

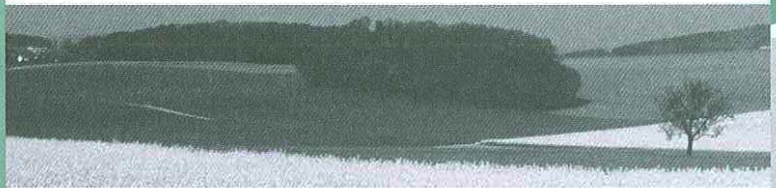
**Geotechnical and Geoenvironmental
Report:**

Proposed Residential Development
Land Adjacent to Park Avenue, Glynneath

PREPARED FOR:
Manning Construction

September 2020

Job No: 15710/2



REPORT TITLE : **Geotechnical and Geoenvironmental Report:**
Proposed Residential Development, Land Adjacent
to Park Avenue

REPORT STATUS : **V2**

JOB NUMBER : **15710/2**

DATE : **September 2020**

REPORT REFERENCE : **08/09/2020-15710-2**

Document Revision Record

Issue Number	Date	Revision Details
1	November 2010	TP Investigation 2010
2	September 2020	Supplementary WS Investigation and Update

	Name	Signature
Prepared	David Emanuel BSc (Hons), MSc, FGS, Dip.Chem, M Phil, CGeol	
Checked	Mathew Lake MEng FGS Tech IOSH	
Approved	Gwyn Lake BSc (Hons). PhD, CGeol, FGS	



Executive Summary

Site Location and Proposed Development	<i>The Site locates adjacent to park Avenue, Glynneath centred on a National Grid Reference of 287770 206560.</i>
Site History	<i>The site has historically contained a welfare hall, which was demolished after 2010.</i>
Geology	<i>The site is underlain by rocks of the Lower Coal Measures.</i>
Radon	<i>A Radon Report concludes that No Radon Protection is required at the site.</i>
Coal Mining Risk Assessment	<i>The Coal Authority conclude that there is no risk of mine related subsidence at the site.</i>
Ground Conditions	<i>A mantle of Made Ground was seen to cover Superficial Deposits of Firm to Stiff cohesive deposits to medium dense to dense granular deposits.</i>
Contamination of Concern	<i>Soil chemical testing detected incidents of elevated As and PAH Species during both 2010 and 2020. TP04 contained the Volatile PAH Naphthalene, and this was excavated out following the 2010 investigation.</i>
Ground Gas Risk Assessment	<i>The Desk Study did not identify a significant source of soil gas.</i> <i>A British Geological Survey Radon Report identified that Basic Radon Protection was required at the site.</i>
Foundation Solution	<i>We would recommend the use of mass concrete strip foundations with a foundation load of 100kN/m² extending into the firm to stiff clay/medium dense to dense gravels. If a foundation is founded in both clay and gravel reinforcement is recommended.</i> <i>Foundations in clay should be designed in accordance with NHBC Guidelines</i> <i>Floor slabs should be designed as suspended.</i>
Recommended Further Works	<i>A remediation Strategy should be prepared, detailing the measures necessary to render the site suitable for its proposed end use. We recommend that garden / landscaped areas be capped with 600mm of 'Clean' soils conforming to the Generic Assessment Criteria.</i>

TABLE OF CONTENTS

SECTION 1 Introduction and Proposed Development	1
1.1 Introduction	1
1.2 Limitations and Exceptions of Investigation	1
1.3 Quality Assurance	1
SECTION 2 Review of Existing Data	2
2.1 Physical Setting and Current Site Use	2
2.2 Site History	3
2.3 Geological Setting	4
2.3.1 Geology	4
2.3.2 BGS Borehole Information	4
2.3.3 Radon	4
2.3.4 Mining	5
2.4 Environmental Setting	5
2.4.1 Hydrogeology	5
2.4.2 Hydrology	5
2.4.3 Flooding	5
2.4.4 Waste	5
2.4.5 Pollution	6
2.4.6 Sensitive Land Use	6
2.4.7 Industrial Land Use	6
2.4.8 Infilled Land	6
2.5 Ecology	7
2.6 Archaeology	7
SECTION 3 Coal Mining Risk Assessment	8
3.1 Underground Mining	8
3.2 Shafts & Adits	8
3.3 Conclusion	8
SECTION 4 Preliminary Human Health and Environmental Risk Assessment	9
4.1 General	9
4.2 Potential Sources of Contamination	9
4.3 Potential Pollution Pathways	9
4.4 Potential Receptors	10
4.5 Preliminary Conceptual Site Model	10
SECTION 5 Field Investigation	13
5.1 Site Works	13
5.2 Ground Conditions	13
5.3 Groundwater	13
5.4 Stability and Obstructions	13
5.5 Laboratory Chemical Testing	14
5.5.1 Sampling Strategy	14
5.5.2 Soil Laboratory Analysis	15
5.6 Soil Property Testing	16
5.6.1 Laboratory Geotechnical Testing	16
SECTION 6 Evaluation of Geoenvironmental Analytical Results	17
6.1 Assessment Methodology	17

6.2	Soil Test Results	17
6.2.1	Inorganics & Miscellaneous	18
6.2.2	Organics	19
6.2.3	Asbestos Testing	20
SECTION 7	Geotechnical Testing Results	21
7.1	Plasticity & Moisture Content Testing	21
SECTION 8	Quantitative Risk Assessment	22
8.1	Contaminants of Concern	22
8.2	Pollutant Linkages	22
8.3	Refined Illustrative Conceptual Site Model	23
8.4	Mitigation and Remedial Measures	23
8.4.1	Human Health	24
8.4.1.1	Contaminated Soils	24
8.4.1.2	Ground Gas/Radon	24
8.4.2	Aquatic Environment	25
SECTION 9	Engineering Recommendations	26
9.1	Preparation of Site	26
9.2	Foundation and Floor Slab Solution	26
9.3	Excavations and Formations	27
9.4	Protection of Buried Concrete	27
9.5	Access Roads and Car Parking Areas	27
9.6	Reuse of Site Won Material	28

Tables

Table 2.1	Historical Development from Map Information	3
Table 2.2	Detailed Stratigraphical Information	4
Table 2.3	Relevant Contemporary Trade Summary	6
Table 2.4	Potentially Infilled Land	6
Table 4.1	Contamination Sources	9
Table 4.2	Preliminary Conceptual Site Model	11
Table 5.1	Summary of Typical Ground Conditions	13
Table 5.2	Sample Locations, Depths and Targets	14
Table 5.3	Soil Laboratory Analysis	15
Table 5.4	Summary of Geotechnical Testing	16
Table 6.1	Summary of Soil Chemical Test Results – Inorganics & Miscellaneous	18
Table 6.2	Summary of Soil Chemical Test Results – Speciated Polycyclic Aromatic Hydrocarbons	19
Table 6.3	Summary of Soil Chemical Test Results – Petroleum Hydrocarbons	20
Table 6.4	Summary of Soil Chemical Test Results – Phenols	20
Table 7.1	Plasticity & Moisture Content Test Results	21
Table 8.1	Contaminants of Concern	22
Table 8.2	Refined Conceptual Site Model	22

Figures

Figure 2.1 Site Location	2
Figure 8.1 Refined Illustrative Conceptual Site Model	23

Annexes

ANNEX A Envirocheck Report	
ANNEX B Radon Report	
ANNEX C Coal Authority Mining Report	
ANNEX D Risk Assessment Definitions	
ANNEX E Trail Pit and Borehole Logs	
ANNEX F Laboratory Soil Chemical Test Results	
ANNEX G Geotechnical Test Results	

Drawings

Drawing 01 Exploratory Hole Locations	
---------------------------------------	--

SECTION 1 Introduction and Proposed Development

1.1 Introduction

Manning Construction (The Client) is proposing the development of housing adjacent to Park Avenue, Glynneath.

Terra Firma (Wales) Limited have been commissioned by Manning Construction to undertake a geo-environmental assessment and geotechnical investigation of the site.

The main objectives of the geo-environmental 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 recommendations regarding any other geotechnical aspects pertaining to the development

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a site walkover, a review of existing data, followed by a field investigation to collect geotechnical and geo-environmental data from selected locations.

1.2 Limitations and Exceptions of Investigation

The Client has requested that a Geo-environmental 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 Terra Firma (Wales) 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 geo-environmental and geotechnical consultants. Terra Firma (Wales) 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 investigation was limited by buried services and stockpiles.

1.3 Quality Assurance

The quality and environmental aspects of the assessment and investigation comply with UKAS Accredited 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 adjacent to Park Avenue, Glynneath. The site centres on an approximate National Grid Reference of 287770 206560, occupying a plan area of approximately 0.8 Hectares.

The site was visited on 21st October 2010 and was seen to comprise a tarmac surfaced carpark in the south with areas of open land to the north including a derelict building and the site of a demolished clubhouse. Rough vegetation was noted in the north of the site, including a population of Japanese Knotweed. During a visit on 27th August 2020 the club had been demolished and a stockpile lay in its place.

The site elevation is approximately 55 AOD with the north of the site sitting at a higher elevation than the south.

The site location can be seen on **Figure 2.1** along with the 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 are approximate, and any changes in-between map editions may not be recorded

Table 2.1 Historical Development from Map Information

Map Edition	Key Features on Site	Key Features off Site
1875/1877	The site comprises undeveloped land traversed by what appears to be a stream/reen.	Small areas of housing locate 95m E and 350m E of the site. Farms locate in the vicinity. A disused school locates 200m W of the site. Abernant Iron and Brick Works locate 300m SE of the site and Glynneath Wollen Mill lies 450m SW of the site. A Burial Ground lies 150m W of the site. Coal Levels locate 300m NE of the site.
1884/1899/1900	The site remains unchanged.	Carbon Works and Cement Works are also identified at Abernant Brick Works by 1899
1918/1919	The site remains unchanged.	Railway Sidings and Coal Screens have been constructed 260m ENE of the site. Urban expansion has occurred 260m E of the site with the addition of terrace housing.
1921	The site remains unchanged.	The immediate surrounding area remains unchanged.
1938	An unidentified building locates within the centre of the site.	Housing has been developed immediately east and south of the site. A small building locates immediately W of the site.
1953	The site remains unchanged.	Housing developed immediately N of site.
1962/1964	Building within site identified as Glynneath Welfare Hall. Land to W identified as Playing Field.	No Major changes.
1972/1977/1981/1984	An additional small building locates to the N of the Welfare Hall	A library has been developed immediately E of the site.
1991/1993/1995/1996/2000/2006/	The site remains unchanged.	The immediate surrounding area remains unchanged.
2020	The building were removed from the site by this date.	The immediate surrounding area remains unchanged.

2.3 Geological Setting

2.3.1 Geology

The 1:10,560 scale British Geological Map of the area (Sheet SN 80 NE, 1966) was consulted for geology underlying the site. The site is shown to be underlain by Rocks of the Lower Coal Measures, near the conjectured outcrop of the Gnaipog (Garw) Coal Seam. This seam is recorded as 'thin'.

Bedrock is shown to have a superficial cover of Recent- Pleistocene alluvium.

Detailed stratigraphical information is provided in **Table 2.2**.

Table 2.2 Detailed Stratigraphical Information

Period	Group	Formation
Recent to Pleistocene		Alluvium
Carboniferous	Lower Coal Measures	Strata surrounding the Gnapiog (Garw) Coal Seam

The Neath Disturbance is conjectured to pass beneath the south of the site. Rocks in this region are shown to dip 35° to the northwest although this may vary locally.

Made ground is anticipated at the site.

2.3.2 BGS Borehole Information

There are no BGS Recorded Borehole records within the study site.

2.3.3 Radon

A British Geological Survey Radon Report identified that **Basic** Radon Protection is required at the site. The Radon Report is presented in **Annex B**.

2.3.4 Mining

A CON29M Report was purchased from the Coal Authority. The report recorded that the site is not within an area that could be affected by recorded past underground workings. There are no records of mine entries within the site or within 20m of the site.

The Geological Sheet Review revealed that the site locates close to the conjectured outcrop of the Gnapiog (Garw) Coal Seam. This seam is recorded as 'thin' and thus unlikely to have been worked. The Vertical Geological Section indicates only one other coal seam below the Gnapiog and this, too is described as 'thin'. In addition, the presence of the Neath Disturbance would likely preclude any mining activity.

The Coal Authority Report is appended in (**Annex C**).

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 secondary aquifer – A.

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 site does not locate within a groundwater source protection zone.

The nearest water abstraction point locates over 250m from the site.

2.4.2 Hydrology

The nearest surface water feature locates immediately west of the site, comprising a stream which formerly crossed the site and is now culverted.

2.4.3 Flooding

The Agency and Hydrological Map contained within the Envirocheck Report reveals that the south and centre of the site are vulnerable to Flooding (Zone 2) and Extreme Flooding (Zone 3) events.

The south of the site is shown to be vulnerable to Surface Water Flooding.

2.4.4 Waste

The Envirocheck Report does not record any landfill sites within 250m of the study site.

Potentially infilled land, relating to a stream shown on, and prior to the 1921 edition, is recorded immediately east of the site.

2.4.5 Pollution

7 No. pollution incidents are recorded to have occurred within 250m radius of the site. The nearest locating 116m NW of the site. The incidents are dated between 1991 and 1996.

2.4.6 Sensitive Land Use

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

2.4.7 Industrial Land Use

6 No. contemporary trade directory entries are recorded within 250m of the site. Contemporary trade directory entries recorded within proximity of the site are summarised in **Table 2.3**.

Table 2.3 Relevant Contemporary Trade Summary

Company	Distance/Direction from site	Classification	Status
Evans	169 (SW)	Meat Wholesale	Inactive
Happy Laundrette	174 (E)	Laundrette	Inactive
Esso	202 (SW)	Petrol Filling Station	Active
Pryse Printers	230 (SW)	Printers	Inactive
R A Lambert	242 (NE)	Coal Merchants	Inactive
Scarr Respays	248 (NE)	Car Body Repair	Inactive

2.4.8 Infilled Land

9 No. Potentially infilled land features locate within 250m of the site and are summarised in Table 2.4.

Table 2.4 Potentially Infilled Land

Feature	Distance/Direction from site
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	0m (SE)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	169m (S)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	176 (S)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	201 (S)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	212 (S)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	214 (SE)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	225 (SW)
Unknown Filled Ground (Pit, quarry etc)	246 (SE)
Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	247 (SW)

2.5 Ecology

During the original site walk over in 2010 the presence of Japanese Knotweed was noted.

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 Terra Firma (Wales) Ltd are not specialists in this field and the advice of an expert should be sought.

2.6 Archaeology

Please note that Terra Firma (Wales) Ltd are not specialists in this field and the advice of an expert should be sought.

SECTION 3 Coal Mining Risk Assessment

3.1 Underground Mining

A CON29M Report was purchased from the Coal Authority. The report recorded that the site is not within an area that could be affected by recorded past underground workings.

The Geological Sheet Review revealed that the site locates close to the conjectured outcrop of the Gnapiog (Garw) Coal Seam. This seam is recorded as 'thin' and thus unlikely to have been worked. The Vertical Geological Section indicates only one other coal seam below the Gnapiog and this, too is described as 'thin'. In addition, the presence of the Neath Disturbance would likely preclude any mining activity.

The Coal Authority Report is presented in **Annex C**.

3.2 Shafts & Adits

The Coal Authority Report states there are no known mine entries within 20m of the site.

3.3 Conclusion

The overall risk to the surface stability of the site from possible unrecorded workings is considered negligible.

SECTION 4 Preliminary Human Health and Environmental Risk Assessment

4.1 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 D** which includes our classifications of consequence and probability, and risk assessment matrix.

4.2 Potential Sources of Contamination

Potential or known sources of contamination associated the sites current and historical land use are summarised in **Table 4.1**.

Table 4.1 Contamination Sources

ID	Source	Contaminant
S1	Former Welfare Hall	Asbestos
S2	Former Welfare Hall and Adjacent Housing	PAH & Metals from discarded fire ash
S3	Shallow Impacted Groundwater	General
S4	Infilled Land	Soil Gas
S5	Mine Workings	Mine Gas
S6	Bedrock	Radon

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

4.3 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

4.4 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)

4.5 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 4.2**.

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.

Table 4.2 Preliminary Conceptual Site Model

Source	Pathway	Receptor	Preliminary Risk Assessment		
			Consequence	Probability	Risk
Human Health					
Contaminated Soils S1, S2	Direct soil and dust ingestion P1 Dermal contact P3 Inhalation of dust and vapours P4	Construction and maintenance workers R1	Medium	Low Likelihood	Medium Risk - COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required. Suitably designed site investigation recommended
		Passers-by or neighbouring site users R3	Medium	Unlikely	Low Risk - Dust suppression measures if required.
		Future site users (residents) R2	Medium	Low Likelihood	Medium Risk - Suitably designed site investigation recommended
Radon Gas S6	Horizontal and vertical migration of ground gasses and vapours P10	Future site users (residents) R2	-	-	Basic Radon protection measures required
Landfill Gas S4		Future site users (residents) R2, Construction and maintenance workers R1	Severe	Unlikely	Low Risk Soil Gas – Due to extent and age of potentially infilled land
Mine Gas S5					Negilible Risk Mine Gas – Due to Gnapiog being ‘thin’ and no significant coal seams beneath Gnapiog and no Record of mining beneath site. Site locates near valley floor so shallow groundwater expected.
Vapours S1, S2					
Impacted Groundwaters S1 S2 S3	Horizontal and vertical migration of contaminants (saturated zone) P6 Dermal contact P3	Construction and maintenance workers R1	Medium	Unlikely	Low Risk
Contaminated Soils S1, S2	Plant uptake P9 Consumption of home grown produce P2	Future site users (residents) R2	Medium	Unlikely	Low Risk
Contaminated Soils S1, S2	Direct Contact P11	Construction materials (water pipes) R7	Mild	Low Likelihood	Low Risk
Aggressive ground conditions - Sulphates S1, S2		Construction materials (concrete) R7			

Aquatic Environment					
Contaminated Soils S1, S2	Vertical migration of leachates (unsaturated zone) P5	Groundwater (aquifer) R4 Surface waters (river/lake) R5	Mild	Low Likelihood	Low Risk
	Surface run-off P8	Surface waters (river/lake) R5			
	Horizontal and vertical migration of contaminants (saturated zone) P6				

SECTION 5 Field Investigation

5.1 Site Works

On 21st October 2010 a geotechnical and geo-environmental site investigation comprising 6 No. Trial Pits was undertaken using a JCB 3CX. The investigation included chemical analysis of soils.

On 27th August 2020 a supplementary Window Sampler investigation was performed using a DANDO Tracked Drill Rig. The investigation included chemical analysis of soils.

The fieldwork was supervised by Terra Firma (Wales) 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 Terra Firma (Wales) Ltd in general accordance with BS 10175:2011+A2:2017 in order to assess the findings of the preliminary conceptual site model.

Trial Pit and Borehole Logs are presented in **Annex E**.

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

5.2 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 5.1**.

Table 5.1 Summary of Typical Ground Conditions

Depth (m)	Thickness (m)	Stratum
0.00 - 0.30/0.90	0.30/0.90	MADE GROUND: Typically soft, sandy gravelly SILT/CLAY to silty sandy GRAVEL to BOULDERS to limestone aggregate to sandy SILT , to sandy GRAVEL to COBBLE including brick and concrete (May be deeper locally)
0.30/0.90 - >2.00	-	SUPERFICIAL: Variable ranging from Firm to stiff sandy gravelly SILT/CLAY to medium dense to dense GRAVEL to BOULDERS

5.3 Groundwater

Groundwater was not encountered during the investigations

5.4 Stability and Obstructions

Windowless Sampler Boreholes refused at relatively shallow depth. This may be due to gravels/cobbles within the alluvial deposits.

5.5 Laboratory Chemical Testing

5.5.1 Sampling Strategy

Soil/Groundwater* sampling locations were selected on a non-targeted basis to characterise the contamination status of the site. An approximate grid sampling pattern was adopted.

Sample locations are summarised in **Table 5.2**:

Table 5.2 Sample Locations, Depths and Targets

Location	Depth (m)	Contamination Targets
TP01	0.50m	General suite
TP01	1.20m	General suite
TP02	0.10m	General suite
TP02	1.20m	General suite
TP03	0.40m	General suite
TP04	0.20m	General suite
TP05	0.30m	General suite
TP06	0.10m	General suite
WS01	0.10m	General suite
WS02	0.40m	General suite
WS03	0.40m	General suite
WS03	0.60m	General suite
WS04	0.30m	General suite
WS04	0.60m	General suite

5.5.2 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 following determinands.

Table 5.3 Soil Laboratory Analysis

Metals & Metalloids	In-Organics	Organics	Others
Arsenic	Cyanide	Phenols	pH (acidity)
Cadmium	Sulphate	PAH	Asbestos
Chromium III		Petroleum Hydrocarbons	
Chromium VI			
Copper			
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 F**.

5.6 Soil Property Testing

5.6.1 Laboratory Geotechnical Testing

During the 2010 investigation two samples of natural soil were despatched to the accredited laboratories of Geolabs. A summary of the testing carried out is presented in **Table 5.4**.

Table 5.4 Summary of Geotechnical Testing

Geotechnical Test	Standard (BS1377:1990)	No. Tested
Moisture Content	Part 2, Clause 3.2	2
4 Point Liquid and Plastic Limit	Part 2, Clause 4.3 & 5.3	2

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

SECTION 6 Evaluation of Geo-environmental Analytical Results

6.1 Assessment Methodology

Comparison of the analytical results has been made with the 2015 Suitable 4 Use Levels (S4UL) provided by Land Quality Management (LQM) Limited and the Chartered Institute of Environmental Health (CIEH) or provisional Category 4 Screening Levels (pC4SL). Where S4UL or C4SL values are not available, reference has been made to Soil Guideline Values (SGV) sourced from the now withdrawn Environment Agency Contaminated Land Exposure Assessment (CLEA).

Soil leachate and groundwater analytical results have been compared with available published guidelines in the Water Framework Directive (Standards and Classification) Directives (England and Wales) 2015 and Drinking Water Directive (98/83/EC).

Sulphate results have been compared to guidelines presented in British Research Establishment (BRE SD1:2015). Sulphate levels need only be considered for buried concrete risk assessment and are not human health related.

Soils subjected to a UK Water Industry Research (UKWIR) suite of testing have been compared with guidelines set out in UKWIR Guidance for the Selection of Water Supply Pipes to be Used in Brownfield Sites (Ref 10/WM/03/21).

6.2 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 E**.

6.2.1 Inorganics & Miscellaneous

Eight samples in 2010 and a further Six in 2020 were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in Table 6.1.

Table 6.1 Summary of Soil Chemical Test Results – Inorganics & Miscellaneous

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	37	LQM/CIEH	1.1	58	2 of 14
Cadmium	11	LQM/CIEH	<0.10	1.1	0 of 14
Chromium III	910	LQM/CIEH	<1.0	15	0 of 14
Chromium VI	6	LQM/CIEH	<0.1	0.24/<0.5	0 of 14
Copper	2400	LQM/CIEH	1.0	72	0 of 14
Lead	200	pC4SL	1.3	110	0 of 14
Mercury (inorganic)	40	LQM/CIEH	<0.05	0.23/<0.35	0 of 14
Nickel	180	LQM/CIEH	0.53	63	0 of 14
Selenium	250	LQM/CIEH	<0.20	1.2	0 of 14
Zinc	3700	LQM/CIEH	4.8	180	0 of 14
Cyanide	-	-	<0.5	<2.5	-
Boron	290	LQM/CIEH	<0.40	0.88	0 of 6
Sulphate (%)	0.24	BRE	<0.010	0.27	-
Organic Matter (%)	-	-	1.1	7.7	-
pH	-	-	7.5	9.9	-
Notes:					
- No available guideline					

6.2.2 Organics

Six samples from the 2020 investigation and six samples from the 2010 investigation were tested for speciated polycyclic aromatic hydrocarbons. The summarised results are in **Table 6.2**.

Table 6.2 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	2.3	LQM/CIEH	<0.1	19	1 of 12*
Acenaphthylene	170	LQM/CIEH	<0.1	0.26	0 of 12
Acenaphthene	210	LQM/CIEH	<0.1	5.1	0 of 12
Fluorene	170	LQM/CIEH	<0.1	2.6	0 of 12
Phenanthrene	95	LQM/CIEH	<0.1	58	0 of 12
Anthracene	2400	LQM/CIEH	<0.1	26	0 of 12
Fluoranthene	280	LQM/CIEH	<0.1	87	0 of 12
Pyrene	620	LQM/CIEH	<0.1	62	0 of 12
Benzo(a)anthracene	7.2	LQM/CIEH	<0.1	51	2 of 12
Chrysene	15	LQM/CIEH	<0.1	54	1 of 12
Benzo(b)fluoranthene	2.6	LQM/CIEH	<0.1	37	2 of 12
Benzo(k)fluoranthene	77	LQM/CIEH	<0.1	19	0 of 12
Benzo(a)pyrene	2.2	LQM/CIEH	<0.1	30	2 of 12
Indeno(123cd)pyrene	27	LQM/CIEH	<0.1	25	0 of 12
Dibenzo(ah)anthracene	0.24	LQM/CIEH	<0.1	3.7	3 of 12
Benzo(ghi)perylene	320	LQM/CIEH	<0.1	19	0 of 12
Total PAH	-	-	<0.10	<0.10	-
Notes:					
Thresholds based on 1.0% soil organic matter					
- * - Naphthalene hotspot removed after 2010 investigation.					

Six samples from the 2020 investigation and three samples from the 2010 investigation were tested for petroleum hydrocarbon. The summarised results are shown in **Table 6.3**.

