.3/5.4**

|                       |               |                 |                                                                     |
|-----------------------|---------------|-----------------|---------------------------------------------------------------------|
| <b>Project No:</b>    | D5072-15      | <b>Client:</b>  | Terra Firma (Wales) Ltd                                             |
| <b>Project Name:</b>  | Haydn Terrace | <b>Address:</b> | Unit 5,<br>Deryn Court,<br>Wharfedale Road,<br>Cardiff,<br>CF23 7HB |
| <b>ATS Sample No:</b> | 4839          |                 |                                                                     |

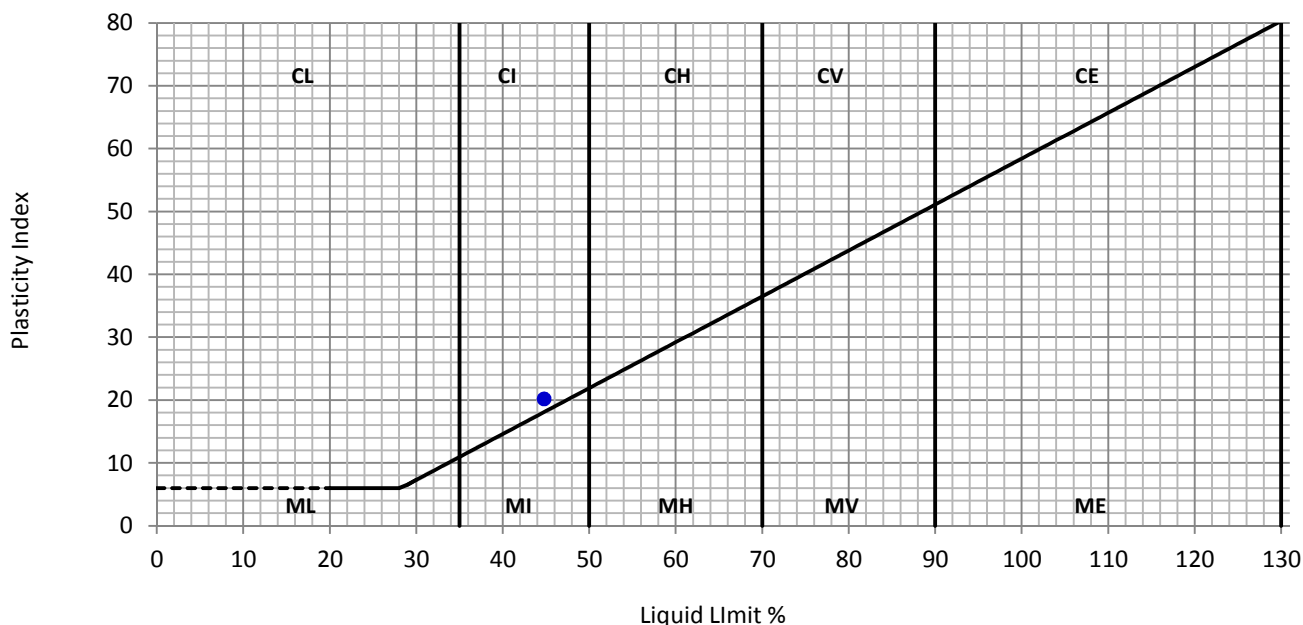
  

|                                       |                  |                              |                                             |
|---------------------------------------|------------------|------------------------------|---------------------------------------------|
| <b>Site Ref / Hole ID:</b>            | TP4              | <b>Depth (m):</b>            | 1.50                                        |
| <b>Sample No:</b>                     |                  | <b>Sample Type:</b>          | Disturbed                                   |
| <b>Sampling Certificate Received:</b> | No               | <b>Material Description:</b> | Brown slightly gravelly slightly sandy CLAY |
| <b>Location in Works:</b>             | Unknown          | <b>Material Source:</b>      | N/A                                         |
| <b>Date Sampled:</b>                  | Unknown          | <b>Material Supplier:</b>    | N/A                                         |
| <b>Sampled By:</b>                    | Client           | <b>Specification:</b>        | BS1377                                      |
| <b>Date Received:</b>                 | 25 February 2015 | <b>Date Tested:</b>          | 04 March 2015                               |

**Test Results**

|                  |    |   |
|------------------|----|---|
| Liquid Limit     | 45 | % |
| Plastic Limit    | 25 | % |
| Plasticity Index | 20 | % |

|                                     |                       |
|-------------------------------------|-----------------------|
| Preparation:                        | 4.2.4 Sieved Specimen |
| Proportion retained on 425µm sieve: | 19 %                  |



**Remarks:**

QA Ref.

BS1377-2  
Rev 3.0



**Apex Testing Solutions**

Sturmi Way, Village Farm Industrial Est, Pyle,  
Bridgend, CF33 6BZ  
Tel: 01656 746762 Fax: 01656 749096



7771

Approver

*R Maiden*

L Maiden, Laboratory Supervisor

Date

06/03/2015

Fig.

**ATT 2**

**ANNEX I**  
**Coal Authority Mining Report**



Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG  
Website: [www.groundstability.com](http://www.groundstability.com) Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP  
LIMITED  
SOWTON INDUSTRIAL ESTATE  
ABBAY COURT  
UNIT 5/7 EAGLE WAY  
EXETER  
DEVON  
EX2 7HY**

Our reference: **51000783979001**  
Your reference: **64329490\_2|**  
Date of your enquiry: **10 February 2015**  
Date we received your enquiry: **10 February 2015**  
Date of issue: **10 February 2015**

This report is for the property described in the address below and the attached plan.

**Non-Residential Coal Authority Mining Report**

**HAYDN TERRACE, MERTHYR TYDFIL,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

|                             |                    |
|-----------------------------|--------------------|
| Coal mining                 | See comments below |
| Brine Compensation District | No                 |

***Information from the Coal Authority***

**Underground coal mining**

**Past**

According to the records in our possession, the property is not within the zone of likely physical influence on the surface from past underground workings.

**Present**

The property is not in the likely zone of influence of any present underground coal workings.

**Future**

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.



However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

### **Mine entries**

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

### **Coal mining geology**

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

### **Opencast coal mining**

#### **Past**

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

#### **Present**

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

#### **Future**

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

### **Coal mining subsidence**

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

### **Mine gas**

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

### **Hazards related to coal mining**

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

### **Withdrawal of support**

The property is not in an area for which a notice of entitlement to withdraw support has been published.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

### **Working facilities orders**

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

### **Payments to owners of former copyhold land**

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

***Information from the Cheshire Brine Subsidence Compensation Board***

The property lies outside the Cheshire Brine Compensation District.