Table 6.3 Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
PH C5 – C6 Ali	42	LQM/CIEH	<1.0	<1.0	0 of 6
PH C6 – C8 Ali	100	LQM/CIEH	<1.0	<2.7	0 of 9
PH C8 – C10 Ali	27	LQM/CIEH	<1.0	<2.7	0 of 9
PH C10 – C12 Ali	130	LQM/CIEH	<1.0	<1.3	0 of 9
PH C12 – C16 Ali	1100	LQM/CIEH	<1.0	<1.3	0 of 9
PH C16 – C21 Ali	65000*	LQM/CIEH	<1.0	4.0	0 of 9
PH C21 – C35 Ali	65000*	LQM/CIEH	<1.0	65	0 of 9
PH C35 – C44 Ali	65000	LQM/CIEH	<1.0	<1.0	0 of 6
Aromatic					
PH C5 – C7 Arom	70	LQM/CIEH	<1.0	<0.27	0 of 9
PH C7 – C8 Arom	130	LQM/CIEH	<1.0	<0.27	0 of 9
PH C8 – C10 Arom	34	LQM/CIEH	<1.0	<2.7	0 of 9
PH C10 – C12 Arom	74	LQM/CIEH	<1.0	<1.3	0 of 9
PH C12 – C16 Arom	140	LQM/CIEH	<1.0	<1.3	0 of 9
PH C16 – C21 Arom	260	LQM/CIEH	<1.0	12	0 of 9
PH C21 – C35 Arom	1100	LQM/CIEH	<1.0	190	0 of 9
PH C35 – C44 Arom	1100	LQM/CIEH	<1.0	<1.0	0 of 6
Notes: PH – Petroleum Hydrocarbon Ali – Aliphatic Arom – Aromatic Thresholds based on 1.0% soil organic matter * – Ali C16-21 and C21-C35 based on criteria for Ali EC >16-35					

Six samples from the 2020 investigation and eight samples from the 2010 investigation were tested for Phenols. The summarised results are in Table 6.4.

Table 6.4 Summary of Soil Chemical Test Results – Phenols

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Phenols	120	LQM/CIEH	<0.30	2.3	0 of 14

6.2.3 Asbestos Testing

Six samples from the 2020 investigation were scheduled for asbestos screening. Asbestos was not detected.

SECTION 7 Geotechnical Testing Results

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

7.1 Plasticity & Moisture Content Testing

During the investigation *three samples of the shallow clay material was taken and submitted for plasticity testing. The test results are summarised in **Table 7.1**.

Table 7.1 Plasticity & Moisture Content Test Results

Location	Depth (m)	Laboratory Principal Soil Type	Moisture Content (%)	Plasticity Index (%)	Passing 425µm Sieve (%)	Modified Plasticity Index (%)	Volume Change Potential
TP01	0.90	Cohesive	22	23	95	22	Medium
TP03	1.20	Cohesive	28	27	88	24	Medium

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 medium volume change potential.

If foundations are extended into granular deposits soil volume change will not be an issue.

SECTION 8 Quantitative Risk Assessment

8.1 Contaminants of Concern

Contaminants identified as part of the investigation are summarised in **Table 8.1**, along with an interpretation of the likely contamination source. Where applicable, the contaminant, source relationship is based on the inferences made in the preliminary conceptual site model.

Table 8.1 Contaminants of Concern

Location	Depth	Contaminant	Source
TP06	0.10m	Arsenic (58 mg/kg)	Made Ground
WS04	0.30m	Arsenic (40 mg/kg)	Made Ground
TP04	0.20m	Naphthalene (19 mg/kg)	Made Ground (Removed)
TP02	0.10m	Benzo(a)anthracene (7.3 mg/kg)	Made Ground
TP04	0.20m	Benzo(a)anthracene (51 mg/kg)	Made Ground (Removed)
TP04	0.20m	Chrysene (54 mg/kg)	Made Ground (Removed)
TP02	0.10m	Benzo(a)pyrene (7.8 mg/kg)	Made Ground
TP04	0.20m	Benzo(a)pyrene (30 mg/kg)	Made Ground (Removed)
WS03	0.40m	Dibenz(a,h)anthracene (0.39 mg/kg)	Made Ground
TP04	0.20m	Dibenz(a,h)anthracene (3.7 mg/kg)	Made Ground (Removed)
TP05	0.30m	Dibenz(a,h)anthracene (0.26 mg/kg)	Made Ground

The made ground containing elevated PAH at TP04 0.20m was excavated out for off-site disposal in June 2014. Following the removal of the Naphthalene, all remaining contaminants were non-volatile.

The historical map review did not identify a definitive source of Arsenic and PAH although the practice of spreading spent coal ash from domestic heating may account for these determinants.

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 8.2**. Identified pollutant linkages will require detailed risk assessment, appropriate mitigation or remedial measures.

Table 8.2 Refined Conceptual Site Model

Source	Pathway	Receptor
Contaminated Made Ground	Dermal Contact/Inhalation of Dust/Ingestion	Groundworkers
Contaminated Made Ground	Dermal Contact/Inhalation of Dust/Ingestion	Neighbouring Sites during Earthworks
Contaminated Made Ground	Dermal Contact/Inhalation of Dust/Ingestion/Plant Uptake	Future Site Occupiers/Visitors
Contaminated Made Ground	Leaching	Groundwater/Surface Water

8.3 Refined Illustrative Conceptual Site Model

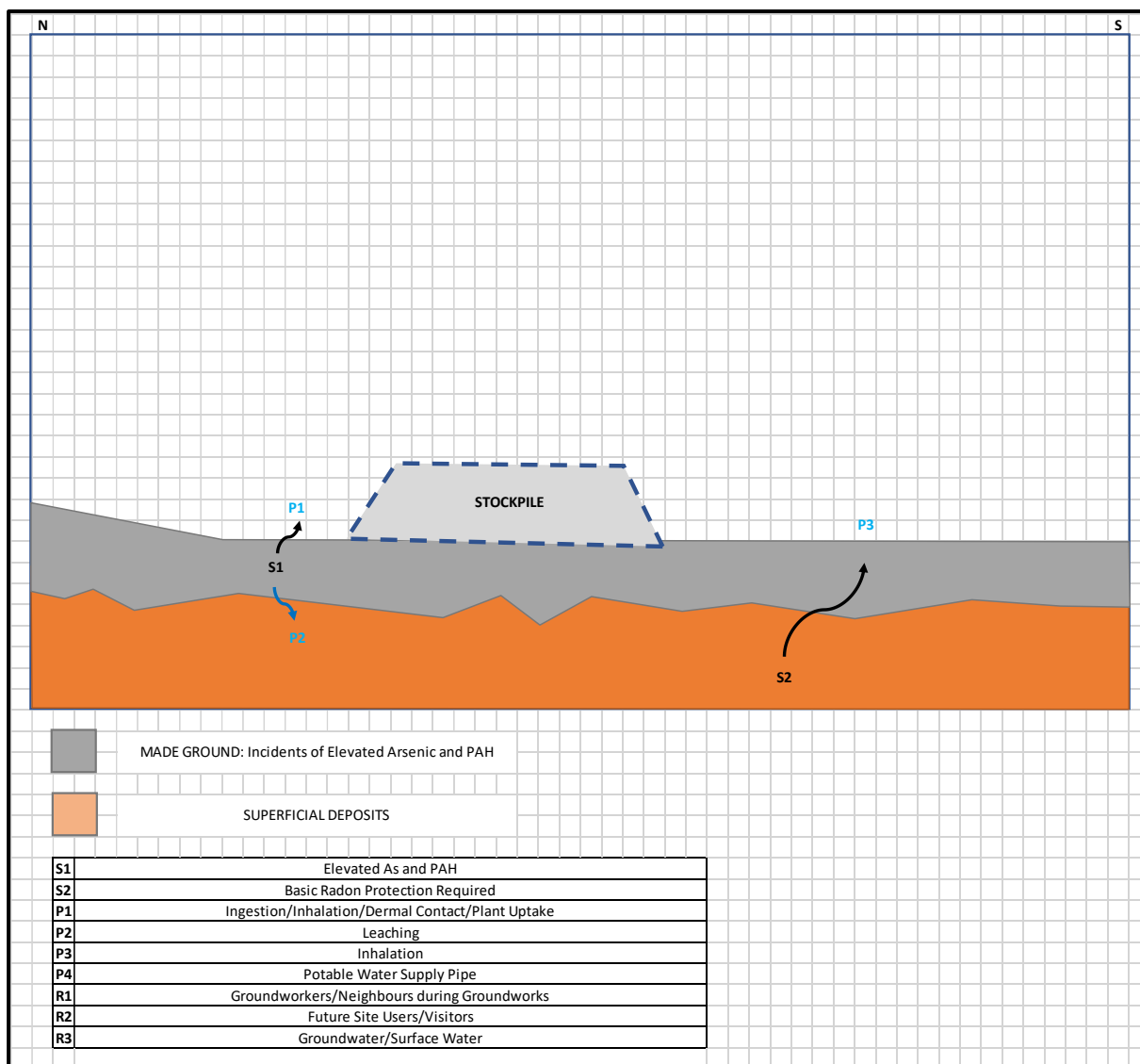


Figure 8.1 Refined Illustrative Conceptual Site Model

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 non-volatile contamination the site will need to be capped. The capping should consist of the proposed buildings and hard standings. In garden and soft landscaped areas the capping should consist of 600mm of suitable inert topsoil, and subsoil if desired.

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.

8.4.1.2 Ground Gas/Radon

To mitigate against the risk to future site users from radon gas, basic protection measures will be required in all structures. Reference should be made to guidance publication BR 211:2015 for further details on required protection elements. Verification of the installed protection measures is highly recommended. Terra Firma Wales Ltd. offer a comprehensive ground gas protection system verification service.

A significant source of Soil Gas or Mine Gas was not identified during the desk study.

8.4.2 Aquatic Environment

The recorded determinants were present at relatively low concentrations. In addition, the PAH Species that have been identified as of concern to Human Health are characterised by low aqueous solubility and a high propensity to bind to soil organic carbon and are thus of limited mobility on the aquatic environment.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving contaminated soil, drainage misconceptions, 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

Areas of vegetation including all roots should be stripped and removed from beneath the proposed development site. Areas affected by Japanese Knot Weed should be treated by a specialist contractor.

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. Terra Firma (Wales) Ltd offer this service if required.

9.2 Foundation and Floor Slab Solution

Made ground was encountered at shallow depth beneath the site. Due to the settlement characteristics of this material it is not a suitable founding strata. We would, therefore, recommend that the proposed buildings are founded upon the underlying competent River Alluvium.

The alluvium was seen to comprise slightly gravelly sandy silt/clay which passed from firm to stiff at shallow depth. We would therefore recommend the use of mass-concrete strip and/or trench fill foundations extending into the competent silt/clay to a depth at which it becomes stiff (typically 1.0m depth). Within this material foundation loads of 100 kN/m² should result in total settlements of less than 30mm with differential settlement less than 1:750. The proximity of trees needs to be considered when founding in the silt/clay horizon.

In the vicinity of Trial Pit 4 (2010) medium dense to dense gravels to boulders of rounded sandstone were encountered at shallow depth. Granular deposits were also encountered within several of the 2020 boreholes. These deposits will be suitable for founding mass concrete strip foundations although due to the presence of large clasts it is likely that over excavation may be necessary followed by placement of compacted hardcore or DoT Type 2 fill to compensate for the irregularity of the surface. Following this preparation mass concrete strip and trench fill foundations should be applicable with foundation loads of 100 kN/m², with expected total and differential settlements as previously quoted.

If a property is located upon the transition of the silt/clay and the gravel to boulder deposits account should be taken of the potential for differential settlement between the deposits. In such circumstances the mass concrete foundations should be additionally reinforced with steel and floor slabs designed as suspended. Following these precautions foundation loads of 100 kN/m² should result in the above stated settlement performances.

Floor slabs should be designed as suspended.

To escape the influences of thermal deterioration of the ground, foundations should, as a minimum, extend at least 900mm below the final surface.

All foundation formations should be inspected by a suitably qualified Engineer before being concreted.

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

Chemical testing revealed that total sulphate levels ranged from <100 mg/kg to 3,000 mg/kg in the samples tested and that pH ranged from 7.5 to 9.9. Since groundwater was absent in the trial pits groundwater is considered to be 'static'.

With reference to BRE Special Digest 1 (2005) we recommend that all buried concrete should, as a minimum, conform to ACEC Class AC-1s.

9.5 Access Roads and Car Parking Areas

For car parking and road areas, formations within the in-situ natural soils a CBR value of 3% may be used for design purposes. This should be verified by in-situ testing once formation is exposed

Allowances should be made for the removal of any 'soft spots/areas' and their replacement with well-compacted granular materials as previously described.

Please note that the Local Council / Highways Authority may require in-situ CBR testing to be undertaken before a road is adopted. In-situ CBR Testing should be performed following earthworks to verify the performance of the engineered fill.

9.6 Reuse of Site Won Material

A stockpile, containing mostly concrete breeze-blocks, was located in the centre of the site. This material was subject to preliminary chemical testing and asbestos screening (Samples S1 and S2, August 2020).

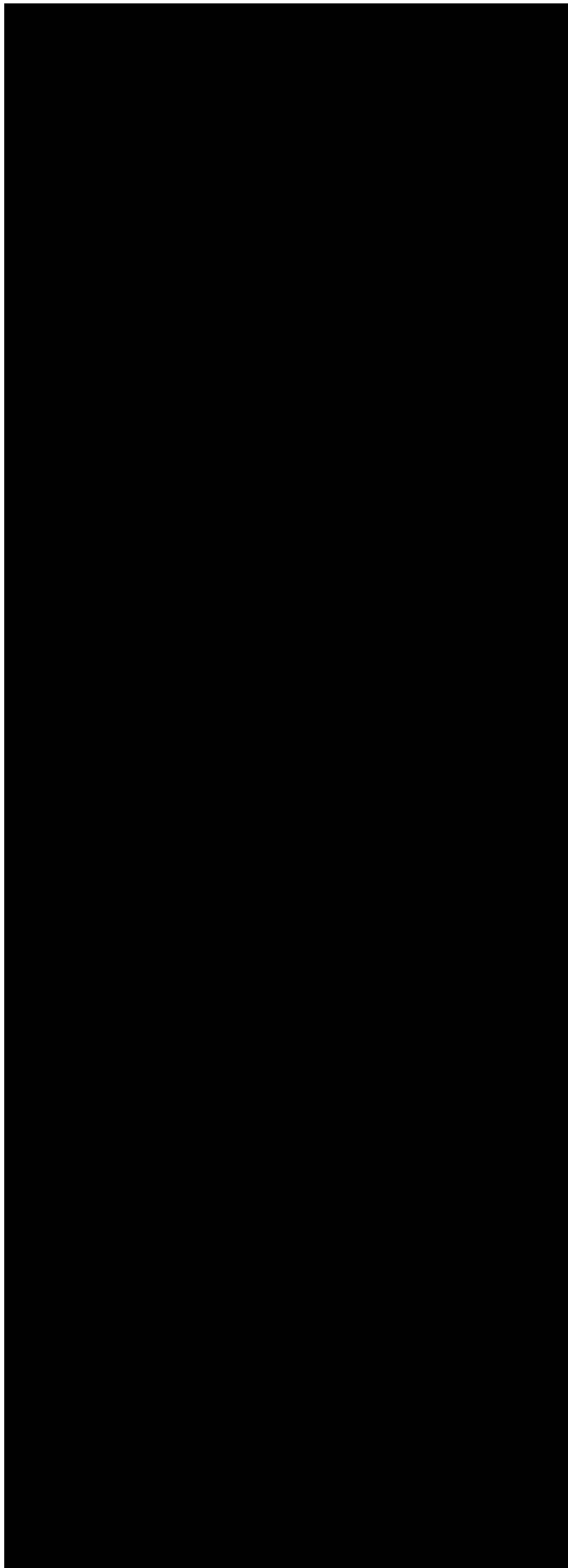
The testing did not detect asbestos or determinants in excess of the Generic Assessment Criteria for a residential setting with plant uptake.

If it is proposed to re-use the existing site won soils and stockpiles, this should be performed under an appropriate permit, exemption or using the CL:AIRE Definition of Waste: Development Industry Code of Practice (DoWCoP).

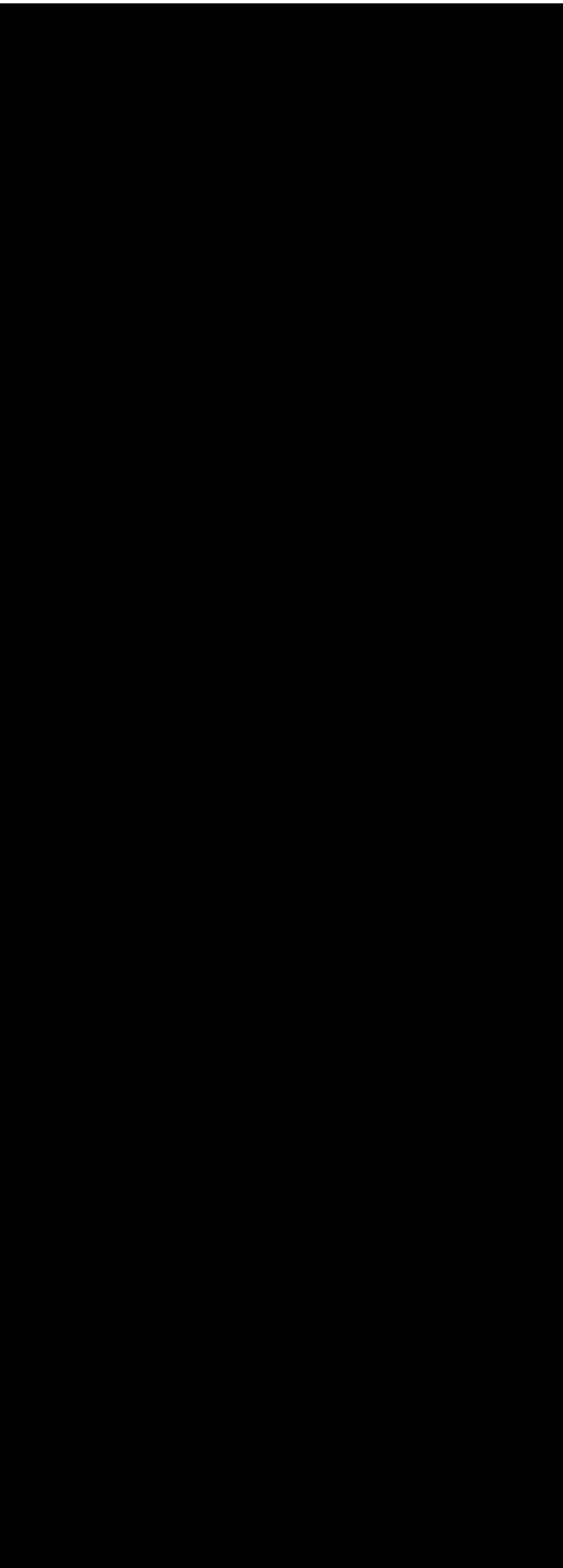
**ANNEX A
Envirocheck Report**

Historical Mapping Legends

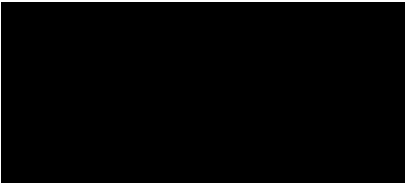
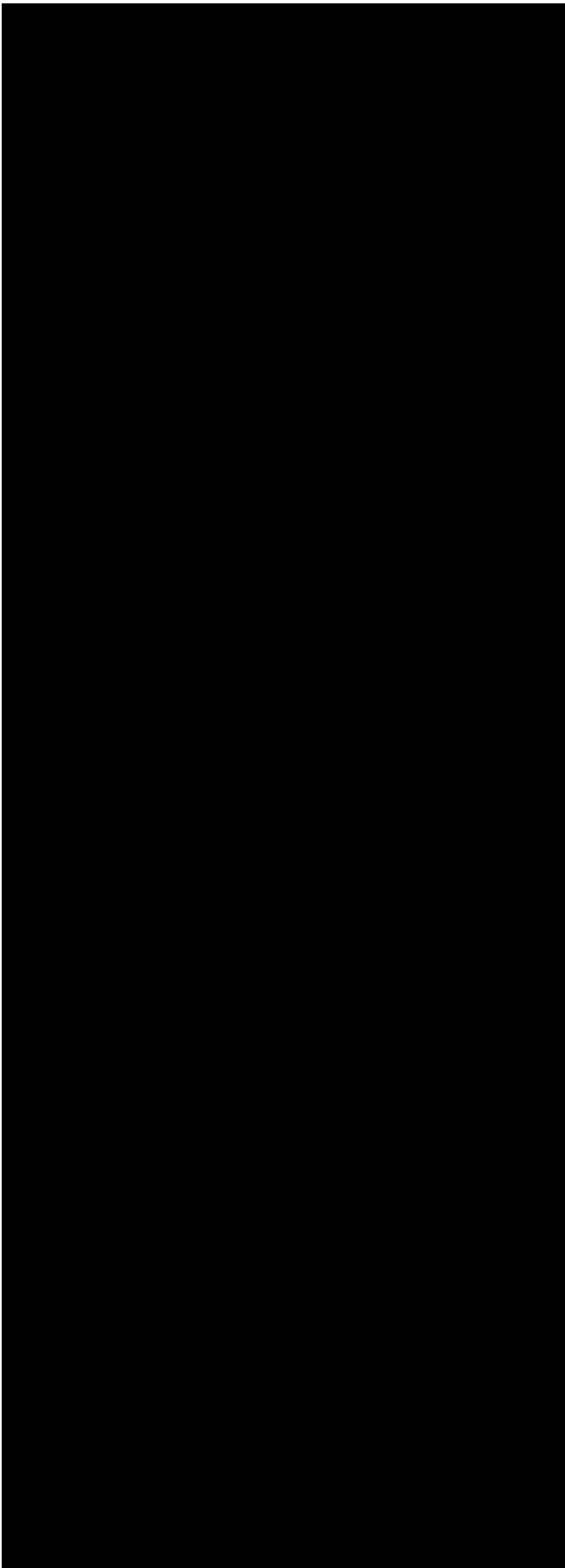
Ordnance Survey County Series and
Ordnance Survey Plan 1:2,500



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



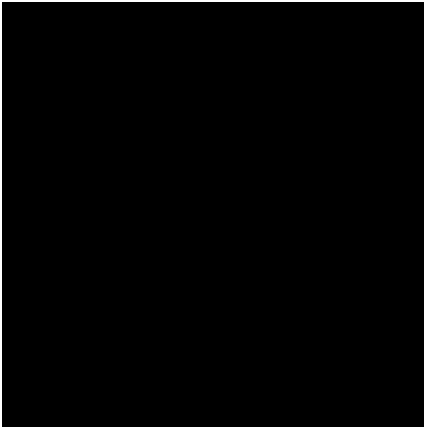
Large-Scale National Grid Data 1:2,500 and
1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876 - 1877	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1918 - 1919	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1972 - 1981	6
Additional SIMs	1:2,500	1977	7
Additional SIMs	1:2,500	1981	8
Ordnance Survey Plan	1:2,500	1984	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13
Large-Scale National Grid Data	1:2,500	1996	14
Historical Aerial Photography	1:2,500	2000	15

Historical Map - Segment A13



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



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



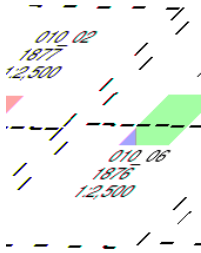
Glamorganshire

Published 1876 - 1877

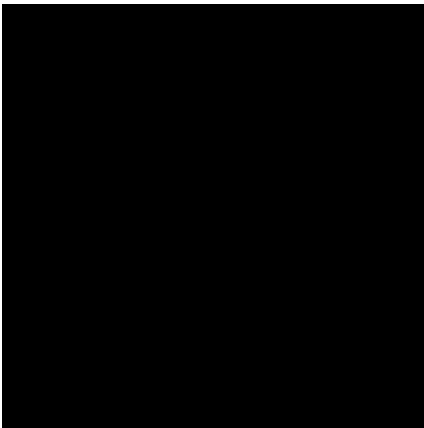
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



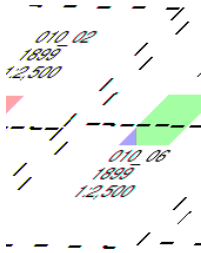
Glamorganshire

Published 1899

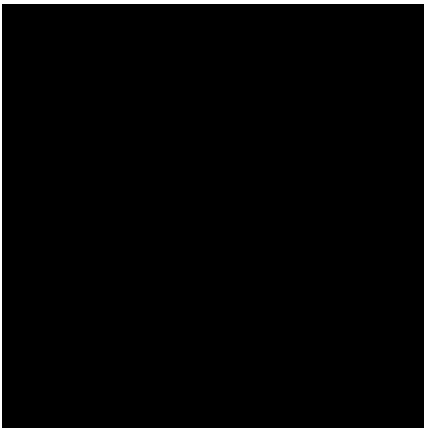
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



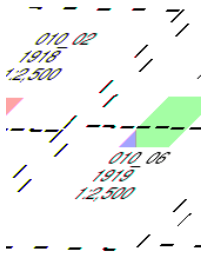
Glamorganshire

Published 1918 - 1919

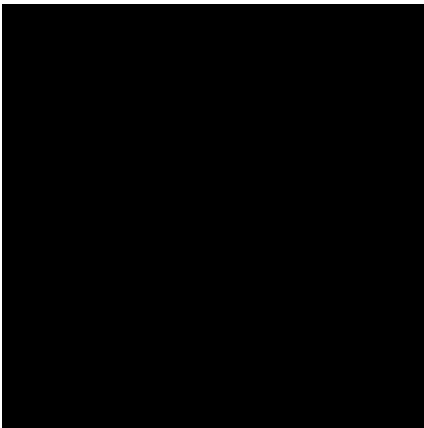
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



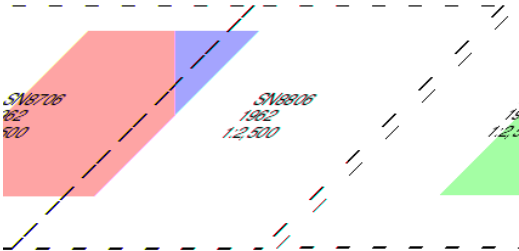
Ordnance Survey Plan

Published 1962

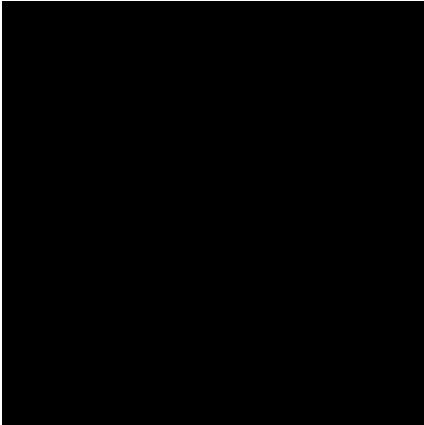
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

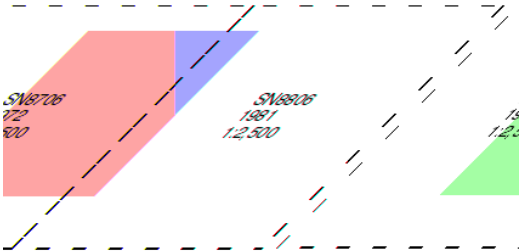
Site at 287770, 206560



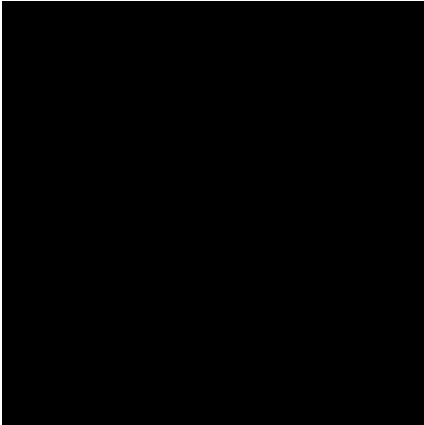
Ordnance Survey Plan
Published 1972 - 1981
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



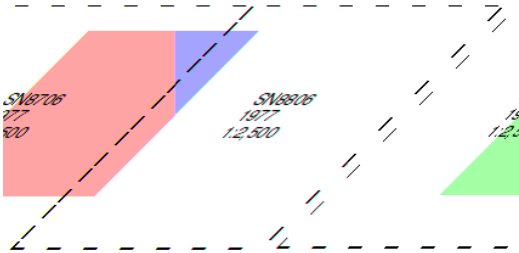
Additional SIMs

Published 1977

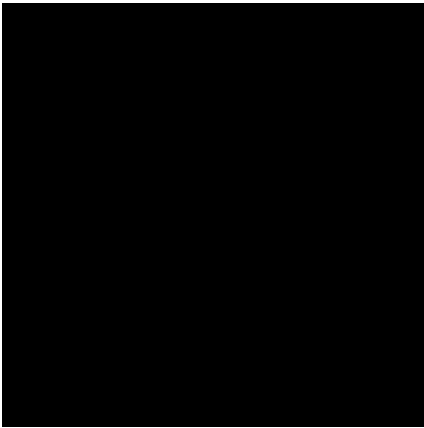
Source map scale - 1:2,500

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



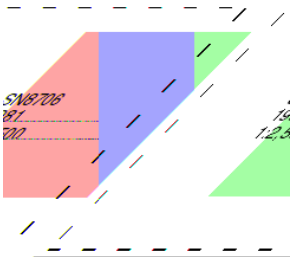
Additional SIMs

Published 1981

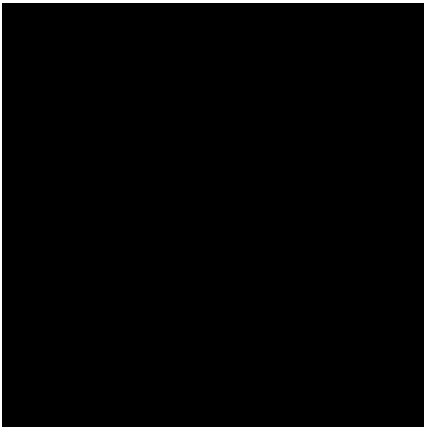
Source map scale - 1:2,500

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



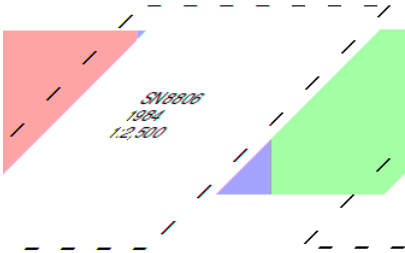
Ordnance Survey Plan

Published 1984

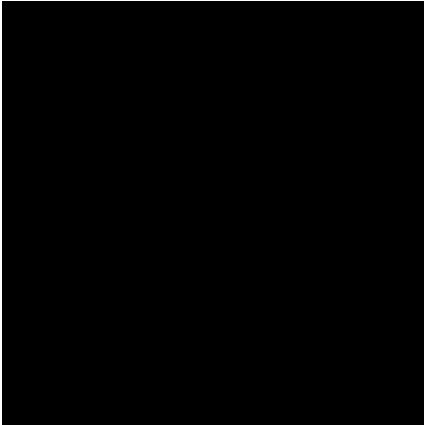
Source map scale - 1:2,500

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



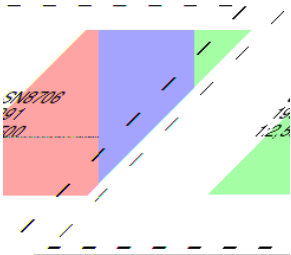
Additional SIMs

Published 1991

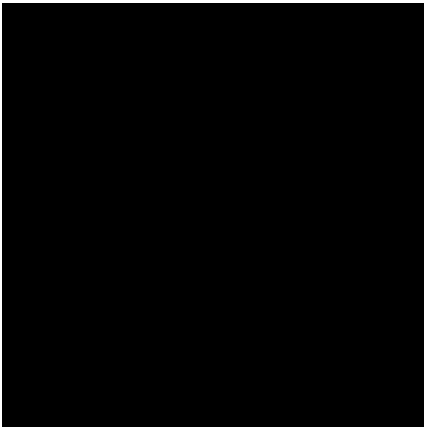
Source map scale - 1:2,500

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



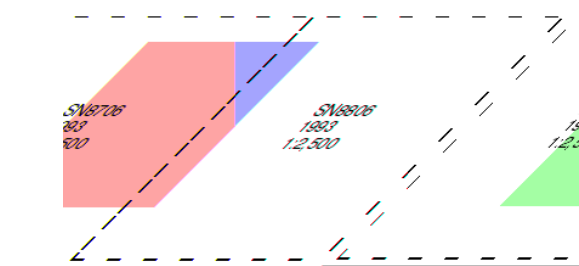
Large-Scale National Grid Data

Published 1993

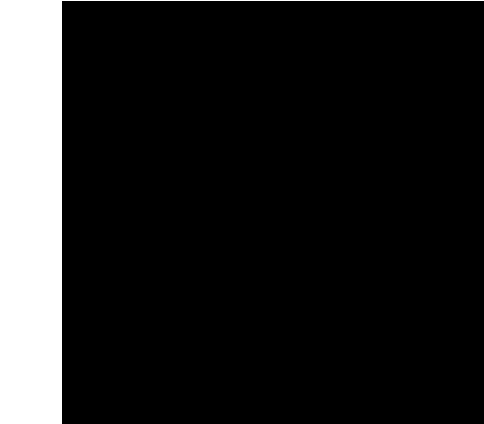
Source map scale - 1:2,500

'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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



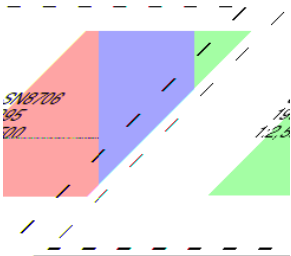
Large-Scale National Grid Data

Published 1995

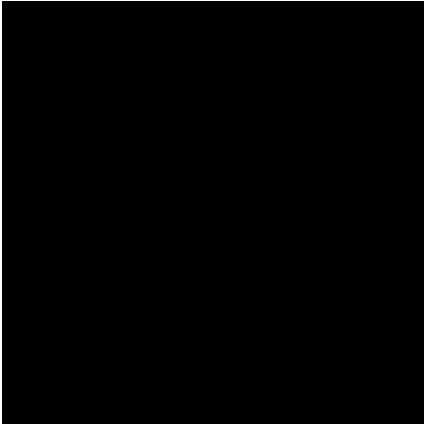
Source map scale - 1:2,500

'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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



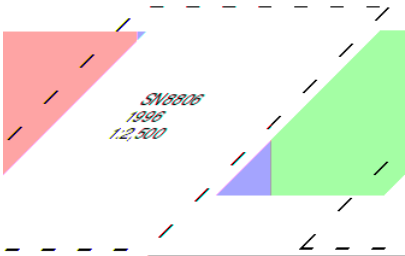
Large-Scale National Grid Data

Published 1996

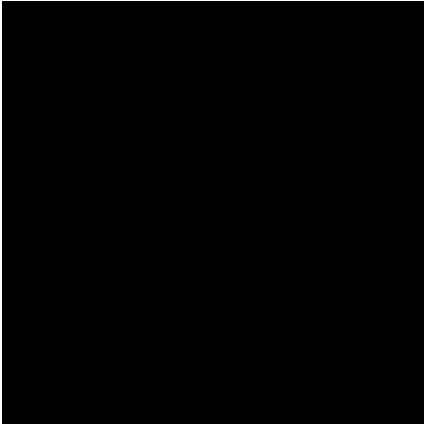
Source map scale - 1:2,500

'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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



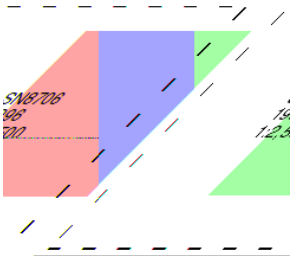
Large-Scale National Grid Data

Published 1996

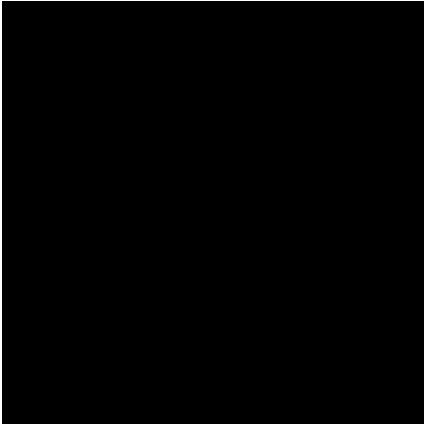
Source map scale - 1:2,500

'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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

Site at 287770, 206560



Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

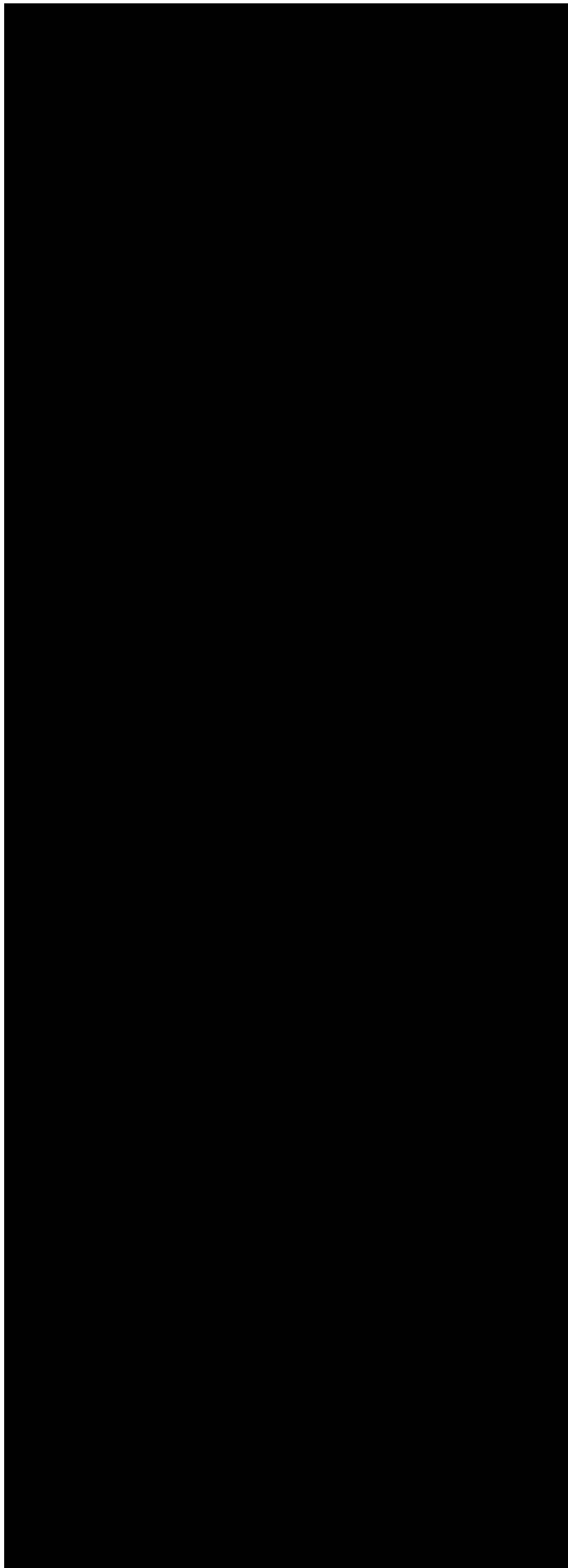
Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 100

Site Details

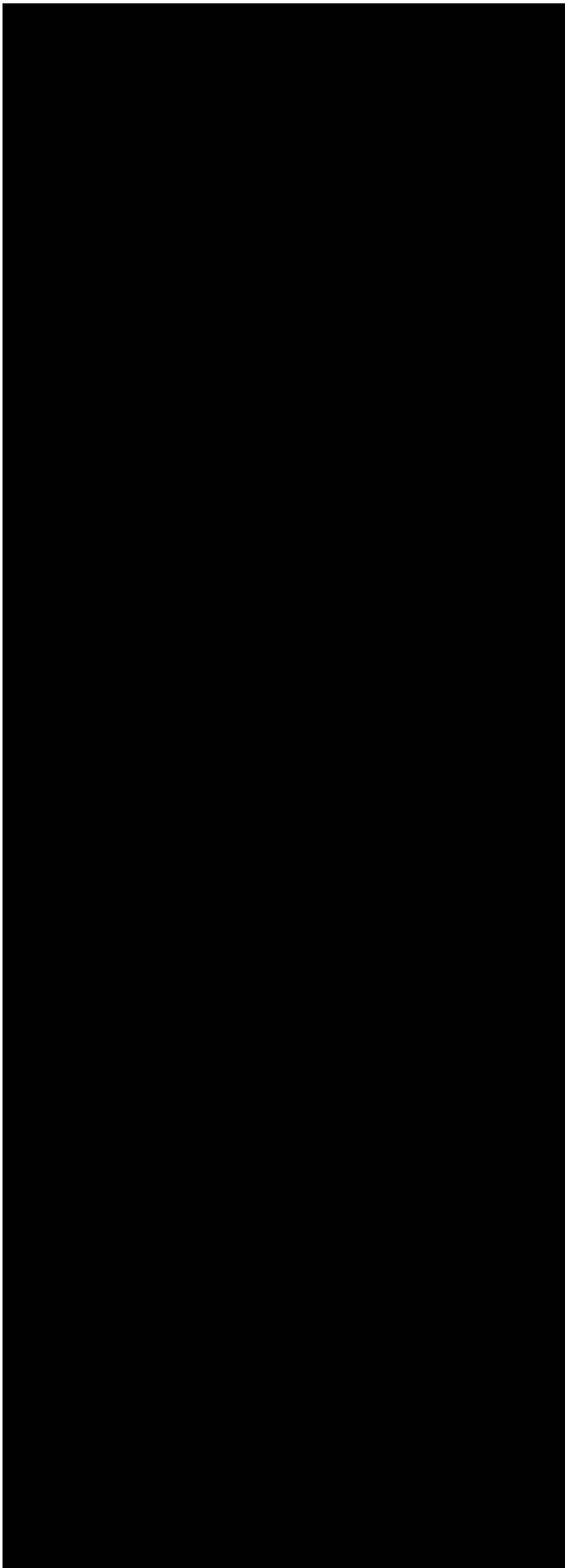
Site at 287770, 206560

Historical Mapping Legends

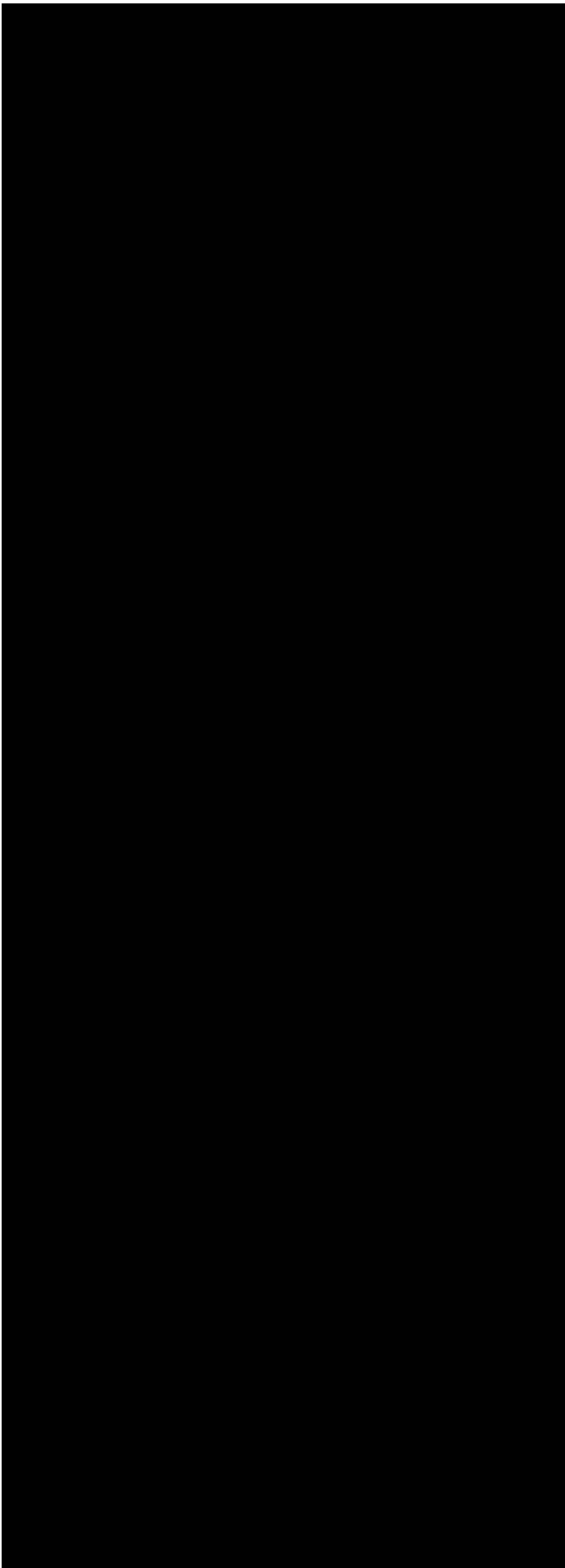
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



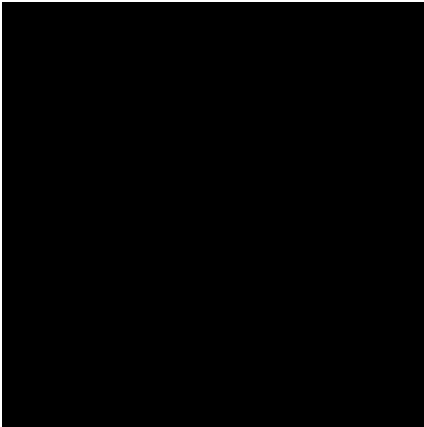
1:10,000 Raster Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	2
Brecknockshire	1:10,560	1888	3
Glamorganshire	1:10,560	1900	4
Brecknockshire	1:10,560	1905	5
Brecknockshire	1:10,560	1921	6
Glamorganshire	1:10,560	1921	7
Brecknockshire	1:10,560	1921	8
Glamorganshire	1:10,560	1938	9
Brecknockshire	1:10,560	1953	10
Glamorganshire	1:10,560	1953	11
Ordnance Survey Plan	1:10,000	1964	12
Ordnance Survey Plan	1:10,000	1980	13
Ordnance Survey Plan	1:10,000	1983	14
10K Raster Mapping	1:10,000	2000	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2020	17

Historical Map - Slice A



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



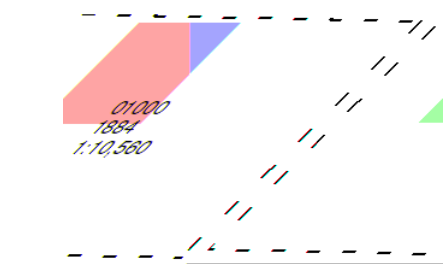
Glamorganshire

Published 1884

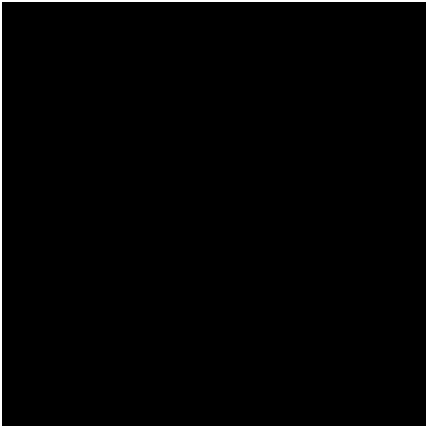
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



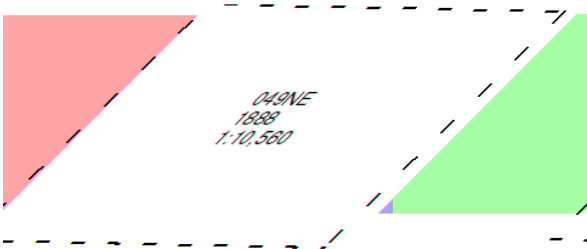
Brecknockshire

Published 1888

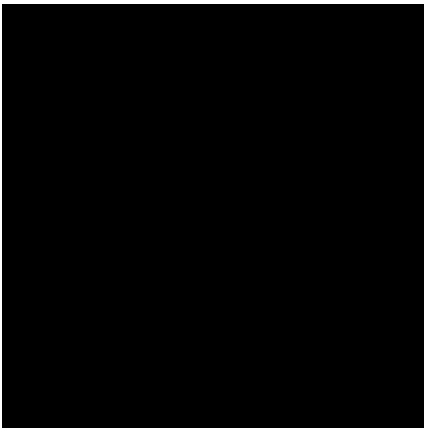
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



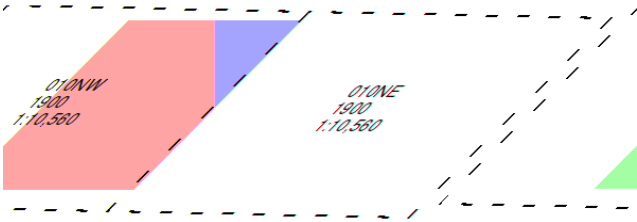
Glamorganshire

Published 1900

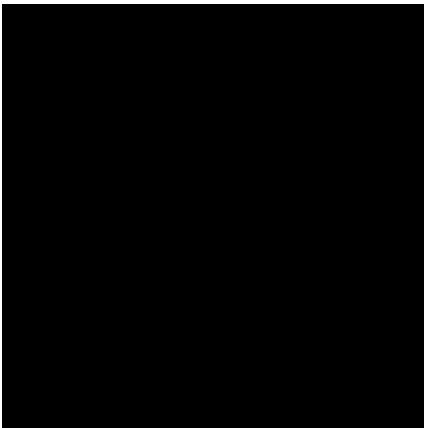
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



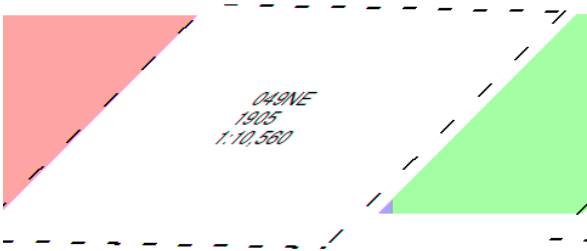
Brecknockshire

Published 1905

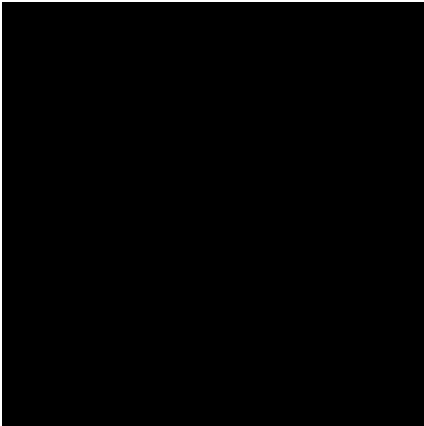
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