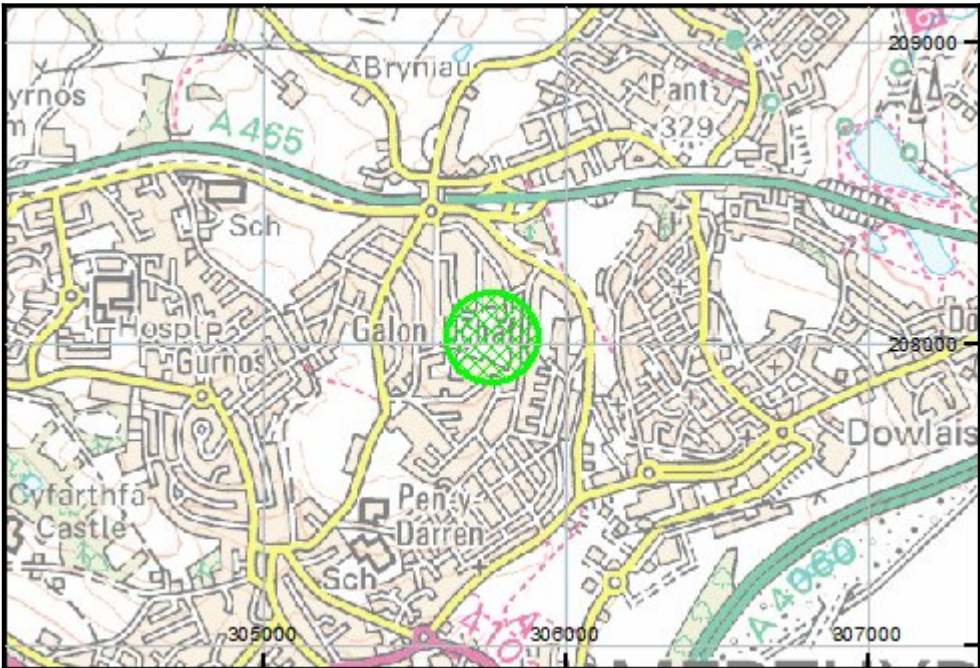
***Additional Remarks***

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

Location map



Approximate position of property

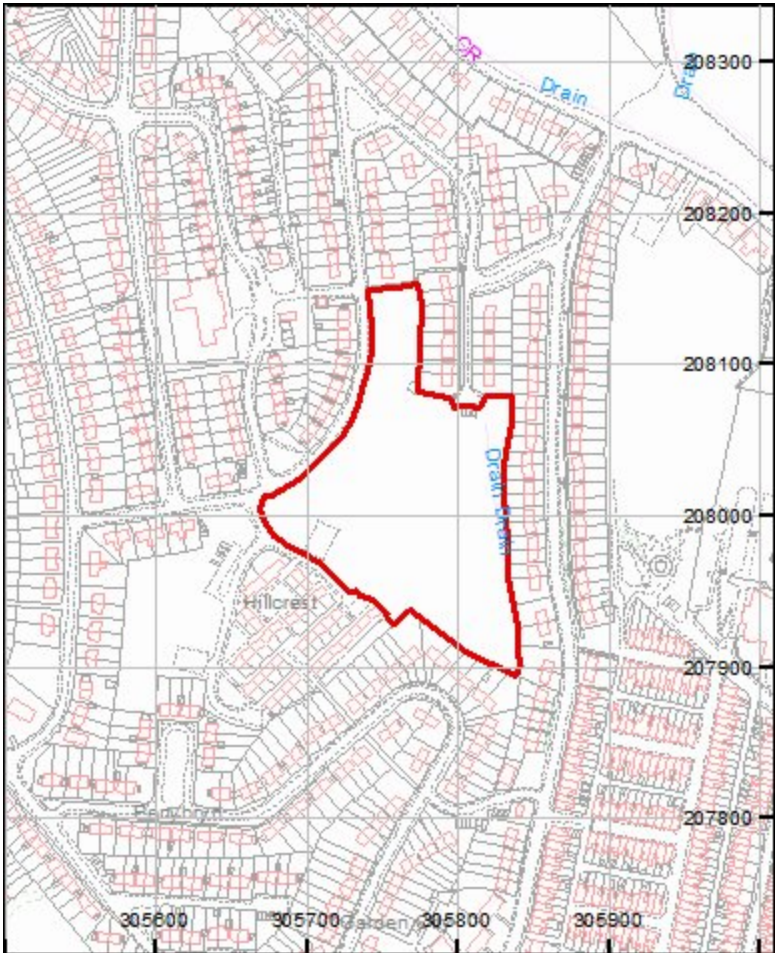


Enquiry boundary

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Key

Approximate position of enquiry boundary shown



**DRAWINGS**





Job Number:

17412

Job Title:

Haydn Terrace, Merthyr Terrace

Drawing Title:

**Site Layout - 2022**

Drawing Number:

02

Scale:

**NTS**

Legend:





Job Number:

13082

Job Title:

Haydn Terrace, Merthyr Terrace

Drawing Title:

Site Layout

Drawing Number:

02

Scale:

NTS

Legend:

Approximate Site Boundary



Approximate Extent of  
Sandstone Quarry in 1919



Approximate Trial Pit Location



Approximate Borehole Location



(Borehole with standpipe)









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