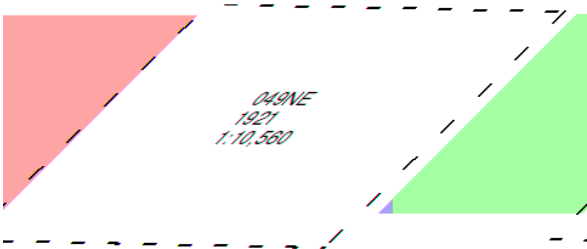
Brecknockshire

Published 1921

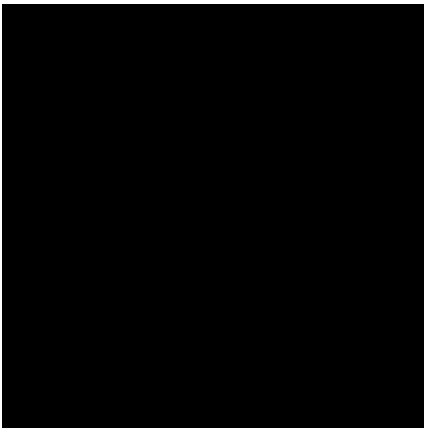
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



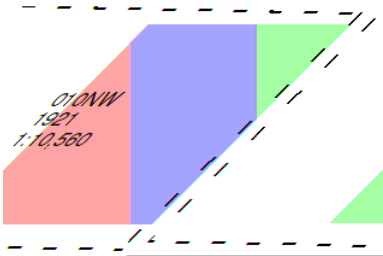
Glamorganshire

Published 1921

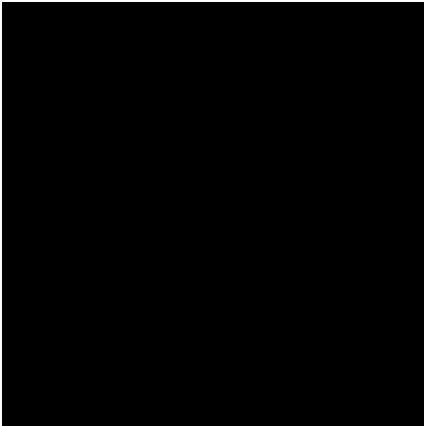
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



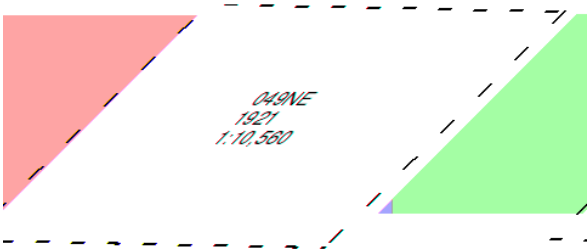
Brecknockshire

Published 1921

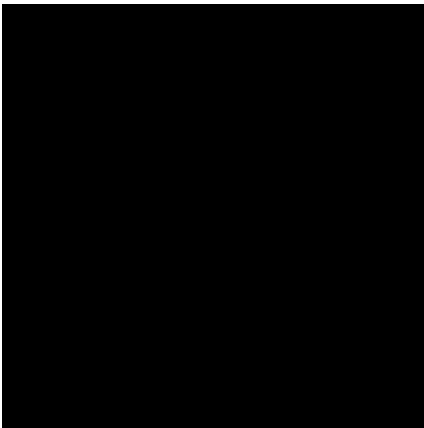
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



Glamorganshire

Published 1938

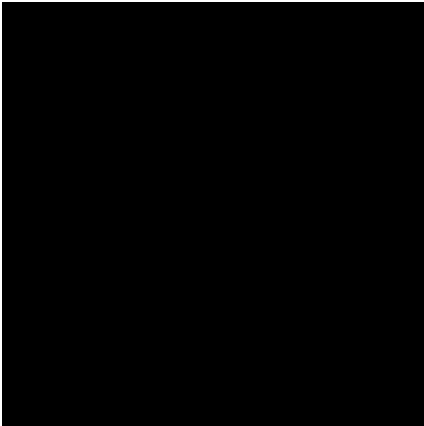
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



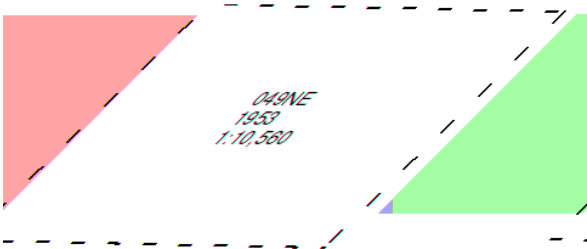
Brecknockshire

Published 1953

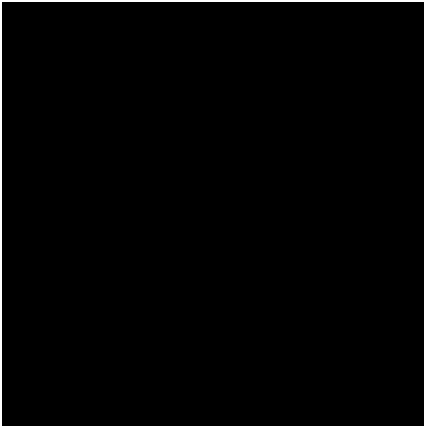
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



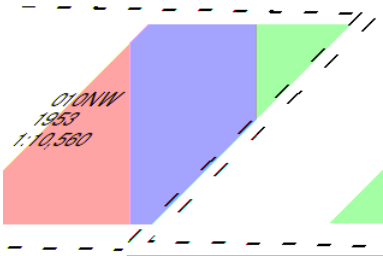
Glamorganshire

Published 1953

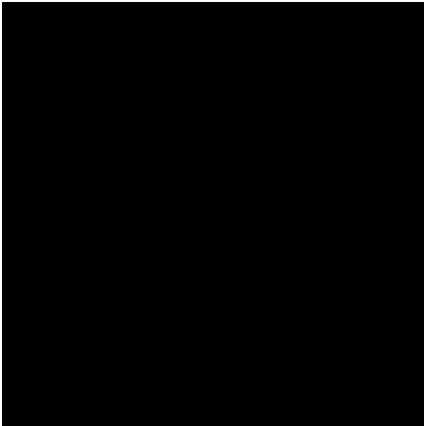
Source map scale - 1:10,560

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



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



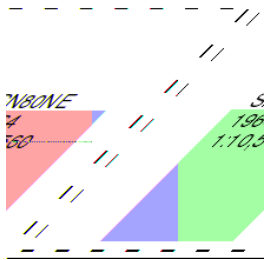
Ordnance Survey Plan

Published 1964

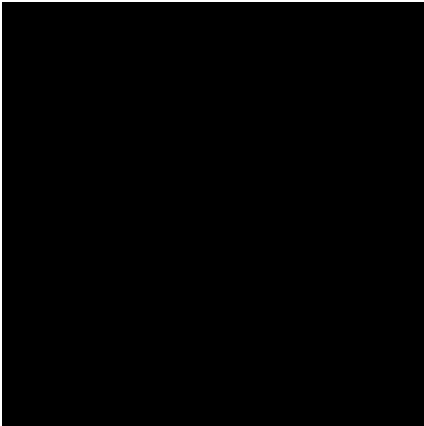
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



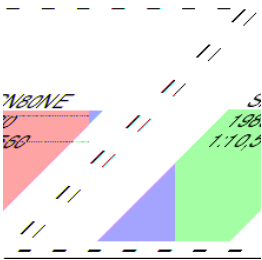
Ordnance Survey Plan

Published 1980

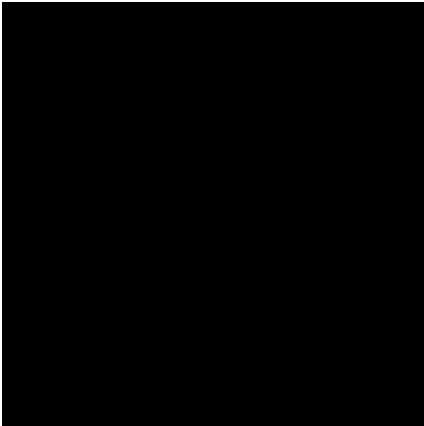
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



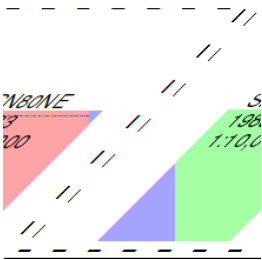
Ordnance Survey Plan

Published 1983

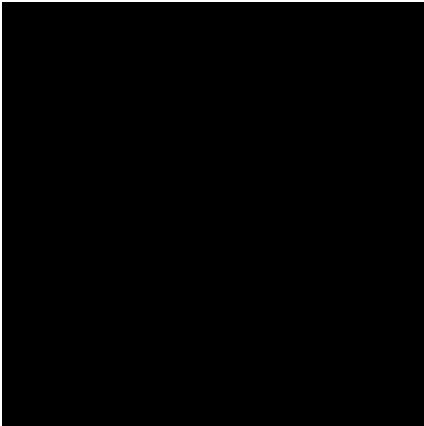
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



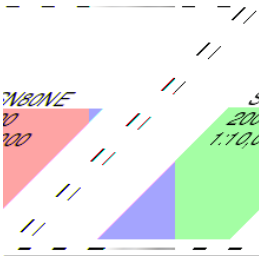
10k Raster Mapping

Published 2000

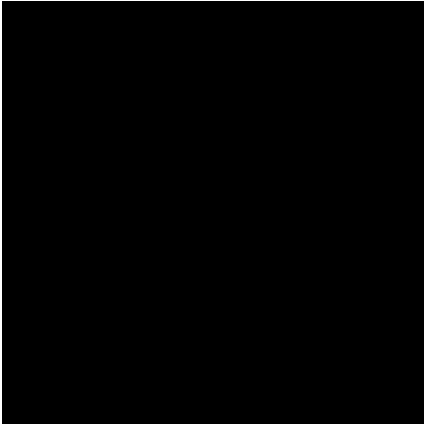
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



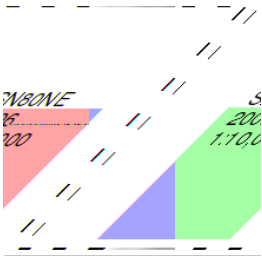
10k Raster Mapping

Published 2006

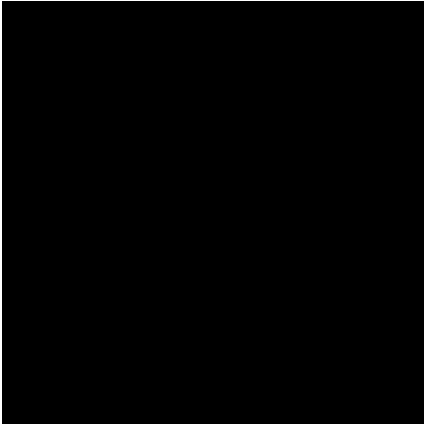
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



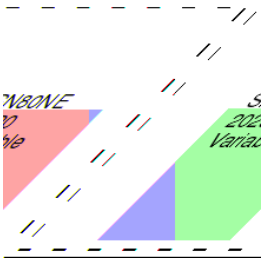
VectorMap Local

Published 2020

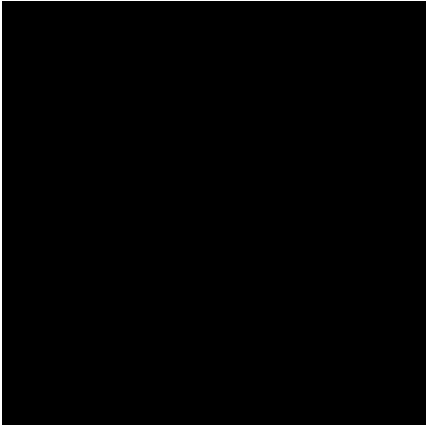
Source map scale - 1:10,000

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: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

254242348_1_1

Customer Reference:

15710 - 45

National Grid Reference:

287780, 206560

Slice:

A

Site Area (Ha):

0.92

Search Buffer (m):

1000

Site Details:

Site at 287770, 206560

Client Details:

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

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	48
Hazardous Substances	-
Geological	50
Industrial Land Use	59
Sensitive Land Use	66
Data Currency	69
Data Suppliers	75
Useful Contacts	76

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

Copyright Notice

© Landmark Information Group Limited 2020. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report. © Environment Agency & United Kingdom Research and Innovation 2020. © Natural Resources Wales & United Kingdom Research and Innovation 2020.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Scottish Natural Heritage Copyright

Contains SNH information licensed under the Open Government Licence v3.0.

Ove Arup Copyright Notice

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Stantec Copyright Notice

The cavity data presented has been extracted from the PBA (now Stantec UK Ltd) enhanced version of the original DEFRA national cavity databases. Stantec UK Ltd retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by Stantec UK Ltd. In no event shall Stantec UK Ltd or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Natural Resources Wales Copyright Notice

Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right. Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Some features of this information are based on digital spatial data licensed from the Centre for Ecology & Hydrology © NERC (CEH). Defra, Met Office and DARD Rivers Agency © Crown copyright. © Cranfield University. © James Hutton Institute. Contains OS data © Crown copyright and database right 2020. Land & Property Services © Crown copyright and database right.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		3	6	15
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 9		7	10	33
Prosecutions Relating to Authorised Processes	pg 18		1		
Registered Radioactive Substances					
River Quality	pg 18			1	1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 18			1	(*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 20	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 20	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 20	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 20	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 20	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 21		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 21	2	31	43	157

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 48				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 48				2
Local Authority Landfill Coverage	pg 48	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 48		1		7
Potentially Infilled Land (Water)	pg 49	1	7	1	5
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 50	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 50	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 53		1	3	15
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 57	Yes	n/a	n/a	n/a
Mining Instability	pg 57	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 57	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 57		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 57	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 57	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 57	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 58	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 59		11	4	10
Fuel Station Entries	pg 61		1		
Points of Interest - Commercial Services	pg 61		2	6	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 62			1	8
Points of Interest - Public Infrastructure	pg 63		6	7	5
Points of Interest - Recreational and Environmental	pg 64		1		6
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 66		2	13	26
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
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					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	287775 206550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (NE)	0	1	287775 206556
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	0	1	287750 206556
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	69	1	287900 206400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	72	1	287850 206600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	132	1	287700 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	140	1	287600 206750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	161	1	287850 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	173	1	287775 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	175	1	287600 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	180	1	287700 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	181	1	287950 206650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	181	1	287800 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	191	1	287800 206250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	195	1	287650 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	201	1	287900 206250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	202	1	287850 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	210	1	288000 206300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	211	1	287550 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	223	1	287775 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	238	1	287950 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	241	1	287850 206200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	243	1	287650 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	246	1	287550 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	249	1	288050 206300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	260	1	287600 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	266	1	287950 206200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	281	1	287500 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	282	1	288000 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	285	1	287550 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	291	1	287850 206150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	298	1	287900 206150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	321	1	287450 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	349	1	288050 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	352	1	287450 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	355	1	287500 206950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	362	1	287350 206650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	387	1	287450 206950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	388	1	288100 206150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	394	1	288100 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	396	1	287500 207000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	407	1	287950 206050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	414	1	288250 206350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	416	1	287600 206100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	418	1	287550 207050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	420	1	287300 206750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	428	1	288100 206100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	428	1	288250 206300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	433	1	287300 206800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	434	1	287650 206050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	441	1	287800 206000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	447	1	288200 206750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	447	1	288250 206250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	451	1	287300 206850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	453	1	288300 206500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	461	1	288150 206900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	484	1	287500 207100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	489	1	288050 206000
1	Discharge Consents Operator: Mr William Slocombe Property Type: Domestic Property (Single) Location: 1a Gellicaebyn Road Glyneath Neat, Glyneath, Neath Port Talbot Cbc, Sa11 5ed Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb4026601 Permit Version: 1 Effective Date: 17th June 1978 Issued Date: 17th June 1978 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Land/Soakaway Environment: Receiving Water: Underground Strata Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	20	2	287702 206682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Esso Petroleum Co Ltd Property Type: Not Supplied Location: Glynneath Express Service Station, Neath Road, Glynneath, West Glamorgan, Sa11 5ew Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0297501 Permit Version: 2 Effective Date: 26th November 2012 Issued Date: 26th November 2012 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	197	2	287580 206390
2	Discharge Consents Operator: Esso Petroleum Co Ltd Property Type: Production And Distribution Of Oil Location: Glynneath Express Service Station, Neath Road, Glynneath, West Glamorgan, Sa11 5ew Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0297501 Permit Version: 1 Effective Date: 25th March 2002 Issued Date: 25th March 2002 Revocation Date: 25th November 2012 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: To Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	197	2	287580 206390
3	Discharge Consents Operator: Mr Graham Morris Property Type: Domestic Property (Single) Location: Maes Y Berllan Abernant Hir Glynnea, Abernant, Glynneath, Sa11 5ru Authority: Natural Resources Wales Catchment Area: River Neath Reference: BM0045101 Permit Version: 1 Effective Date: 10th March 1986 Issued Date: 10th March 1986 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Into Land Environment: Receiving Water: To Land Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12NE (W)	318	2	287400 206600
4	Discharge Consents Operator: Cuddy P Sons Ltd Property Type: Undefined Or Other Location: Glynneath Office Building At 5a Mor, Office Building At 5a Morfa Gl Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0106201 Permit Version: 1 Effective Date: 3rd November 1988 Issued Date: 3rd November 1988 Revocation Date: 2nd November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tributary Of River Neath Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	347	2	287400 206400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo Rear Whitting St Glyn Authority: Natural Resources Wales Catchment Area: River Neath Reference: BW2903901 Permit Version: 1 Effective Date: 1st February 1956 Issued Date: 1st February 1956 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Neath Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	441	2	288270 206320
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Park Avenue Cso, Gellidawel Rd, Swansea, Swansea, Sa11 5dw Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0038901 Permit Version: 2 Effective Date: 24th September 2019 Issued Date: 24th September 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A14SW (E)	483	2	288330 206440
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo.Heathfield Avenue Glynneat Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: BP0038901 Permit Version: 1 Effective Date: 26th August 1987 Issued Date: 26th August 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 100m	A14SW (E)	483	2	288330 206440
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo.Heathfield Avenue Glynneat Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0038901 Permit Version: 1 Effective Date: 26th August 1987 Issued Date: 26th August 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A14SW (E)	483	2	288330 206440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: John Pearce Haulage Property Type: Undefined Or Other Location: Glyn Neath Willow Fields(Outlet Nor, Willow Fields(Outlet Northern Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0106001 Permit Version: 1 Effective Date: 3rd November 1988 Issued Date: 3rd November 1988 Revocation Date: 23rd February 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tributary Of River Neath Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	534	2	287300 206200
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso In Footpath Adj Bethel Rd, Glynneath, Neath Port Talbot, Sa11 5aw Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Wqd001597 Permit Version: 2 Effective Date: 10th October 2019 Issued Date: 10th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (E)	571	2	288402 206578
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso In Footpath Adj Bethel Rd, Bethel Road, Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Wqd001597 Permit Version: 1 Effective Date: 21st May 2008 Issued Date: 21st May 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (E)	571	2	288400 206586
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso In Footpath Adj Bethel Rd, Bethel Road, Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Wqd001597 Permit Version: 1 Effective Date: 21st May 2008 Issued Date: 21st May 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A14NW (E)	571	2	288400 206586

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso In Footpath Adj Bethel Rd, Bethel Road, Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: River Neath Reference: Npswqd001597 Permit Version: 1 Effective Date: 21st May 2008 Issued Date: 21st May 2008 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NW (E)	571	2	288400 206586
9	Discharge Consents Operator: Williams J Property Type: Undefined Or Other Location: Glyn Neath Lon-A-Nant Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0010801 Permit Version: 1 Effective Date: 13th February 1986 Issued Date: 13th February 1986 Revocation Date: 29th July 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	697	2	288300 207100
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Cso At Rear Godfrey Avenue Glynneath Npt, Rear Of Godfrey Lane, Glynneath, Sa11 5hf Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0319301 Permit Version: 3 Effective Date: 17th December 2019 Issued Date: 17th December 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	724	2	287385 205876
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Rear Godfrey Avenue Glynneath Npt, Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0319301 Permit Version: 2 Effective Date: 7th January 2008 Issued Date: 7th January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	724	2	287385 205876

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Rear Godfrey Avenue Glynneath Npt, Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0319301 Permit Version: 2 Effective Date: 7th January 2008 Issued Date: 7th January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Effective Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	724	2	287385 205876
11	Discharge Consents Operator: Handley W J Property Type: Domestic Property (Single) Location: Hendrewyddil Farm Pontwalby Glynnea, Pontwalby Glynneath. Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0109901 Permit Version: 1 Effective Date: 30th November 1988 Issued Date: 30th November 1988 Revocation Date: 1st June 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	738	2	288500 206100
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Rear Of Godfrey Avenue Glynneath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0319301 Permit Version: 1 Effective Date: 31st March 2008 Issued Date: 7th March 2005 Revocation Date: 6th January 2008 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Water Status: Consent without application (Water Resources Act 1991, Schedule 10) Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	754	2	287300 205900
13	Discharge Consents Operator: Jones R W Property Type: Undefined Or Other Location: 1 Fm Cottages Aberpergwm Glynneath. Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bm0019501 Permit Version: 1 Effective Date: 12th October 1981 Issued Date: 12th October 1981 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Underground Strata Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12NW (W)	934	2	286780 206600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Celtic Energy Ltd Property Type: Not Supplied Location: Selar Opencast Coal Site Area A - L, Area A - Lagoon Authority: Natural Resources Wales Catchment Area: NEATH - CONF WITH NEDD FECHAN AND MELLTE TO TL Reference: Bp0259401 Permit Version: 3 Effective Date: 23rd July 2010 Issued Date: 23rd July 2010 Revocation Date: Not Supplied Discharge Type: Minewater Discharge: Freshwater Stream/River Environment: Receiving Water: Nant Rhyd-Y-Gau, Trib Of River Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SW (S)	941	2	288140 205550
14	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Selar Opencast Coal Site Area A - L, Area A - Lagoon Authority: Natural Resources Wales Catchment Area: River Neath Reference: BP0259401 Permit Version: 2 Effective Date: 28th November 1997 Issued Date: 28th November 1997 Revocation Date: 22nd July 2010 Discharge Type: Minewater Discharge: Freshwater Stream/River Environment: Receiving Water: Nant Rhyd-Y-Gau, Trib Of River Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9SW (S)	941	2	288140 205550
14	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Selar Opencast Coal Site Area A - L, Area A - Lagoon Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0259401 Permit Version: 1 Effective Date: 29th March 1996 Issued Date: 29th March 1996 Revocation Date: 27th November 1997 Discharge Type: Minewater Discharge: Not Supplied Environment: Receiving Water: Nant Rhyd-Y-Gau, Trib Of River Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A9SW (S)	941	2	288140 205550
15	Local Authority Pollution Prevention and Controls Name: Tesco Stores Ltd Location: Neath Road, Glynneath, NEATH, West Glamorgan, SA11 5EW Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/101 Dated: 26th February 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A13SW (SW)	205	3	287597 206363
	Nearest Surface Water Feature	A13SW (S)	0	-	287774 206533
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Inadequate Design/Capacity Incident Date: 23rd July 1996 Incident Reference: 29519 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	116	4	287600 206695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath Rear, Of Hawarden Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Inadequate Design/Capacity Incident Date: 16th September 1996 Incident Reference: 30076 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	117	4	287600 206700
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 4th February 1995 Incident Reference: 22637 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	155	4	287900 206700
18	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: 200 M Down Stream Of, Langley Bridge Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 25th April 1991 Incident Reference: 202 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	210	4	288000 206300
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: 200 M Down Stream Of, Langley Bridge, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 17th March 1992 Incident Reference: 3906 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	214	4	288000 206295
19	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Lamb And Flag, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 19th December 1991 Incident Reference: 1739 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	241	4	287850 206200
19	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Washery Effluent Note: Blocked Sewer Incident Date: 8th April 1991 Incident Reference: 121 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	249	4	287900 206200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Tip Leachate Note: Not Supplied Incident Date: 15th October 1994 Incident Reference: 21574 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	257	4	287500 206400
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath, Langley Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: River Neath; Direct Introduction Incident Date: 14th August 1997 Incident Reference: 33222 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Deliberate Act Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	278	4	287700 206200
22	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Glynneath Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 19th March 1992 Incident Reference: 3993 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	381	4	288200 206300
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Crude Sewage Overflow 50M Downstream, Glyn Neath Traffic Lights Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 25th September 1997 Incident Reference: 33992 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	456	4	288300 206495
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 50 Metres Below, Glynneath Traffic Lights Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 3rd July 1997 Incident Reference: 32912 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	456	4	288300 206500
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Crude Sewage Overflow In Glynneath, 50M Downstream Traffic Lights Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 25th September 1997 Incident Reference: 33992 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	461	4	288305 206495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Generally From, Opencast Sites In, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Weather Incident Date: 12th May 1997 Incident Reference: 32282 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	470	4	288000 206000
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: CWMGWWRACH Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Weather Incident Date: 12th May 1997 Incident Reference: 32282 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	475	4	288000 205995
25	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Langley Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Blocked Sewer Incident Date: 5th May 1991 Incident Reference: 698 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	475	4	288300 206300
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 100 Metres Downstream Of, Glynneath Trading Estate Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Blocked Sewer Incident Date: 18th September 1996 Incident Reference: 29981 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	479	4	288300 206600
27	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Glynneath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th September 1991 Incident Reference: 1468 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	555	4	288400 206495
27	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: 100 Meters Down Stream Of, Traffic Light, Rock Pool Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 12th June 1992 Incident Reference: 4797 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	556	4	288400 206500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath Crude Sewage Overflow Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 5th February 1998 Incident Reference: 34706 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	560	4	288405 206495
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath Crude Sewage Overflow Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 30th April 1998 Incident Reference: 35558 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	561	4	288405 206500
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Crude Sewage Overflow At Glynneath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 19th August 1997 Incident Reference: 33258 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	561	4	288405 206505
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath Crude Sewage Overflow, 100M Downstream, Glynneath Traffic Lights Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Neath; Overflow Incident Date: 23rd February 1998 Incident Reference: 34833 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	573	4	288400 206595
28	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Cso Opposite, Halfway Public House And, Opposite Royal Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 16th May 1995 Incident Reference: 23954 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	574	4	288400 206600
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 100 Metres Downstream Of, Glynneath Traffic Lights Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 12th September 1996 Incident Reference: 29875 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	609	4	288400 206700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: In Garden Of 12 Lon Y Nant Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28797 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	624	4	288350 206845
30	Pollution Incidents to Controlled Waters Property Type: Coal Location: Lon Y Nant Authority: Environment Agency, Welsh Region Pollutant: Polyelectrolyte/Flocculent Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28797 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	627	4	288350 206850
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: In Garden Of 12 Lon Y Nant Authority: Environment Agency, Welsh Region Pollutant: Polyelectrolyte/Flocculent Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28797 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	629	4	288355 206845
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Behind Rugby Club At Glynneath, Brook Crosses, Glynneath Road Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management Incident Date: 14th March 1997 Incident Reference: 31660 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	648	4	288400 206795
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lon Y Nant, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 14th November 1996 Incident Reference: 30517 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	650	4	288400 206800
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Glynneath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 13th December 1991 Incident Reference: 1727 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	701	4	288500 206700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Opposite Community Centre Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 12th March 1995 Incident Reference: 23355 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	725	4	287500 205800
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: CLYNE Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 13th March 1995 Incident Reference: 23356 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	727	4	287505 205795
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Between, Resolven And, ABERDULAI Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Poor Operational Practise Incident Date: 12th March 1995 Incident Reference: 23355 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	729	4	287500 205795
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Lamb And Flag, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	769	4	287405 205805
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Pentre Street, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	772	4	287400 205805
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Cwmgwrach And, Rheola Down To, ABERDULAI Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	774	4	287405 205800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Glynneath Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	775	4	287395 205805
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Glynneath To, ABERDULAIS Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	776	4	287400 205800
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Between, Glynneath And, RESOLVEN Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	778	4	287405 205795
34	Pollution Incidents to Controlled Waters Property Type: Road Location: RESOLVEN Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	779	4	287395 205800
34	Pollution Incidents to Controlled Waters Property Type: Road Location: River, Cwmgwrach To, ABERDULAIS Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	780	4	287400 205795
34	Pollution Incidents to Controlled Waters Property Type: Road Location: Cwmgwrach Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 31st May 1995 Incident Reference: 24161 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	783	4	287395 205795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Near, Pontwalby Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 6th May 1995 Incident Reference: 24026 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	769	4	288600 206600
36	Pollution Incidents to Controlled Waters Property Type: Abandoned mine Location: Langey Bridge, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Neglect Incident Date: 2nd June 1992 Incident Reference: 4782 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	824	4	288200 205700
36	Pollution Incidents to Controlled Waters Property Type: Abandoned mine Location: Bridge Over Dual Carriageway Authority: Environment Agency, Welsh Region Pollutant: Rubbish Note: Not Supplied Incident Date: 3rd January 1991 Incident Reference: 2562 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	829	4	288200 205695
37	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Opposite Halfway House Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 10th May 1995 Incident Reference: 24207 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	889	4	288700 206695
37	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Opposite Halfway, Pub In, Glynneath Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 26th April 1995 Incident Reference: 23736 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	890	4	288700 206700
38	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Nant Y Gwyddl, Reserve, Glamorgan Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 17th May 1992 Incident Reference: 4620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	903	4	288400 207300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Pollution Incidents to Controlled Waters Property Type: Building Sites Location: Village Of, Glynneath, Brook Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Deliberate Act Incident Date: 27th September 1995 Incident Reference: 25977 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	953	4	288750 206750
40	Prosecutions Relating to Authorised Processes Location: 8 High Street, GLYN-NEATH, . Prosecution Text: Three Charges Involving Knowingly Permitting Waste To Be Deposited And Disposed Of On Land Without A Waste Management Licence, And One Charge Of Causing Black Smoke To Be Emited (Charged By Neath Port Talbot Council Under Caa84) Prosecution Act: Epa90 Hearing Date: 13th September 2000 Verdict: Guilty Fine: 650 Costs: 250 Positional Accuracy: Manually positioned to the address or location	A13SE (E)	133	4	287975 206481
	River Quality Name: Neath GQA Grade: River Quality B Reach: Cwmgwrach Stw Outlet-Conf.Nedd Fechan Estimated Distance (km): 4.9 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A8NE (S)	285	4	287882 206158
	River Quality Name: Neath Canal GQA Grade: River Quality B Reach: Abergarwed Weir - Glynneath Estimated Distance (km): 7.1 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A7NW (SW)	763	4	287091 206099
41	Water Abstractions Operator: Alfred Mcalpine Construction Ltd Licence Number: 21/58/72/0032 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: River Daily Rate (m3): 32 Yearly Rate (m3): 5500 Details: Inland Water Afon Nedd; Neath; West Glam. Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	264	4	288000 206230
	Water Abstractions Operator: Celtic Energy Ltd Licence Number: 21/58/72/0024 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Wash Unspecified Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 163 Yearly Rate (m3): 40914 Details: River Neath At Aberpergwm Washery; Glynneath Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1650	4	286320 205660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Energybuild Limited Licence Number: 21/58/72/0030 Permit Version: 104 Location: Tributary Of River Neath At Penstar Tip Authority: Natural Resources Wales Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1808	2	285990 206010
	Water Abstractions Operator: Energybuild Limited Licence Number: 21/58/72/0030 Permit Version: 103 Location: Tributary Of River Neath At Penstar Tip Authority: Environment Agency, Welsh Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1808	4	285990 206010
	Water Abstractions Operator: Anthracite Mining Limited Licence Number: 21/58/72/0030 Permit Version: 102 Location: Tributary Of River Neath At Penstar Tip Authority: Environment Agency, Welsh Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1808	4	285990 206010
	Water Abstractions Operator: Dragon Coal Corporation Ltd Licence Number: 21/58/72/0030 Permit Version: 101 Location: Tributary Of River Neath At Penstar Tip Authority: Environment Agency, Welsh Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1808	4	285990 206010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Energybuild Limited Licence Number: 21/58/72/0030 Permit Version: Not Supplied Location: Aberpergwm Colliery, Engine Cottage Site Authority: Natural Resources Wales Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1808	2	285990 206010
	Water Abstractions Operator: Consolidated Coal Plc Licence Number: 21/58/72/0030 Permit Version: 100 Location: Tributary Of River Neath At Penstar Tip Authority: Environment Agency, Welsh Region Abstraction: Extractive: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tributary Of River Neath At Penstar Tip; Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1837	4	285960 206010
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13SW (NE)	0	2	287775 206556
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	2	287775 206556
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	2	287775 206556
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NE)	0	2	287775 206556
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	166	2	287872 206279
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	172	2	287553 206592
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (NE)	0	2	287775 206556

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	176	2	287991 206556
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	196	2	287643 206345
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	202	2	287636 206342
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (S)	236	2	287849 206203
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13SE (S)	61	2	287807 206378
	Flood Water Storage Areas None				
	Flood Defences None				
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 261.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	0	5	287786 206547
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (S)	0	5	287774 206533
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	47	5	287722 206718
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	48	5	287653 206673
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	49	5	287685 206706
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	55	5	287760 206730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	60	5	287671 206497
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	68	5	287762 206743
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	74	5	287659 206489
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	82	5	287766 206756
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	98	5	287771 206772
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	101	5	287772 206775
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	108	5	287610 206627
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	121	5	287614 206476
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 384.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (S)	124	5	287831 206312

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 130.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (N)	130	5	287797 206797
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (W)	133	5	287586 206619
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (W)	134	5	287585 206527
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (W)	134	5	287586 206619
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	134	5	287580 206641
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	134	5	287579 206647
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (W)	136	5	287585 206524
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	136	5	287599 206473
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (W)	136	5	287589 206505

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	145	5	287578 206723
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	145	5	287577 206717
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	145	5	287578 206723
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 252.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	147	5	287587 206471
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 634.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	173	5	287563 206754
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	203	5	287942 206734
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	211	5	287945 206749
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	211	5	287945 206749
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 345.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	220	5	287498 206717

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	255	5	287976 206789
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	255	5	287976 206789
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A8NE (S)	255	5	287856 206185
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A8NE (S)	257	5	287853 206185
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8NE (S)	257	5	287853 206185
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (N)	258	5	287874 206901
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	261	5	288006 206238
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	286	5	287606 206263
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	301	5	288012 206819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	305	5	288015 206823
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	315	5	287968 206900
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	315	5	287968 206900
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 514.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SW (N)	322	5	287606 206969
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 303.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SW (N)	322	5	287606 206969
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8NE (S)	329	5	287894 206117
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	344	5	287990 206921
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	347	5	287991 206923
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	352	5	287360 206633

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	354	5	288046 206866
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A9NW (SE)	370	5	288139 206218
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	375	5	288060 206882
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (NW)	378	5	287346 206761
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 728.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (NW)	378	5	287346 206761
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8NE (S)	381	5	287936 206072
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	388	5	287392 206326
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A8NW (S)	390	5	287691 206079
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	390	5	287691 206079

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	404	5	287378 206318
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18SE (N)	414	5	287864 207074
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 258.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	426	5	287765 206021
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 224.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A8NW (S)	434	5	287655 206047
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	434	5	287655 206047
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 364.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	444	5	287276 206749
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SW (SE)	459	5	288260 206242
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A14SW (E)	459	5	288316 206369
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	467	5	287242 206581

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	470	5	287698 205993
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	478	5	287705 205982
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 308.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A14SW (E)	479	5	288329 206413
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	481	5	287240 206574
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	482	5	287711 205976
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 535.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	483	5	287229 206673
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	495	5	287299 206272
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SW (N)	501	5	287767 207177
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 359.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	502	5	288053 207075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	504	5	287291 206269
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	512	5	288194 206924
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SW (N)	513	5	287776 207189
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	517	5	288176 206967
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	518	5	287717 205938
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	524	5	287276 206253
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 305.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (N)	525	5	287782 207201
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (S)	525	5	287717 205930
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	542	5	287261 206244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NE (SE)	544	5	288043 205938
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8NE (SE)	544	5	288043 205938
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Eithin Catchment Name: Neath Primacy: 1	A8NE (SE)	550	5	288102 205957
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Eithin Catchment Name: Neath Primacy: 1	A9NW (SE)	554	5	288121 205963
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 493.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Eithin Catchment Name: Neath Primacy: 1	A9NW (SE)	555	5	288130 205967
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8NE (SE)	561	5	288065 205928
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SW (SE)	565	5	288383 206265
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 130.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SW (SE)	565	5	288383 206265
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	585	5	287132 206549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 261.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	590	5	287132 206546
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 300.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12NE (W)	592	5	287120 206682
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 236.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A14NW (NE)	620	5	288353 206829
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	633	5	288315 206956
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SE (S)	634	5	287823 205808
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A19SW (NE)	641	5	288327 206948
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8NW (SW)	641	5	287481 205908
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SE (S)	641	5	287828 205800
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 371.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A8NW (SW)	641	5	287481 205908

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	660	5	287524 205861
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A14NW (E)	661	5	288447 206726
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	661	5	288459 206695
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A14NE (E)	664	5	288464 206692
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A14NE (E)	664	5	288461 206697
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A14NE (E)	665	5	288484 206636
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A14NW (E)	671	5	288438 206768
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (E)	671	5	288438 206768
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	674	5	287551 205831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	678	5	287558 205824
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8SE (S)	679	5	288078 205806
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 208.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SE (S)	679	5	288078 205806
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	680	5	288457 206748
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SE (E)	681	5	288510 206287
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SE (E)	681	5	288510 206287
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NE (SW)	687	5	287142 206161
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 362.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	716	5	286996 206701
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 443.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	717	5	288190 207240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	720	5	288242 207206
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 319.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SE (E)	720	5	288539 206243
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	739	5	287635 205731
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	751	5	287001 206323
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	757	5	286998 206310
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 302.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (NW)	758	5	286988 206890
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	767	5	286968 206854
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 482.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-gau Catchment Name: Neath Primacy: 1	A8SE (S)	770	5	288054 205702
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SE (S)	770	5	288056 205703

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (SW)	770	5	287009 206238
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	771	5	287003 206252
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A19SW (NE)	772	5	288394 207097
177	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 268.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (NE)	775	5	288497 206889
178	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12NW (W)	781	5	286943 206807
179	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	781	5	286943 206807
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	785	5	286943 206825
181	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12NW (W)	792	5	286929 206785
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	797	5	287463 205738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SE (E)	798	5	288639 206342
184	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SE (E)	798	5	288639 206342
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	804	5	287446 205739
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	805	5	287475 205723
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	808	5	286928 206862
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 268.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (SW)	809	5	287022 206125
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	812	5	288287 207283
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 397.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	818	5	287074 207177
191	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SW (S)	818	5	288132 205678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SW (S)	822	5	288135 205674
193	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 238.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SE (E)	823	5	288654 206282
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SW (S)	827	5	288142 205672
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	834	5	288524 205958
196	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	834	5	288524 205958
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 548.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	836	5	287033 207157
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	840	5	287395 205728
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	843	5	287403 205720
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	846	5	286873 206777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SE (E)	858	5	288696 206320
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	859	5	287524 205642
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	860	5	286855 206750
204	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	861	5	287327 207435
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	861	5	287327 207435
206	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 300.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Gwyddyl Catchment Name: Neath Primacy: 1	A19NW (NE)	862	5	288404 207235
207	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A14SE (E)	865	5	288702 206309
208	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A9SE (SE)	867	5	288489 205862
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SE (SE)	867	5	288489 205862

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
210	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	871	5	286854 206812
211	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SE (SE)	871	5	288477 205843
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 413.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	872	5	287366 205708
213	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 151.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	875	5	286850 206818
214	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A14NE (E)	878	5	288684 206707
215	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	878	5	288684 206707
216	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	880	5	287141 207335
217	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	880	5	287141 207335
218	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	882	5	288687 206174

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	883	5	286837 206791
220	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	886	5	286846 206856
221	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (N)	904	5	287393 207511
222	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12NW (W)	904	5	286806 206577
223	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	904	5	286808 206648
224	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	906	5	287152 207377
225	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	906	5	287380 207507
226	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 513.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	916	5	287158 207395
227	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 345.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	916	5	287634 205548

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	919	5	286802 206540
229	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 415.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	921	5	287605 205550
230	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	925	5	286810 206379
231	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	925	5	286810 206378
232	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	926	5	286791 206761
233	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	926	5	286789 206743
234	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	926	5	286791 206761
235	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NW (NW)	931	5	287097 207363
236	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	934	5	286834 206240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	934	5	286834 206239
238	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	935	5	287298 205677
239	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 276.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Pergwm Catchment Name: Neath Primacy: 1	A12SW (W)	935	5	286835 206232
240	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	937	5	286812 206310
241	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	940	5	286772 206691
242	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	941	5	287295 205673
243	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A7SE (SW)	941	5	287131 205793
244	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	941	5	287131 205793
245	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	947	5	287154 205767

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant yr Eithin Catchment Name: Neath Primacy: 1	A9SW (SE)	951	5	288451 205711
247	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A17SW (W)	952	5	286796 206924
248	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (E)	955	5	288762 206168
249	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A9NE (E)	955	5	288762 206168
250	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A3NE (S)	956	5	287881 205486
251	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A3NE (S)	957	5	287885 205486
252	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A3NE (S)	957	5	288013 205500
253	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	961	5	287295 205638
254	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A3NE (S)	962	5	287874 205479

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
255	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A8SW (S)	964	5	287471 205549
256	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (W)	965	5	286788 206943
257	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gwrelych Catchment Name: Neath Primacy: 1	A14NE (E)	967	5	288784 206682
258	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	969	5	287295 205638
259	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	970	5	287291 205640
260	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A14NE (E)	970	5	288784 206694
261	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (W)	973	5	286779 206944
262	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	975	5	288769 206126
263	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Neath Primacy: 1	A9NE (SE)	975	5	288769 206126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
264	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	976	5	287268 205648
265	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11NE (W)	977	5	286735 206696
266	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 360.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11NE (W)	977	5	286735 206696
267	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	979	5	286751 206401
268	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.9 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Gwrelych Catchment Name: Neath Primacy: 1	A15NW (E)	984	5	288809 206653
269	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	984	5	286757 206336
270	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A16SE (W)	987	5	286765 206942
271	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	988	5	288772 206794
272	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	988	5	286753 206338

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
273	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	997	5	288778 206801
274	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	1000	5	286739 206345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	Historical Landfill Sites Licence Holder: Not Supplied Location: Blaengwrach, Port Talbot Name: Disused Tip and Quarry off Parish Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34830 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A7SE (S)	954	2	287388 205600
276	Licensed Waste Management Facilities (Locations) Licence Number: GB3493HZ Location: Land Off Heol Y Glyn, Glynneath, Glynneath, Neath, Neath Port Talbot, SA11 5BB Operator Name: Cuddy Demolition And Dismantling Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Use of waste in construction <50,000 tps Licence Status: Effective Issued: 9th August 2018 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	890	2	288587 206969
276	Licensed Waste Management Facilities (Locations) Licence Number: 900085 Location: Glynneath, Neath, SA11 5BB Operator Name: Cuddy Demolition And Dismantling Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Use of waste in construction <50,000 tps Licence Status: Issued Issued: 15th August 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	890	2	288587 206969
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	3	287775 206556
277	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A13SE (SE)	246	-	288045 206298
278	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A8SE (SE)	629	-	288070 205857
279	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A19NW (NE)	837	-	288181 207392
280	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A19NW (NE)	842	-	288345 207269
281	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A18NE (N)	856	-	288027 207485

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
282	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A8SW (S)	894	-	287736 205553
283	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A19NW (NE)	923	-	288224 207467
284	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A23SW (N)	924	-	287558 207581
285	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A13SE (SE)	0	-	287811 206522
286	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SE (S)	169	-	287845 206269
287	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SE (S)	176	-	287855 206266
288	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (S)	201	-	287769 206241
289	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	212	-	287534 206432
290	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SE (SE)	214	-	288014 206309
291	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SW (SW)	225	-	287535 206402
292	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SW (SW)	247	-	287589 206316
293	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8NE (S)	263	-	287815 206179
294	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A7NE (SW)	565	-	287300 206151
295	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SW (W)	649	-	287074 206491
296	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	656	-	288498 206362
297	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A14NE (E)	691	-	288462 206765
298	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (W)	898	-	286828 206825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SW (NE)	0	1	287775 206556
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SW (NE)	0	1	287775 206556
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	0	1	287760 206585
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (N)	2	1	287738 206676
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13NW (NW)	90	1	287623 206680
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	217	1	287945 206251
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	263	1	287894 206184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	266	1	287878 206178
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NE (NW)	358	1	287373 206792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	385	1	287642 206110
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	427	1	287918 206022
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NE (SE)	465	1	288035 206020
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NE (S)	467	1	287979 205996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	490	1	287625 206000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	669	1	288377 206900
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (E)	680	1	288439 206787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NW (NW)	737	1	287008 206883
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17NE (NW)	769	1	287285 207305
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NE (NW)	809	1	287296 207359

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	812	1	288555 206047
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	913	1	286804 206569
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14NE (E)	919	1	288708 206764
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	947	1	288729 206100
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A23SW (N)	982	1	287507 207629
299	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125185 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (N)	184	1	287722 206859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
300	BGS Recorded Mineral Sites Site Name: Aber-Nant Fach Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153723 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	317	1	287972 206900
301	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125192 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	393	1	287936 207021
302	BGS Recorded Mineral Sites Site Name: Aber-Nant Fach Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153721 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	499	1	288042 207079
303	BGS Recorded Mineral Sites Site Name: Aber-Nant Fach Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153722 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	524	1	288165 206992
304	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125188 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	551	1	287858 207216
305	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125198 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	604	1	288152 207124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
306	BGS Recorded Mineral Sites Site Name: Nant-Yr-Eithin Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125194 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	632	1	288076 205856
307	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125202 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	646	1	288293 207022
308	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125200 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	677	1	288215 207165
309	BGS Recorded Mineral Sites Site Name: Rock Colliery Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125182 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	697	1	287653 207367
310	BGS Recorded Mineral Sites Site Name: Rock Colliery Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125186 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	751	1	287726 207427
311	BGS Recorded Mineral Sites Site Name: Glyn-Melyn Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153720 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	752	1	288245 207240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
312	BGS Recorded Mineral Sites Site Name: Aber-Nant Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125204 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	762	1	288313 207187
313	BGS Recorded Mineral Sites Site Name: Rock Colliery Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125201 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	837	1	288222 207365
314	BGS Recorded Mineral Sites Site Name: Derlwyn Occs Location: Blaengwrach, Glynneath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 3035 Type: Opencast Status: Ceased Operator: Celtic Energy Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Unknown	A18NE (N)	861	1	288000 207500
315	BGS Recorded Mineral Sites Site Name: Blaen-Llanbi Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153718 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	966	1	288445 207344
316	BGS Recorded Mineral Sites Site Name: Blaen-Llanbi Location: Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 153717 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	971	1	288360 207430
317	BGS Recorded Mineral Sites Site Name: Blaengwrach Location: Blaengwrach, Glyn-Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125175 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A3NW (S)	1000	1	287456 205517

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas 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.	A13SW (NE)	0	6	287775 206556
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	-	287775 206556
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	217	1	287945 206251
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	2	1	287738 206676
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	2	1	287738 206676
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	287774 206660
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	5	1	287778 206680
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	70	1	287780 206746
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	211	1	287928 206250
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	2	1	287738 206676
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	287775 206526
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	287775 206556
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	287775 206526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
318	Contemporary Trade Directory Entries Name: Evans Location: 2, Whitefield Close, Glynneath, Neath, West Glamorgan, SA11 5DY Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	169	-	287569 206459
319	Contemporary Trade Directory Entries Name: Happy Launderette Glynneath Ltd Location: 16, High Street, Glynneath, Neath, West Glamorgan, SA11 5BU Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	174	-	288016 206485
320	Contemporary Trade Directory Entries Name: Esso Location: Tesco Neath Road, Glynneath, Neath, West Glamorgan, SA11 5EW Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	202	-	287605 206360
320	Contemporary Trade Directory Entries Name: Esso Location: Neath Road, Glynneath, Neath, West Glamorgan, SA11 5EW Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	205	-	287604 206357
320	Contemporary Trade Directory Entries Name: Glynneath Service Station Location: Glynneath, Neath, West Glamorgan, SA11 5EW Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	205	-	287597 206363
320	Contemporary Trade Directory Entries Name: Tesco Petrol Station Location: Tesco Express Supermarket, Park Avenue, Glynneath, SA11 5EW Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	205	-	287597 206363
320	Contemporary Trade Directory Entries Name: Tesco Express Location: Glynneath, Neath, West Glamorgan, SA11 5EW Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	205	-	287597 206363
321	Contemporary Trade Directory Entries Name: Pryse Printers Location: 34, High Street, Glynneath, Neath, West Glamorgan, SA11 5BU Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	230	-	288070 206502
322	Contemporary Trade Directory Entries Name: R A Lambert Coal Merchants Ltd Location: R A Lambert (Coal Merchants), Old Rock Sidings, Lancaster Close, Glynneath, SA11 5EF Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	242	-	287983 206726
322	Contemporary Trade Directory Entries Name: R A Lambert Coal Merchants Ltd Location: Glynneath, SA11 5EF Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	242	-	287983 206726
322	Contemporary Trade Directory Entries Name: Scarr Resprays Location: Lancaster Close, Glynneath, Neath, West Glamorgan, SA11 5EF Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	248	-	287993 206707

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
323	Contemporary Trade Directory Entries Name: Windsor Motors Location: Lancaster Close, Glynneath, Neath, SA11 5EF Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	310	-	288051 206733
324	Contemporary Trade Directory Entries Name: John Pearce Glynneath Ltd Location: 1, Wellfield Place, Glynneath, Neath, West Glamorgan, SA11 5ER Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	455	-	287372 206237
324	Contemporary Trade Directory Entries Name: John Pearce Glynneath Ltd Location: 1, Wellfield Place, Glynneath, Neath, West Glamorgan, SA11 5ER Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	455	-	287372 206237
325	Contemporary Trade Directory Entries Name: Nelson & Son (Glynneath) Ltd Location: Oddfellows Street, Glynneath, NEATH, West Glamorgan, SA11 5DB Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	467	-	288313 206470
326	Contemporary Trade Directory Entries Name: Glynneath Industrial Laundry Location: Bethel Road, Glynneath, Neath, West Glamorgan, SA11 5DG Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	509	-	288351 206515
326	Contemporary Trade Directory Entries Name: Neath Vale Building Supplies Ltd Location: Bethel Road, Glynneath, Neath, West Glamorgan, SA11 5DG Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	513	-	288355 206521
327	Contemporary Trade Directory Entries Name: R O Parks Hirwaun Ltd Location: 12, Plas-y-Coed, Glynneath, Neath, West Glamorgan, SA11 5SB Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	511	-	287273 206284
327	Contemporary Trade Directory Entries Name: Glynneath Guinea Pig Rescue Location: Glynneath, Neath, West Glamorgan, SA11 5SQ Classification: Dry Cleaners Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	538	-	287237 206297
328	Contemporary Trade Directory Entries Name: Reliance Cleaning Solutions Location: 56, Morfa Glas, Glynneath, Neath, SA11 5RP Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	581	-	287142 206506
329	Contemporary Trade Directory Entries Name: The Vale Of Neath Auto Services Location: Chain Walk, Glynneath, Neath, West Glamorgan, SA11 5HE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	608	-	287292 206097
330	Contemporary Trade Directory Entries Name: Paul Green Tyres Location: Unit 1-2, Glynneath Village Workshops, Glynneath, Neath, West Glamorgan, SA11 5RG Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	716	-	287138 206114

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	Contemporary Trade Directory Entries Name: Paul Green Location: Unit 1-2, Glynneath Village Workshops, Glynneath, Neath, SA11 5RG Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	722	-	287102 206159
331	Contemporary Trade Directory Entries Name: Mike Morgan Rallying Location: Unit 3-4, Glynneath Village Workshops, Glynneath, Neath, West Glamorgan, SA11 5RG Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	733	-	287093 206154
331	Contemporary Trade Directory Entries Name: Elliott Building Supplies Location: Unit 13, Glynneath Village Workshops, Glynneath, Neath, SA11 5RG Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	734	-	287093 206152
332	Fuel Station Entries Name: Glyn Neath Express Location: Neath Road, Glynneath, Neath, Neath Port Talbot, SA11 5EW Brand: Esso Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	201	-	287605 206361
333	Points of Interest - Commercial Services Name: Scarr Resprays Location: Lancaster House, Lancaster Close, Glynneath, Neath, SA11 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	180	7	287917 206735
333	Points of Interest - Commercial Services Name: S'Car Resprays Location: Lancaster House, Lancaster Close, Glynneath, Neath, SA11 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	180	7	287917 206735
334	Points of Interest - Commercial Services Name: Windsor Motors Location: Lancaster Close, Glynneath, Neath, SA11 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	293	7	288035 206728
335	Points of Interest - Commercial Services Name: John Pearce Glynneath Ltd Location: 1 Wellfield Place, Glynneath, Neath, SA11 5ER Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	455	7	287372 206237
335	Points of Interest - Commercial Services Name: John Pearce Glynneath Ltd Location: 1 Wellfield Place, Glynneath, Neath, SA11 5ER Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	455	7	287372 206237
336	Points of Interest - Commercial Services Name: White Hart Garage Location: Oddfellows Street, Glynneath, Neath, SA11 5DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	467	7	288313 206470
336	Points of Interest - Commercial Services Name: Nelson & Son (Glynneath) Ltd Location: Oddfellows Street, Glynneath, Neath, SA11 5DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	467	7	288313 206470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
336	Points of Interest - Commercial Services Name: Nelson & Son Glynneath Ltd Location: Oddfellows Street, Glynneath, Neath, SA11 5DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	467	7	288313 206470
337	Points of Interest - Commercial Services Name: Vale of Neath Auto Services Location: 1-2 Chain Walk, Glynneath, Neath, SA11 5HE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	596	7	287303 206103
337	Points of Interest - Commercial Services Name: The Vale of Neath Auto Services Location: Chain Walk, Glynneath, Neath, SA11 5HE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	608	7	287292 206097
338	Points of Interest - Commercial Services Name: Mike Morgan Rallying Location: Unit 3-4 Glynneath Village Workshops, Glynneath, Neath, SA11 5RG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	737	7	287121 206102
339	Points of Interest - Manufacturing and Production Name: Identilase Ltd Location: 16a Bethania Street, Glynneath, Neath, SA11 5DE Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A14SW (E)	405	7	288252 206425
340	Points of Interest - Manufacturing and Production Name: Workings (Dis) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	576	7	287868 207240
341	Points of Interest - Manufacturing and Production Name: Pit (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	587	7	288120 207129
342	Points of Interest - Manufacturing and Production Name: Glyn-Neath Business Parc Location: SA11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	665	7	287150 206191
342	Points of Interest - Manufacturing and Production Name: Glynneath Village Workshops Location: SA11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	693	7	287111 206203
343	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: SA10 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NW (W)	801	7	286938 206872
344	Points of Interest - Manufacturing and Production Name: Air Shaft (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	828	7	288298 207294
345	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A2NE (S)	996	7	287426 205534

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
345	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A2NE (S)	1000	7	287426 205530
346	Points of Interest - Public Infrastructure Name: Esso Location: Neath Road, Glynneath, Neath, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	201	7	287605 206361
346	Points of Interest - Public Infrastructure Name: Glyn Neath Express Location: Neath Road, Glynneath, Neath, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	201	7	287605 206361
346	Points of Interest - Public Infrastructure Name: Tesco Petrol Station Location: Neath Road Glynneath Neath, Glynneath, Neath, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	202	7	287603 206362
346	Points of Interest - Public Infrastructure Name: Esso Location: Neath Road, Glynneath, Neath, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	205	7	287606 206356
346	Points of Interest - Public Infrastructure Name: Tesco Express Location: Glynneath, Neath, West Glamorgan, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	205	7	287597 206363
346	Points of Interest - Public Infrastructure Name: Glyn Neath Express Location: Glynneath, Neath, West Glamorgan, SA11 5EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	206	7	287596 206362
346	Points of Interest - Public Infrastructure Name: Glynneath Fire Station Location: Wellfield Place, Neath, SA11 5ER Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A13SW (SW)	258	7	287536 206348
347	Points of Interest - Public Infrastructure Name: Glynneath Police Station Location: Whitting Street, Glynneath, Neath, SA11 5DH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A14SW (E)	292	7	288137 206481
348	Points of Interest - Public Infrastructure Name: Weirs Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	293	7	288025 206212
348	Points of Interest - Public Infrastructure Name: Weirs Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	293	7	288048 206231
348	Points of Interest - Public Infrastructure Name: Weir Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	318	7	288084 206233

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
348	Points of Interest - Public Infrastructure Name: Weir Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	318	7	288090 206239
349	Points of Interest - Public Infrastructure Name: Weir Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	427	7	287657 206054
350	Points of Interest - Public Infrastructure Name: Heap (Disused) Location: SA11 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	573	7	288090 205926
350	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: SA11 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	596	7	288142 205927
351	Points of Interest - Public Infrastructure Name: Weir Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	757	7	288048 205714
351	Points of Interest - Public Infrastructure Name: Weir Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	757	7	288055 205716
352	Points of Interest - Public Infrastructure Name: Weir Location: SA10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	898	7	286830 206833
353	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Earlsfield Close, SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (S)	37	7	287751 206487
354	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	637	7	287131 206292
354	Points of Interest - Recreational and Environmental Name: Play Area Location: SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	639	7	287128 206293
354	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	700	7	287063 206294
354	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (SW)	704	7	287081 206238

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
355	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	951	7	286958 205961
355	Points of Interest - Recreational and Environmental Name: Play Area Location: Nr (Llys Catwg), SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7NW (SW)	954	7	286955 205960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
356	Ancient Woodland Name: Not Supplied Reference: 18547 Area(m ²): 19607.86 Type: Ancient and Semi-Natural Woodland	A13NE (NE)	205	2	287940 206747
357	Ancient Woodland Name: Not Supplied Reference: 16893 Area(m ²): 32690.47 Type: Ancient and Semi-Natural Woodland	A13NW (NW)	223	2	287495 206717
358	Ancient Woodland Name: Not Supplied Reference: 22440 Area(m ²): 7166.73 Type: Restored Ancient Woodland Site	A12NE (W)	280	2	287432 206675
359	Ancient Woodland Name: Not Supplied Reference: 14058 Area(m ²): 131578.01 Type: Ancient and Semi-Natural Woodland	A8NE (SE)	321	2	287968 206147
360	Ancient Woodland Name: Not Supplied Reference: 10512 Area(m ²): 23761.85 Type: Restored Ancient Woodland Site	A12NE (NW)	336	2	287381 206725
361	Ancient Woodland Name: Not Supplied Reference: 8883 Area(m ²): 81156.42 Type: Ancient and Semi-Natural Woodland	A8NE (S)	362	2	287932 206091
362	Ancient Woodland Name: Not Supplied Reference: 18548 Area(m ²): 2709.04 Type: Ancient and Semi-Natural Woodland	A13NE (NE)	378	2	288062 206884
363	Ancient Woodland Name: Not Supplied Reference: 9496 Area(m ²): 2405.29 Type: Ancient and Semi-Natural Woodland	A17SE (NW)	397	2	287393 206901
364	Ancient Woodland Name: Not Supplied Reference: 14075 Area(m ²): 6884.92 Type: Ancient and Semi-Natural Woodland	A18SE (N)	398	2	287882 207051
365	Ancient Woodland Name: Not Supplied Reference: 40275 Area(m ²): 187510.55 Type: Plantation on Ancient Woodland	A12NE (NW)	428	2	287346 206889
366	Ancient Woodland Name: Not Supplied Reference: 7364 Area(m ²): 10380.77 Type: Ancient and Semi-Natural Woodland	A17SE (NW)	430	2	287399 206959
367	Ancient Woodland Name: Not Supplied Reference: 14055 Area(m ²): 38930.69 Type: Ancient and Semi-Natural Woodland	A8NE (SE)	434	2	288011 206043
368	Ancient Woodland Name: Not Supplied Reference: 39780 Area(m ²): 1853.21 Type: Plantation on Ancient Woodland	A8NE (S)	436	2	287889 206008
369	Ancient Woodland Name: Not Supplied Reference: 22441 Area(m ²): 23855.03 Type: Restored Ancient Woodland Site	A12NE (NW)	482	2	287251 206807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
370	Ancient Woodland Name: Not Supplied Reference: 18549 Area(m ²): 21787.64 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	488	2	288172 206915
371	Ancient Woodland Name: Not Supplied Reference: 14076 Area(m ²): 1972.65 Type: Ancient and Semi-Natural Woodland	A18SE (N)	522	2	287781 207198
372	Ancient Woodland Name: Not Supplied Reference: 16892 Area(m ²): 4275.92 Type: Ancient and Semi-Natural Woodland	A12NE (W)	564	2	287148 206668
373	Ancient Woodland Name: Not Supplied Reference: 10512 Area(m ²): 8.43 Type: Restored Ancient Woodland Site	A18SW (NW)	599	2	287478 207216
374	Ancient Woodland Name: Not Supplied Reference: 39780 Area(m ²): 282.29 Type: Plantation on Ancient Woodland	A8SE (S)	622	2	288012 205844
375	Ancient Woodland Name: Not Supplied Reference: 14054 Area(m ²): 10404.34 Type: Ancient and Semi-Natural Woodland	A8SW (S)	631	2	287593 205859
376	Ancient Woodland Name: Not Supplied Reference: 41122 Area(m ²): 1124.69 Type: Plantation on Ancient Woodland	A8SE (S)	634	2	287996 205827
377	Ancient Woodland Name: Not Supplied Reference: 14077 Area(m ²): 12628.94 Type: Ancient and Semi-Natural Woodland	A18NE (N)	640	2	288030 207253
378	Ancient Woodland Name: Not Supplied Reference: 42833 Area(m ²): 2499.48 Type: Plantation on Ancient Woodland	A17SE (NW)	641	2	287168 207006
379	Ancient Woodland Name: Not Supplied Reference: 14052 Area(m ²): 13361.24 Type: Ancient and Semi-Natural Woodland	A8SE (S)	643	2	288022 205826
380	Ancient Woodland Name: Not Supplied Reference: 42582 Area(m ²): 3128.25 Type: Plantation on Ancient Woodland	A18NW (N)	701	2	287549 207349
381	Ancient Woodland Name: Not Supplied Reference: 39406 Area(m ²): 28691.84 Type: Plantation on Ancient Woodland	A18NW (N)	758	2	287643 207428
382	Ancient Woodland Name: Not Supplied Reference: 14056 Area(m ²): 10142.02 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	761	2	287105 206083
383	Ancient Woodland Name: Not Supplied Reference: 43107 Area(m ²): 7371.61 Type: Plantation on Ancient Woodland	A17SW (NW)	768	2	287092 207120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
384	Ancient Woodland Name: Not Supplied Reference: 41664 Area(m ²): 4998.26 Type: Plantation on Ancient Woodland	A17SW (NW)	773	2	287036 207041
385	Ancient Woodland Name: Not Supplied Reference: 42832 Area(m ²): 2331.38 Type: Plantation on Ancient Woodland	A17SW (NW)	774	2	287041 207051
386	Ancient Woodland Name: Not Supplied Reference: 10170 Area(m ²): 146327.1 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	800	2	288398 207140
387	Ancient Woodland Name: Not Supplied Reference: 18557 Area(m ²): 28581.1 Type: Ancient and Semi-Natural Woodland	A19NW (NE)	811	2	288284 207284
388	Ancient Woodland Name: Not Supplied Reference: 39780 Area(m ²): 3976.97 Type: Plantation on Ancient Woodland	A9SW (SE)	826	2	288222 205708
389	Ancient Woodland Name: Not Supplied Reference: 22439 Area(m ²): 31812.8 Type: Restored Ancient Woodland Site	A12NW (W)	838	2	286874 206684
390	Ancient Woodland Name: Not Supplied Reference: 14078 Area(m ²): 60810.53 Type: Ancient and Semi-Natural Woodland	A18NE (N)	841	2	288040 207465
391	Ancient Woodland Name: Not Supplied Reference: 9077 Area(m ²): 23370.77 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	870	2	287358 207460
392	Ancient Woodland Name: Not Supplied Reference: 41123 Area(m ²): 4407.74 Type: Plantation on Ancient Woodland	A8SW (S)	921	2	287560 205562
393	Ancient Woodland Name: Not Supplied Reference: 8882 Area(m ²): 1017.37 Type: Ancient and Semi-Natural Woodland	A9SW (S)	922	2	288124 205564
394	Ancient Woodland Name: Not Supplied Reference: 42836 Area(m ²): 73100.04 Type: Plantation on Ancient Woodland	A17NW (NW)	923	2	287007 207261
395	Ancient Woodland Name: Not Supplied Reference: 10168 Area(m ²): 16179.06 Type: Ancient and Semi-Natural Woodland	A19SE (NE)	986	2	288620 207135
396	Ancient Woodland Name: Not Supplied Reference: 39867 Area(m ²): 2081.42 Type: Plantation on Ancient Woodland	A23SW (N)	994	2	287463 207629

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Powys County Council - Public Protection Department Natural Resources Wales Neath Port Talbot County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council - Environmental Services	February 2015 June 2020 March 2015 October 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Natural Resources Wales Environment Agency - Welsh Region	April 2020 August 2014	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Natural Resources Wales Environment Agency - Welsh Region	April 2020 July 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council - Public Protection Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	August 2012 May 2014 September 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council - Public Protection Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	March 2014 May 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council - Public Protection Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	March 2014 May 2014 September 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	June 2020	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register Natural Resources Wales Environment Agency Wales - South East Area Environment Agency Wales - South West Area	April 2020 July 2020 July 2020	Quarterly Quarterly Quarterly
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region	April 2020 July 2020	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	April 2020 October 2017	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	May 2020	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	June 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Environment Agency Wales - South West Area Natural Resources Wales	July 2020 July 2020 July 2020	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - South East Area Environment Agency Wales - South West Area	April 2020 July 2020 July 2020	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council Rhondda Cynon Taff County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Powys County Council Rhondda Cynon Taff County Borough Council Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000 September 2003	Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Brecon Beacons National Park Powys County Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Neath Port Talbot County Borough Council - Planning Department	August 2008 February 2016 February 2016 October 2015	Annual Rolling Update Variable Variable Variable
Planning Hazardous Substance Consents Brecon Beacons National Park Powys County Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Neath Port Talbot County Borough Council - Planning Department	August 2008 February 2016 February 2016 October 2015	Annual Rolling Update Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2020	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	June 2020	Quarterly
Points of Interest - Education and Health PointX	June 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2020	Quarterly
Points of Interest - Public Infrastructure PointX	June 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2020	Quarterly
Underground Electrical Cables National Grid	August 2020	

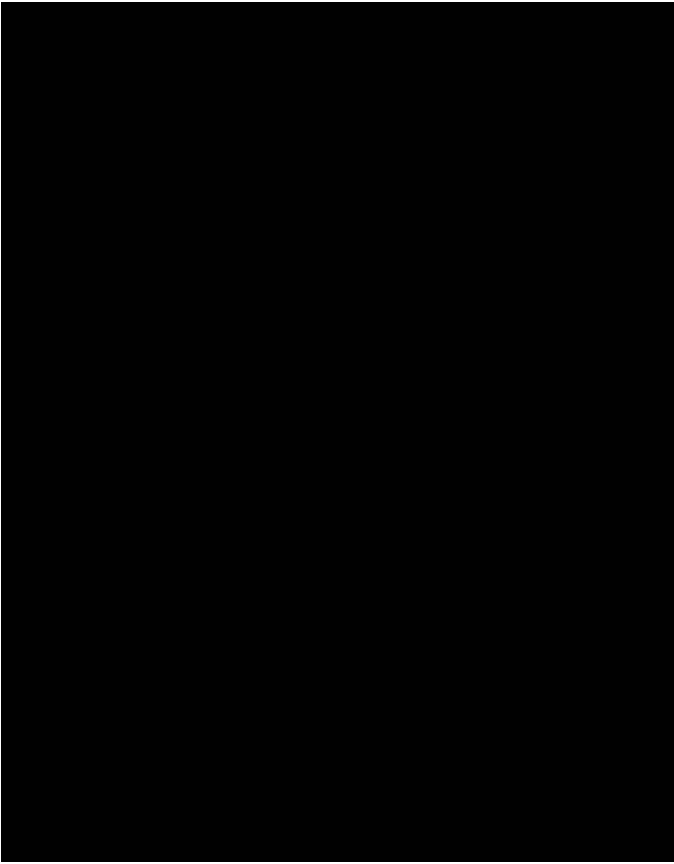
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Brecon Beacons National Park Neath Port Talbot County Borough Council - Planning Services Powys County Council Rhondda Cynon Taff County Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Brecon Beacons National Park Neath Port Talbot County Borough Council - Planning Services Powys County Council Rhondda Cynon Taff County Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Neath Port Talbot County Borough Council Powys County Council Rhondda Cynon Taff County Borough Council	August 2018 August 2018 August 2018	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2019 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

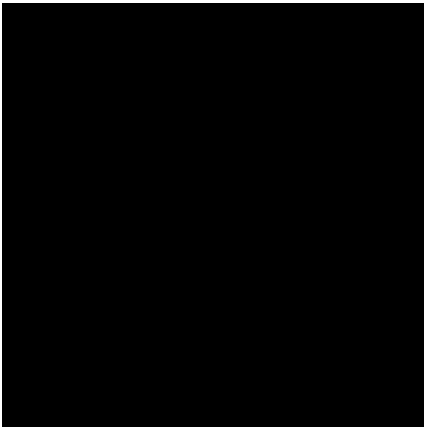
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



Site Sensitivity Map - Segment A13

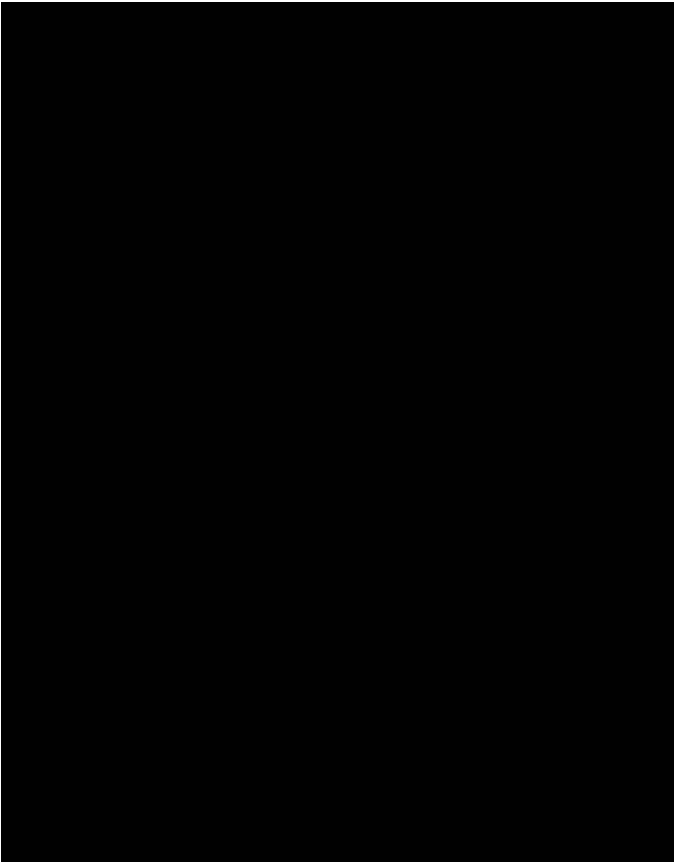


Order Details

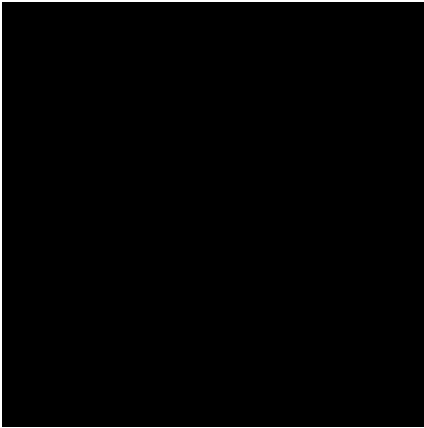
Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Plot Buffer (m): 100

Site Details

Site at 287770, 206560



Site Sensitivity Map - Slice A



Order Details

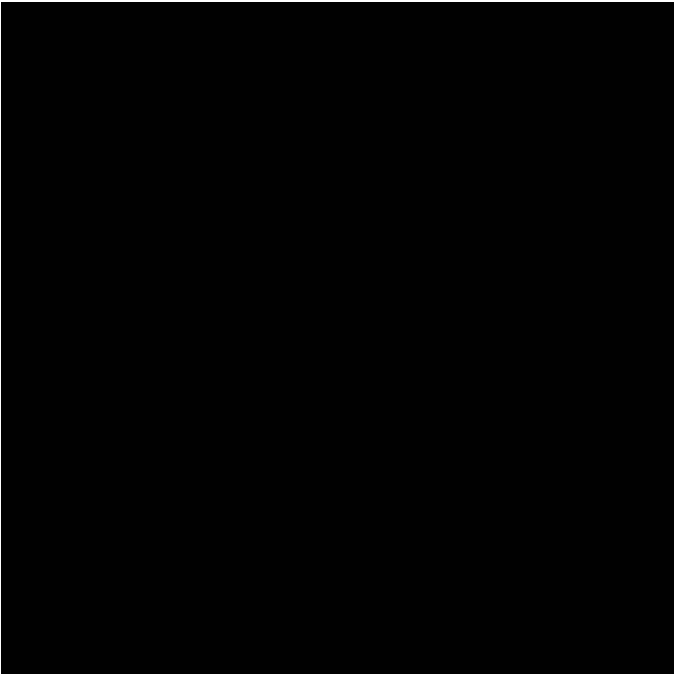
Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

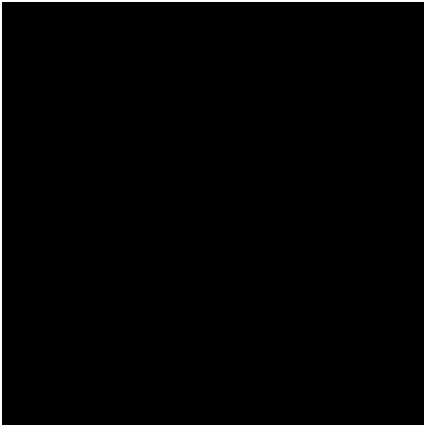
Site at 287770, 206560



Industrial Land Use Map



Industrial Land Use Map - Slice A

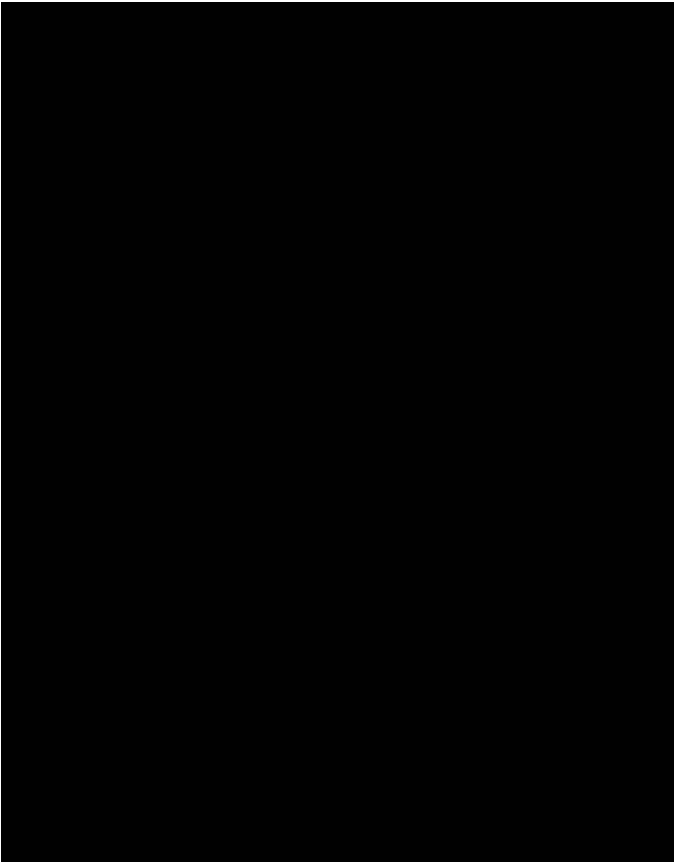


Order Details

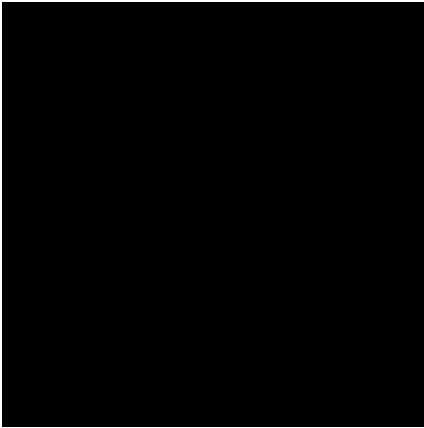
Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



Flood Map - Slice A

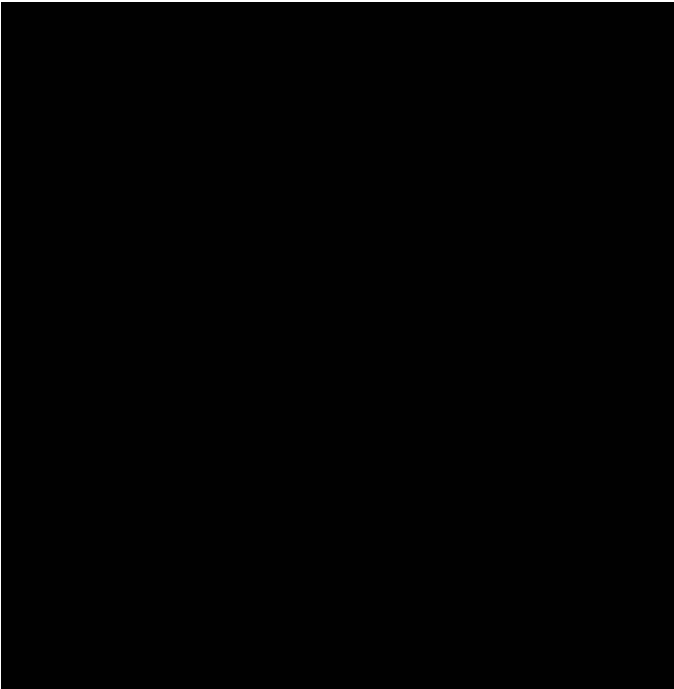


Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

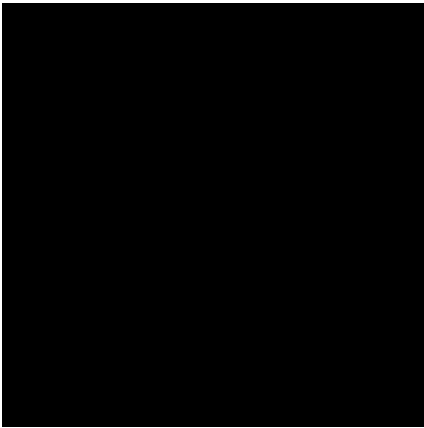
Site at 287770, 206560



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.

Borehole Map - Slice A

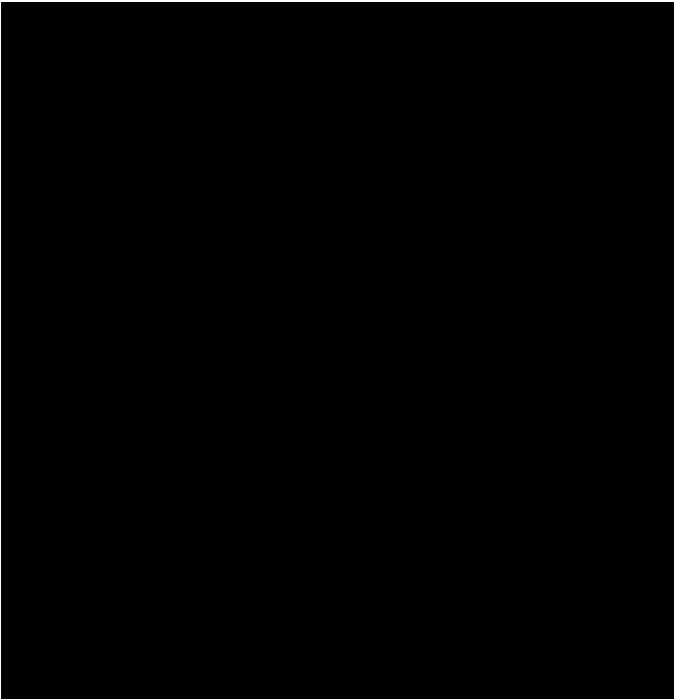


Order Details

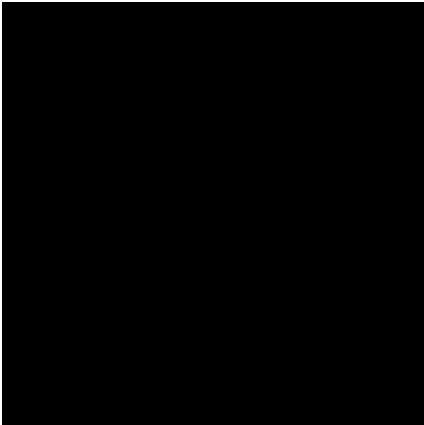
Order Number:	254242348_1_1
Customer Ref:	15710 - 45
National Grid Reference:	287780, 206560
Slice:	A
Site Area (Ha):	0.92
Search Buffer (m):	1000

Site Details

Site at 287770, 206560



OS Water Network Map - Slice A

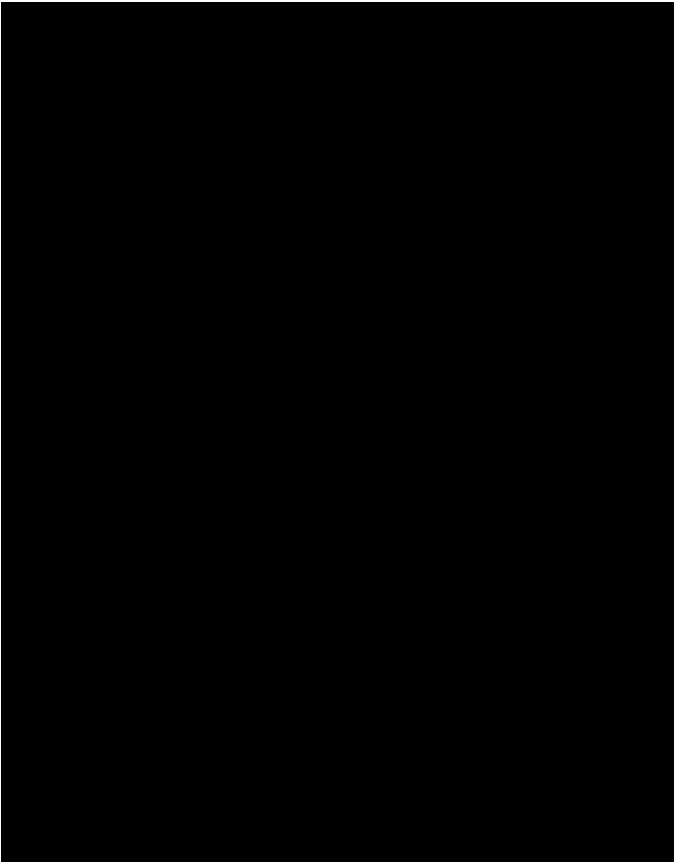


Order Details

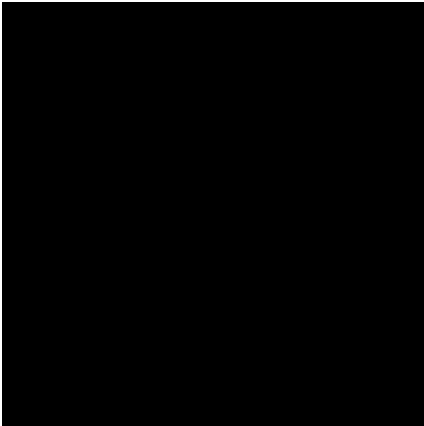
Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560



EA/NRW Suitability Map - Slice A



Order Details

Order Number: 254242348_1_1
Customer Ref: 15710 - 45
National Grid Reference: 287780, 206560
Slice: A
Site Area (Ha): 0.92
Search Buffer (m): 1000

Site Details

Site at 287770, 206560

**ANNEX B
Radon Report**



**British
Geological Survey**
NATURAL ENVIRONMENT RESEARCH COUNCIL

GeoReports

**David Emanuel
Terra Firma Wales Ltd
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HB**

BR211 Radon Report:

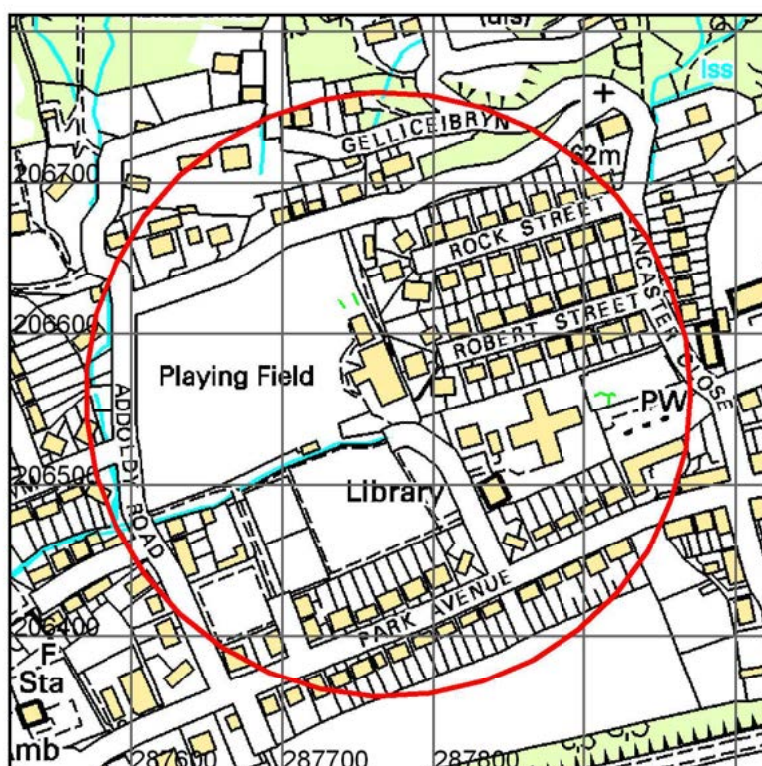
Advisory report on the requirement for radon protective measures in new buildings and extensions.

Report Id: GR_201563/1

Client reference:

Location and extent of site

This report describes a site located at National Grid Reference 287770, 206560. Note that for sites of irregular shape, this point may lie outside the site boundary. Where the client has submitted a site plan the assessment will be based on the area given.



This product includes mapping data licensed from Ordnance Survey.
© Crown Copyright and/or database right 2010. Licence number 100037272

Scale: 1:5 000 (1cm = 50 m)

Search area indicated in red



BR211 Radon Report

This is an advisory report on the requirement for radon protective measures in new buildings and extensions.

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2007 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

BASIC RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

The BGS is not able to provide advice on the technical specifications of 'basic' and 'full' radon protective measures. This information is detailed in **BRE Report BR211 :Radon: Protective measures for new buildings** which may be purchased from **brebookshop.com**. BR211 offers guidance on the technical solutions that are required to satisfy Building Regulations requirements. Summary guidance is available on the web at: <http://www.bre.co.uk/radon/protect.html>.

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

Contact 020 7944 5758 or Email: partsac.br@communities.gsi.gov.uk for advice on the interpretation of guidance contained in BRE Report BR211 (2007).



What is radon ?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m^{-3}). The Government advises householders that, where the radon level exceeds the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations, 1999, require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace**. BRE publications may be obtained from The BRE Bookshop, I H S Technical Indexes Ltd., Willoughby Road, Bracknell, Berkshire RG12 8DW. Tel: 01344 404407, Fax: 01344 714440, website: www.brebookshop.com

Radon in existing buildings

Useful information is given in the following free publications which can be obtained by writing to:

Radon Studies, Radiation Protection Division, Health Protection Agency, Chilton,
Didcot, Oxfordshire OX11 0RQ

Radon - A Householder's Guide

Radon - You Can Test for it

Radon - A Guide for Homebuyers and Sellers

Radon - A Guide to Reducing Levels in Your Home

Information in the booklets is also available on the DEFRA website at:

<http://www.defra.gov.uk/environment/radioactivity/background/radon.htm>

Householders are recommended to follow advice in **Radon - a householder's guide**.

The guide outlines simple solutions for dealing with the radon problem depending on whether or not the home has been tested for radon. In radon affected homes, the problem of radon can usually be tackled with simple, effective and relatively inexpensive measures. These measures are comparable in cost to work such as damp-proofing and timber treatment. You can get practical advice about construction work to reduce radon levels from the Building Control Officer at your local council.

Is this property in a radon affected area – YES

The answer to the standard enquiry on house purchase known as **CON29 Standard Enquiry of Local Authority 3.13 Radon Gas: Location of the Property in a radon Affected Area** is **YES** this property is in a Radon Affected Area as defined by the Health Protection Agency (HPA).

The estimated probability of the property being above the Action Level for radon is:
3-5%.

In addition to the search area, the radon data includes a 75 metre zone around the site to allow for uncertainties in location data and geological line work.

The result informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property. The only way to determine whether it is above or below the Action Level is to carry out a radon measurement within the existing property.

Radon Affected Areas are designated by the HPA. They advise that radon gas should be measured in all properties within Radon Affected Areas.



If you are buying a currently occupied property in a Radon Affected Area you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so whether remedial measures were installed, radon levels were retested, and the that the results of re-testing confirmed the effectiveness of the measures.

For further information, advice about radon, its health risks and details of how to order the radon test, please contact the HPA Radon Helpline on 01235 822622 or go online at www.ukradon.org or write to Radon Studies at the Health Protection Agency, address above. You can obtain an information pack from the HPA free Radon answer phone on 0800 614529.



Contact Details

Keyworth (KW) Office

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Tel: 0115 9363143
Fax: 0115 9363276
Email: enquiries@bgs.ac.uk

Wallingford (WL) Office

British Geological Survey
Maclean Building
Wallingford
Oxford
OX10 8BB
Tel: 01491 838800
Fax: 01491 692345
Email: hydroenq@bgs.ac.uk

Murchison House (MH) Office

British Geological Survey
Murchison House
West Mains Road
Edinburgh
EH9 3LA
Tel: 0131 650 0282
Fax: 0131 650 0252
Email: enquiry@bgs.ac.uk



Terms and Conditions

General Terms & Conditions

This Report is supplied in accordance with the GeoReports Terms & Conditions available on the BGS website at www.bgs.ac.uk/georeports and also available from the BGS Central Enquiries Desk at the above address.

Important notes about this Report

- The data, information and related records supplied in this Report by BGS can only be indicative and should not be taken as a substitute for specialist interpretations, professional advice and/or detailed site investigations. You must seek professional advice before making technical interpretations on the basis of the materials provided.
- Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
- Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected errors.
- Detail, which is clearly defined and accurately depicted on large-scale maps, may be lost when small-scale maps are derived from them.
- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
- Data may be compiled from the disparate sources of information at BGS's disposal, including material donated to BGS by third parties, and may not originally have been subject to any verification or other quality control process.
- Data, information and related records, which have been donated to BGS, have been produced for a specific purpose, and that may affect the type and completeness of the data recorded and any interpretation. The nature and purpose of data collection, and the age of the resultant material may render it unsuitable for certain applications/uses. You must verify the suitability of the material for your intended usage.
- If a report or other output is produced for you on the basis of data you have provided to BGS, or your own data input into a BGS system, please do not rely on it as a source of information about other areas or geological features, as the report may omit important details.
- The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.
- Note that for some sites, the latest available records may be quite historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

Copyright:

Copyright in materials derived from the British Geological Survey's work, is owned by the Natural Environment Research Council (NERC) and/ or the authority that commissioned the work. You may not copy or adapt this publication, or provide it to a third party, without first obtaining NERC's permission, but if you are a consultant providing advice to your own client you may incorporate it unaltered into your report without further permission, provided you give a full acknowledgement of the source. Please contact the BGS Copyright Manager, British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG. Telephone: 0115 936 3100.
© NERC 2010 All rights reserved.

This product includes mapping data licensed from the Ordnance Survey® with the permission of the Controller of Her Majesty's Stationery Office. © Crown Copyright 2010. All rights reserved. Licence number 100037272



**Report issued by
BGS Enquiry Service**

ANNEX C
Coal Authority Mining Report

**Issued by:**

The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

ONESEARCH DIRECT,
DX 512600 GLASGOW 5

Person dealing with this matter:	Louise Tipper
Our reference:	00027091-10
Your reference:	C162950
Electronic Ref:	EME_00014034460001_005
RRUID:	005.00014034460001
Date of your enquiry:	22 June 2010
Date we received your enquiry:	22 June 2010
Date of issue:	22 June 2010

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

Coal and Brine Report

The Welfare Club, Park Avenue, Glynneath, Neath, Neath Port Talbot

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	Yes
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 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 property since 1 January 1984. ✓

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

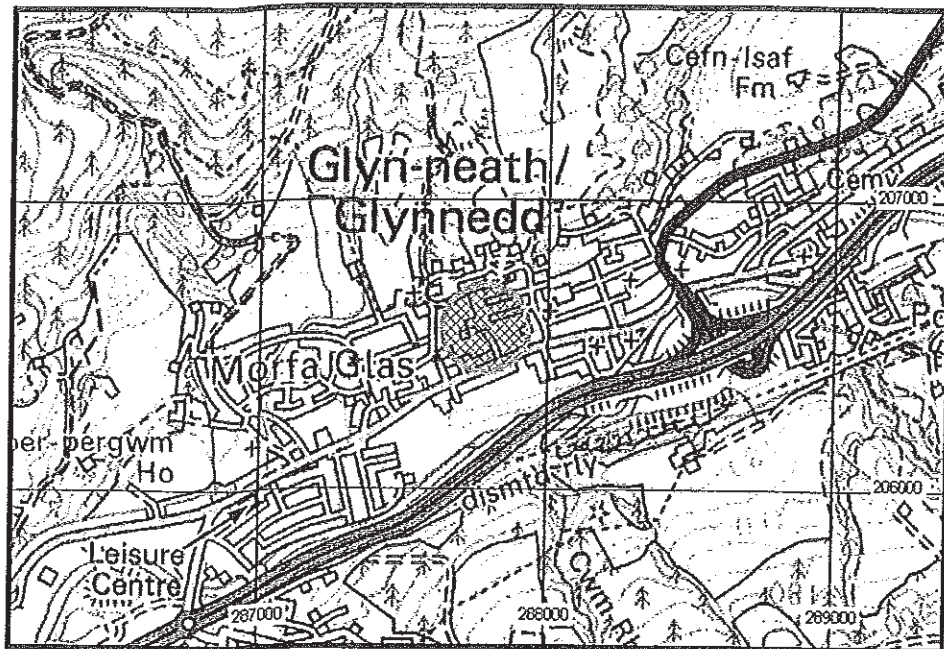
The property lies outside the Cheshire Brine Compensation District. ✓

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 report is compliant with Home Information Pack requirements.

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.

map

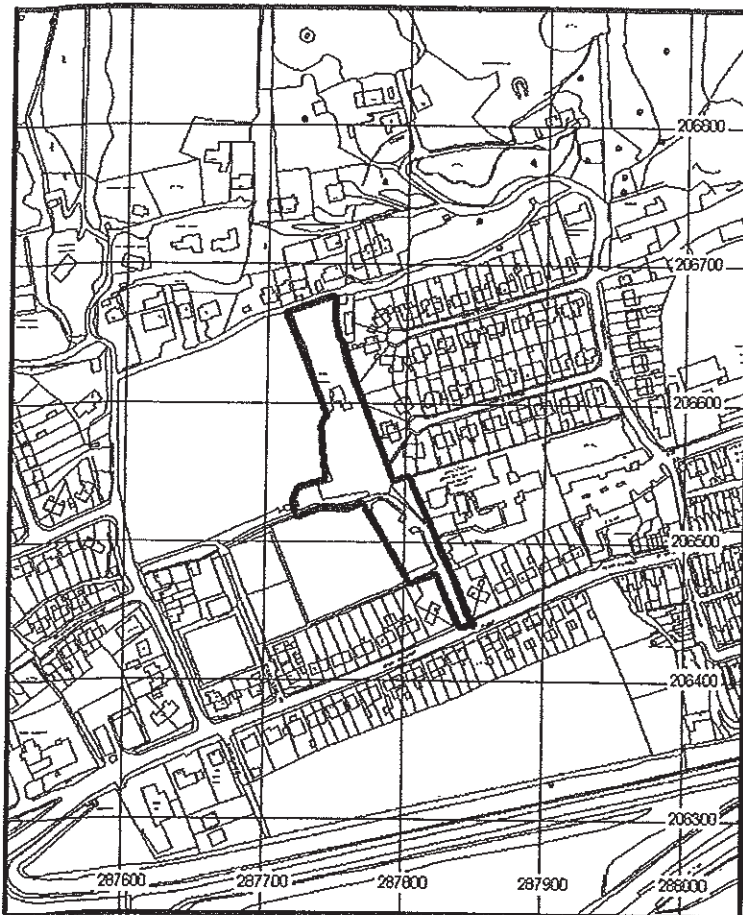


Approximate
position
of property

Enquiry boundary

These maps are reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. The Coal Authority. Licence number: 100020315. [2008]

Key
Approximate position of enquiry boundary shown



ANNEX D
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 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th 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

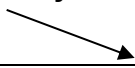
Table A Classification of Consequence	
Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular ecosystem
Medium	• Chronic damage to human health (long term risk) • Pollution of a sensitive water resource • A significant change in an ecosystem or organism within the ecosystem
Mild	• Pollution of non-sensitive water resources • Significant damage to buildings/structures • Damage to sensitive buildings/structure/services or the environment
Negligible	• Harm (not necessarily significant) which may result in financial loss • Non-permanent health effects to humans (easily prevented by PPE for example) • Easily repairable effects of structural (building) damage

Classification of Probability

Table B Classification of Probability	
Classification	Definition
High Likelihood	• 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. • Evidence of harm to the receptor
Likely	• There is a complete pollution linkage which means that it is probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low Likelihood	• There is a complete pollution linkage and circumstances are possible under which an event could occur • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Unlikely	• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term

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 acceptability 		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 E
Trial Pit and Borehole Logs

Project Name
Glynneath

Project No.
11224

Co-ords: -
Level: -

Date
21/10/2010

Location:

Dimensions: -

Scale
1:25

Client:

Depth
1.50m

Logged By

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.25			MADE GROUND: Firm, brown, gravelly SILT/CLAY	
						MADE GROUND: Loose to medium dense, blue-grey to black, slightly silty sandy GRAVEL to BOULDER of angular siltstone.	
			0.80			Stiff, yellow-brown, sandy, very slightly gravelly SILT/CLAY.	1
			1.50			Trialpit Complete at 1.50 m	2
							3
							4

Remarks:

Groundwater: Trial Pit Dry





Project Name Glynneath	Project No. 11224	Co-ords: - Level: -	Date 21/10/2010
Location:		Dimensions: - Depth 1.40m	Scale 1:25
Client:			Logged By

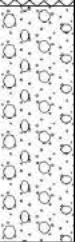
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.21			MADE GROUND: Firm, brown, gravelly SILT	
						MADE GROUND: Loose to medium dense, black, clayey sandy GRAVEL to gravelly CLAY	
			0.90			Stiff, yellow-brown, very slightly gravelly sandy SILT	1
			1.40			Trialpit Complete at 1.40 m	
							2
							3
							4

Remarks:

Groundwater: Trial Pit Dry



Project Name Glynneath	Project No. 11224	Co-ords: - Level: -	Date 21/10/2010
Location:		Dimensions: -	Scale 1:25
Client:		Depth 1.30m	Logged By

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.52			MADE GROUND: Loose to medium dense, brown to grey, clayey sandy GRAVEL to COBBLE including fragments of concrete and brick and containing the occasional rebar.	
			1.30			Medium dense to dense, clayey sandy GRAVEL to BOULDER of rounded sandstone.	1
						Trialpit Complete at 1.30 m	2
							3
							4

Remarks:	
Groundwater: Trial Pit Dry	

Project Name
Glynneath

Project No.
11224

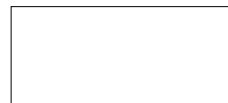
Co-ords: -
Level: -

Date
21/10/2010

Location:

Dimensions: -

Depth
1.30m



Scale
1:25

Client:

Logged By

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.65			MADE GROUND: Firm, brown, sandy gravelly SILT/CLAY	
			1.30			Firm to stiff, yellow-brown, sandy SILT/CLAY with occasional gravel to cobble of rounded sandstone.	1
						Trialpit Complete at 1.30 m	2
							3
							4

Remarks:

Groundwater: Trial Pit Dry





Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Borehole No.

WS01

Sheet 1 of 1

Project Name: Glynneath

Project No:
15710

Co-ords:

Hole Type
WLS

Location:

Level:

Scale
1:50

Client:

Dates: 27/08/2020 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.30				MADE GROUND: Soft, grey to brown, slightly sandy gravelly CLAY	
								Stiff, brown, sandy slightly gravelly CLAY including cobbles of sandstone.	1
				1.50				End of Borehole at 1.500m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: Refusal at 1.5m. Drill bouncing.



Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

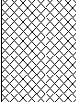
Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Borehole No.

WS02

Sheet 1 of 1

Project Name:	Glynneath	Project No:	15710	Co-ords:		Hole Type	WLS
Location:		Level:				Scale	1:50
Client:		Dates:	27/08/2020 -			Logged By	

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.70				MADE GROUND: Soft, dark-brown, sandy silty CLAY. Includes brick fragments.	
				1.20				Firm, orange-brown, very sandy slightly gravelly SILT/CLAY.	1
				1.50				Brown, very slightly gravelly SAND.	
								End of Borehole at 1.500m	
									2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: Refusal at 1.5m



Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Borehole No.

WS03

Sheet 1 of 1

Project Name: Glynneath	Project No: 15710	Co-ords:	Hole Type WLS
Location:		Level:	Scale 1:50
Client:		Dates: 27/08/2020 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.45				MADE GROUND: Soft, sandy gravelly CLAY	
				0.82				MADE GROUND: Sandy clayey GRAVEL of brick fragments	
				1.00				Brown, very sandy gravelly CLAY (POSS. REWORKED)	1
								Dense, sandy clayey GRAVEL of sandstone	
				1.80				End of Borehole at 1.800m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks:



Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Borehole No.

WS04

Sheet 1 of 1

Project Name: Glynneath	Project No: 15710	Co-ords:	Hole Type WLS
Location:		Level:	Scale 1:50
Client:		Dates: 27/08/2020 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				0.35				MADE GROUND: Grey, sandy GRAVEL	
				0.66				MADE GROUND: Dark-grey, sandy GRAVEL of shale and occasional sandstone.	
				1.10				Grey to orange-brown, sandy SILT/CLAY	1
								Brown, clayey sandy GRAVEL including occasional cobble of sandstone.	
				2.00				End of Borehole at 2.000m	2
									3
									4
									5
									6
									7
									8
									9
									10

Remarks: Refusal at 2.0m

ANNEX F
Soil Chemical Test Results

Analytical Services
Torrington Avenue,
Coventry, CV4 9GU

T: +44 (0)24 7642 1213
F: +44 (0)24 7685 6575

www.stsanalytical.com

Mr Emanuel
Terra Firma
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff CF23 7HB

08 November 2010

Test Report: COV/732788/2010

Dear Mr Emanuel

Analysis of your sample(s) submitted on 21 October 2010 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using Severn Trent Services and we look forward to receiving your next samples.

Yours Sincerely,

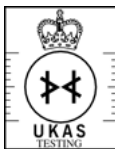
Signed: 

Name: L. Ellis

Title: Inorganics Operations Manager



Report Summary



1314
1229
0897
4409



Mr David Emanuel
Terra Firma
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HB

Date of Issue: **08 November 2010**

Report Number: **COV/732788/2010**

Issue **3**

Job Description: Quote 16913

Job Location: Glynneath

Number of Samples
included in this report: **8**

Job Received: **21 October 2010**

Number of Test Results
included in this report: **288**

Analysis Commenced: **22 October 2010**

Signed: *L. Ellis*

Name: **L. Ellis**

Date: **08 November 2010**

Title: **Inorganics Operations Manager**

Severn Trent Services was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

MCERTS accreditation refers to analysis carried out at our Coventry site only.

Analysis carried out on air-dried and ground test portion of the sample(s), unless otherwise stated. Air drying is carried out at not greater than 30 degrees C. Samples are not preserved on site, unless otherwise stated.

All results are reported on an air-dried basis following removal of stones.

Severn Trent Services Analytical Services is a trading name of Severn Trent Laboratories Limited. This communication has been sent to you by Severn Trent Laboratories Limited. Registered in England and Wales. Registration No. 2148934. Registered Office: 2297 Coventry Road, Birmingham B26 3PU

(c) Severn Trent Services 2010. All rights reserved. We, Severn Trent Laboratories Limited, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046708**

Sample **1** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP1 @ 0.50m**

Visual Description: **brown loam with many stones and some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	57	%	25/10/2010		N Cov	Stones
Moisture content at 30C	9.0	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	22	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	0.34	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	<0.10	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	8.2	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	72	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	44	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	23	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	1.0	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	110	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	02/11/2010		M Cov	14
Organic Matter	5.6	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	<0.75	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	0.083	%	03/11/2010		M Cov	45
pH	8.0	pH units	03/11/2010		Y Cov	39
VPH >C6 - C8, aliphatic	<2.7	mg/kg	05/11/2010		M Cov	304
VPH >C8 - C10, aliphatic	<2.7	mg/kg	05/11/2010		M Cov	304
EPH >C10 - C12, aliphatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aliphatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aliphatic	2.9	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aliphatic	65	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aliphatic	<140	mg/kg	05/11/2010		Y Cov	304/317EPH
VPH >C5- C7, aromatic	<0.27	mg/kg	05/11/2010		M Cov	304
VPH >C7 - C8, aromatic	<0.27	mg/kg	05/11/2010		M Cov	304
VPH >C8 - C10, aromatic	<2.7	mg/kg	05/11/2010		M Cov	304
EPH >C10 - C12, aromatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aromatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aromatic	5.6	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aromatic	120	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aromatic	<140	mg/kg	05/11/2010		Y Cov	304/317EPH
EPH >C6 - C40, Total	200	mg/kg	05/11/2010		Y Cov	304/317EPH
Naphthalene	1.1	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	<0.10	mg/kg	03/11/2010		M Cov	307
Acenaphthene	0.21	mg/kg	03/11/2010		M Cov	307
Fluorene	0.25	mg/kg	03/11/2010		M Cov	307

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046708**

Sample **1** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP1 @ 0.50m**

Visual Description: **brown loam with many stones and some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received:

21 October 2010

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Phenanthrene	3.4	mg/kg	03/11/2010		M Cov	307
Anthracene	1.0	mg/kg	03/11/2010		M Cov	307
Fluoranthene	4.3	mg/kg	03/11/2010		M Cov	307
Pyrene	3.5	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	1.8	mg/kg	03/11/2010		M Cov	307
Chrysene	1.8	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	1.6	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	0.91	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	1.7	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	<0.10	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	1.3	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	1.3	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	24	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046708:

{/*}304 VPH Soils: raised reporting limits due to sample matrix interference {*/}

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046709**

Sample **2** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP1 @ 1.20m**

Visual Description: **brown loam with some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	44	%	25/10/2010		N Cov	Stones
Moisture content at 30C	17	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	7.5	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	<0.20	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	0.20	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	11	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	14	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	17	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	7.7	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	0.42	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	34	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	02/11/2010		M Cov	14
Organic Matter	1.5	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	<0.75	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	<0.024	%	03/11/2010		M Cov	45
pH	8.0	pH units	03/11/2010		Y Cov	39
PAH, Total of 16 EPA	<1.0	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046709:

No Analyst Comment

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.
I/S=Insufficient sample

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046710**

Sample **3** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP2 @ 0.10m**

Visual Description: **brown loam with many stones and some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	49	%	25/10/2010		N Cov	Stones
Moisture content at 30C	6.6	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	15	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	<0.20	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	<0.10	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	15	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	27	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	40	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	42	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	87	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	02/11/2010		M Cov	14
Organic Matter	7.7	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	<0.75	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	<0.024	%	03/11/2010		M Cov	45
pH	8.2	pH units	03/11/2010		Y Cov	39
VPH >C6 - C8, aliphatic	<2.7	mg/kg	05/11/2010		M Cov	304
VPH >C8 - C10, aliphatic	<2.7	mg/kg	05/11/2010		M Cov	304
EPH >C10 - C12, aliphatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aliphatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aliphatic	4.0	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aliphatic	51	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aliphatic	<140	mg/kg	05/11/2010		Y Cov	304/317EPH
VPH >C5- C7, aromatic	<0.27	mg/kg	05/11/2010		M Cov	304
VPH >C7 - C8, aromatic	<0.27	mg/kg	05/11/2010		M Cov	304
VPH >C8 - C10, aromatic	<2.7	mg/kg	05/11/2010		M Cov	304
EPH >C10 - C12, aromatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aromatic	<1.1	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aromatic	12	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aromatic	190	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aromatic	200	mg/kg	05/11/2010		Y Cov	304/317EPH
EPH >C6 - C40, Total	260	mg/kg	05/11/2010		Y Cov	304/317EPH
Naphthalene	1.0	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	<0.10	mg/kg	03/11/2010		M Cov	307
Acenaphthene	0.43	mg/kg	03/11/2010		M Cov	307
Fluorene	0.16	mg/kg	03/11/2010		M Cov	307

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046710**

Sample **3** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP2 @ 0.10m**

Visual Description: **brown loam with many stones and some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Phenanthrene	2.6	mg/kg	03/11/2010		M Cov	307
Anthracene	1.7	mg/kg	03/11/2010		M Cov	307
Fluoranthene	9.5	mg/kg	03/11/2010		M Cov	307
Pyrene	7.9	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	7.3	mg/kg	03/11/2010		M Cov	307
Chrysene	7.5	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	7.3	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	3.9	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	7.8	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	0.14	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	5.4	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	6.2	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	69	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046710:

{/*}304 VPH Soils: raised reporting limits due to sample matrix interference {*/}

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046711**

Sample **4** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP2 @ 1.20m**

Visual Description: **brown loam with some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	37	%	25/10/2010		N Cov	Stones
Moisture content at 30C	21	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	14	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	<0.20	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	0.21	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	14	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	18	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	25	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	9.6	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	0.88	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	52	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	02/11/2010		M Cov	14
Organic Matter	2.2	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	2.3	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	<0.024	%	03/11/2010		M Cov	45
pH	7.7	pH units	03/11/2010		Y Cov	39
PAH, Total of 16 EPA	<1.0	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046711:

No Analyst Comment

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.
I/S=Insufficient sample

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046712**

Sample **5** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP3 @ 0.40m**

Visual Description: **brown loam with some stones.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	21	%	25/10/2010		N Cov	Stones
Moisture content at 30C	19	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	35	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	1.1	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	0.22	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	12	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	59	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	110	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	30	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	1.2	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	160	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	04/11/2010		M Cov	14
Organic Matter	6.1	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	<0.75	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	0.088	%	03/11/2010		M Cov	45
pH	7.9	pH units	03/11/2010		Y Cov	39
Naphthalene	1.5	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	<0.10	mg/kg	03/11/2010		M Cov	307
Acenaphthene	0.28	mg/kg	03/11/2010		M Cov	307
Fluorene	0.30	mg/kg	03/11/2010		M Cov	307
Phenanthrene	5.0	mg/kg	03/11/2010		M Cov	307
Anthracene	1.6	mg/kg	03/11/2010		M Cov	307
Fluoranthene	5.6	mg/kg	03/11/2010		M Cov	307
Pyrene	4.2	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	2.4	mg/kg	03/11/2010		M Cov	307
Chrysene	2.6	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	2.0	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	0.98	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	1.5	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	0.23	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	1.1	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	1.2	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	31	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046712:

No Analyst Comment

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.
Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.
I/S=Insufficient sample

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046713**

Sample **6** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP4 @ 0.20m**

Visual Description: **brown loam with many stones**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	74	%	25/10/2010		N Cov	Stones
Moisture content at 30C	8.1	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	22	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	0.38	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	<0.10	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	10	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	23	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	67	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	9.4	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	0.50	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	100	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	04/11/2010		M Cov	14
Organic Matter	2.3	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	1.2	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	0.27	%	03/11/2010		M Cov	45
pH	9.9	pH units	03/11/2010		Y Cov	39
Naphthalene	19	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	0.26	mg/kg	03/11/2010		M Cov	307
Acenaphthene	5.1	mg/kg	03/11/2010		M Cov	307
Fluorene	2.6	mg/kg	03/11/2010		M Cov	307
Phenanthrene	58	mg/kg	03/11/2010		M Cov	307
Anthracene	26	mg/kg	03/11/2010		M Cov	307
Fluoranthene	87	mg/kg	03/11/2010		M Cov	307
Pyrene	62	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	51	mg/kg	03/11/2010		M Cov	307
Chrysene	54	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	37	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	19	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	30	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	3.7	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	19	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	25	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	500	mg/kg	03/11/2010		M Cov	307

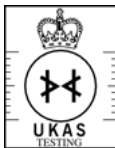
Analyst Comments for 12046713:

No Analyst Comment

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046714**

Sample **7** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP5 @ 0.30m**

Visual Description: **brown loam with many stones and some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	48	%	25/10/2010		N Cov	Stones
Moisture content at 30C	11	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	16	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	0.21	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	<0.10	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	9.6	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	28	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	31	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	8.5	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	0.35	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	92	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	04/11/2010		M Cov	14
Organic Matter	3.1	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	<0.75	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	0.23	%	03/11/2010		M Cov	45
pH	9.9	pH units	03/11/2010		Y Cov	39
Naphthalene	1.2	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	<0.10	mg/kg	03/11/2010		M Cov	307
Acenaphthene	0.19	mg/kg	03/11/2010		M Cov	307
Fluorene	0.11	mg/kg	03/11/2010		M Cov	307
Phenanthrene	2.3	mg/kg	03/11/2010		M Cov	307
Anthracene	0.93	mg/kg	03/11/2010		M Cov	307
Fluoranthene	3.4	mg/kg	03/11/2010		M Cov	307
Pyrene	2.9	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	2.9	mg/kg	03/11/2010		M Cov	307
Chrysene	2.9	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	2.3	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	1.2	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	1.7	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	0.26	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	1.2	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	1.0	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	25	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046714:

No Analyst Comment

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046715**

Sample **8** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP6 @ 0.10m**

Visual Description: **brown loam with some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Stones NG Method	26	%	25/10/2010		N Cov	Stones
Moisture content at 30C	22	%	25/10/2010		N Cov	33A
Arsenic as As, dry weight	58	mg/kg	03/11/2010		M Cov	30/30C
Cadmium as Cd, dry weight	0.81	mg/kg	03/11/2010		M Cov	30
Hexavalent Chromium as dw	0.24	mg/kg	04/11/2010		N Cov	30B
Chromium (III)	15	mg/kg	04/11/2010		N Cov	30
Copper as Cu, dry weight	65	mg/kg	03/11/2010		M Cov	30
Lead as Pb, dry weight	89	mg/kg	03/11/2010		M Cov	30
Mercury as Hg, dry weight	<0.35	mg/kg	03/11/2010		M Cov	30C
Nickel as Ni, dry weight	20	mg/kg	03/11/2010		M Cov	30
Selenium as Se, dry weight	0.98	mg/kg	03/11/2010		M Cov	30C
Zinc as Zn, dry weight	180	mg/kg	03/11/2010		M Cov	30
Cyanide, Total	<2.5	mg/kg	04/11/2010		M Cov	14
Organic Matter	6.0	%	03/11/2010		Y Cov	36
Monohydric Phenols, Total Dist.	0.76	mg/kg	28/10/2010		M Cov	40A
Sulphate, Total as SO4	<0.024	%	03/11/2010		M Cov	45
pH	7.7	pH units	03/11/2010		Y Cov	39
VPH >C6 - C8, aliphatic	0.18	mg/kg	04/11/2010		M Cov	304
VPH >C8 - C10, aliphatic	0.28	mg/kg	04/11/2010		M Cov	304
EPH >C10 - C12, aliphatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aliphatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aliphatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aliphatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aliphatic	<6.4	mg/kg	05/11/2010		Y Cov	304/317EPH
VPH >C5- C7, aromatic	<0.013	mg/kg	04/11/2010		M Cov	304
VPH >C7 - C8, aromatic	<0.013	mg/kg	04/11/2010		M Cov	304
VPH >C8 - C10, aromatic	<0.13	mg/kg	04/11/2010		M Cov	304
EPH >C10 - C12, aromatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C12 - C16, aromatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C16 - C21, aromatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C21 - C40, aromatic	<1.3	mg/kg	05/11/2010		M Cov	317EPH
EPH >C6 - C40, Total aromatic	<6.4	mg/kg	05/11/2010		Y Cov	304/317EPH
EPH >C6 - C40, Total	<6.4	mg/kg	05/11/2010		Y Cov	304/317EPH
Naphthalene	0.17	mg/kg	03/11/2010		M Cov	307
Acenaphthylene	<0.10	mg/kg	03/11/2010		M Cov	307
Acenaphthene	<0.10	mg/kg	03/11/2010		M Cov	307
Fluorene	<0.10	mg/kg	03/11/2010		M Cov	307

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel: +44 (0)24 7642 1213 Fax: +44 (0)24 7685 6575

Certificate of Analysis



1314
1229
0897
4409



Matrix: **Soil**

Report Number: **COV/732788/2010**

Issue **3**

Laboratory Number: **12046715**

Sample **8** of **8**

Sample Source: **Terra Firma**

Sample Point Description: **Terra Firma Wales**

Sample Description: **TP6 @ 0.10m**

Visual Description: **brown loam with some organic matter.**

Sample Date: **21 October 2010**

Sample Time:

Sample Received: **21 October 2010**

Test Description	Result	Units	Analysis Date	UoM%	Accreditation	Method
Phenanthrene	0.25	mg/kg	03/11/2010		M Cov	307
Anthracene	0.18	mg/kg	03/11/2010		M Cov	307
Fluoranthene	0.90	mg/kg	03/11/2010		M Cov	307
Pyrene	0.69	mg/kg	03/11/2010		M Cov	307
Benzo(a)anthracene	0.82	mg/kg	03/11/2010		M Cov	307
Chrysene	0.95	mg/kg	03/11/2010		M Cov	307
Benzo(b)fluoranthene	0.80	mg/kg	03/11/2010		M Cov	307
Benzo(k)fluoranthene	0.41	mg/kg	03/11/2010		M Cov	307
Benzo(a)pyrene	0.58	mg/kg	03/11/2010		M Cov	307
Dibenz(a,h)anthracene	0.10	mg/kg	03/11/2010		M Cov	307
Benzo(g,h,i)perylene	0.53	mg/kg	03/11/2010		M Cov	307
Indeno(1,2,3-c,d)pyrene	0.61	mg/kg	03/11/2010		M Cov	307
PAH, Total of 16 EPA	7.0	mg/kg	03/11/2010		M Cov	307

Analyst Comments for 12046715:

No Analyst Comment

Accreditation Codes: Y = UKAS Accredited, N = Not UKAS Accredited, M = MCERTS.

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.
I/S=Insufficient sample

Signed:

Name: **L. Ellis**

Date: **08 November 2010**

Title: **Inorganics Operations Manager**

Severn Trent Services

Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

DETERMINAND COMMENTS FOR REPORT COV/732788/2010

ISSUE 3

Date of Issue : 08 November 2010

Sample No	Description	Determinand	Comments

Signed: 	Name: L. Ellis	Date: 08 November 2010
	Title: Inorganics Operations Manager	

METHOD COMMENTS FOR REPORT COV/732788/2010

Issue 3

Date of Issue :08 November 2010

Method	Statement
14	The cyanides in the sample are determined in two stages. The free cyanide is liberated by heating with pH 4 buffer and the resulting gas collected in sodium hydroxide solution. Complex cyanide is liberated using phosphoric acid under the same conditions. the two portions of sodium hydroxide are then analysed for cyanide content using a discrete autoanalyser. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
30	Metals are extracted from land samples by boiling with hydrochloric/nitric acids (3:1 ratio). The measurement of metal concentrations is determined directly on an ICP-OES at defined wavelengths. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
30/30C	Metals are extracted from land samples by boiling with hydrochloric/nitric acids (3:1 ratio). For the measurement of metal concentrations is determined on an ICP-OES at defined wavelengths. Where a result is 25mg/kg or above results are obtained directly. Otherwise results are obtained via hydride generation. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
304	The method employs the use of Headspace extraction of the volatile hydrocarbons from as received soil samples using a commercial headspace sampler followed by gas chromatograph (GC). The effluent from the chromatographic column is split between a flame ionisation detector (FID) for the determination of total VPH and a mass selective detector (MSD) for the determination of aromatic volatile hydrocarbons. This analysis is carried out on an as received portion of sample.
304/317EPH	Headspace extraction of the compounds from the sample using a commercial headspace sampler followed by separation and quantitative determination of the compounds using gas chromatography with flame ionisation detection/Soil samples are extracted with hexane. The extracts are separated into aliphatic and aromatic fractions using silica solid phase extraction cartridges. The fractionated extracts are then analysed by capillary gas chromatography with flame ionisation detection (GC-FID). This analysis is carried out on an as received portion of sample.
307	PAHs are extracted from land samples using acetone. The samples are shaken mechanically and then centrifuged. An aliquot of the supernatant liquid is then transferred to a separate vial and analysed by HPLC using a variable wavelength programme. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
30B	Hexavalent chromium is extracted from land samples using dilute hydrochloric acid. The extract is shaken and then filtered. The measurement of chromium in the filtrate is then determined directly by ICP-OES at a defined wavelength. This analysis is carried out on an air dried sample, ground to pass a 212um sieve.
30C	Metals are extracted from land samples by boiling with hydrochloric/nitric acid (3:1 ratio). The measurement of metal concentrations is determined by means of hydride generation / atomic vapour on an ICP-OES at defined wavelengths. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
317EPH	A known amount of soil, with a surrogate spike added, is shaken and sonicated in an extraction vial containing hexane and acetone. Water is added to the sample and then centrifuged; a test portion of the resulting hexane layer is transferred to a 2ml vial. The extract can then be analysed by FC-FID. Fractionation is done by solid phase extraction using an unmodified silica column. This analysis is carried out on an as received portion of sample.
33A	Moisture Content is the weight difference between an as received sample and the air dried sample at 30 degrees C.
36	This method determines the percentage, by dry mass, of natural organic matter present in soil. This analysis is carried out on an air dried sample, ground to pass a 212um sieve.
39	The test is carried out by extraction using deionised water with agitation. The pH of this suspension is read directly from an electronic pH meter. This analysis is carried out on an air dried sample, ground to pass a 212um sieve.
40A	This method determines steam distillable phenolic compounds in land materials. Phenol is extracted from air dried soil using steam distillation. The pH adjusted distillate is measured colorimetrically at a defined wavelength. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
45	The sulphates are extracted from land samples using boiling hydrochloric acid solution. After cooling and filtration the determination of sulphate is obtained from an aliquot of solution, via a turbidimetric measurement. This analysis is carried out on an air dried sample, ground to pass a 2mm sieve.
Stones	The percentage weight of the stones that are naturally occurring and are greater than 10mm in diameter of the total weight of sample.



Final Report

Report No.: 20-23117-1
Initial Date of Issue: 07-Sep-2020
Client Terra Firma (Wales) Ltd
Client Address: 5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Contact(s): Dave Emanuel

Project 15710 Glynneath

Quotation No.: **Date Received:** 01-Sep-2020

Order No.: **Date Instructed:** 01-Sep-2020

No. of Samples: 6

Turnaround (Wkdays): 5 **Results Due:** 07-Sep-2020

Date Approved: 07-Sep-2020

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 15710 Glynneath

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:					20-23117	20-23117	20-23117	20-23117	20-23117	20-23117
Quotation No.:	Chemtest Sample ID.:					1056662	1056663	1056664	1056665	1056666	1056667
	Sample Location:					WS01	WS02	WS03	WS03	WS04	WS04
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.20	0.40	0.40	0.60	0.30	0.60
	Date Sampled:					27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	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	20	16	19	13	8.4	5.1	
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Black
Other Material	N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	7.5	7.8	8.2	9.1	9.1	9.1	8.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	0.46	0.48	0.54	0.88	0.88	< 0.40
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.028	0.061	< 0.010	0.15	0.19	0.19	0.30
Arsenic	M	2450	mg/kg	1.0	11	36	1.1	32	40	40	15
Cadmium	M	2450	mg/kg	0.10	0.10	0.70	< 0.10	0.58	0.48	0.48	0.21
Chromium	M	2450	mg/kg	1.0	9.4	13	< 1.0	12	13	13	7.1
Mercury Low Level	M	2450	mg/kg	0.05	0.05	0.10	< 0.05	0.08	0.05	0.05	0.23
Copper	M	2450	mg/kg	0.50	6.7	28	1.0	25	21	21	48
Nickel	M	2450	mg/kg	0.50	8.1	15	0.53	16	20	20	63
Lead	M	2450	mg/kg	0.50	15	47	1.3	41	34	34	25
Selenium	M	2450	mg/kg	0.20	0.83	1.0	< 0.20	0.47	< 0.20	< 0.20	1.5
Zinc	M	2450	mg/kg	0.50	30	96	4.8	130	76	76	97
Chromium (Trivalent)	N	2490	mg/kg	1.0	9.4	13	< 1.0	12	13	13	7.1
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	[C] < 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 15710 Glynneath

Client: Terra Firma (Wales) Ltd	Chemtest Job No.: 20-23117 20-23117 20-23117 20-23117 20-23117 20-23117									
Quotation No.:	Chemtest Sample ID.: 1056662 1056663 1056664 1056665 1056666 1056667									
	Sample Location:		WS01	WS02	WS03	WS03	WS04	WS04		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.20	0.40	0.40	0.60	0.30	0.60		
	Date Sampled:		27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020	27-Aug-2020		
	Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY		
Determinand	Accred.	SOP	Units	LOD						
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	[C] < 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	[C] < 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	[C] < 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.60	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.6	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.6	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.73	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.93	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.66	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.39	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.82	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	11	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	1.3	3.3	3.3	2.1	1.1	1.2

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1056664			WS03	27-Aug-2020	C	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	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 <37°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.
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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane 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)
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"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

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 TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°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

Sample Deviation Codes

- 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 - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 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

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 20-23111-1
Initial Date of Issue: 07-Sep-2020
Client Terra Firma (Wales) Ltd
Client Address: 5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Contact(s): Dave Emanuel

Project 15710/2 Park Avenue

Quotation No.: **Date Received:** 01-Sep-2020

Order No.: **Date Instructed:** 01-Sep-2020

No. of Samples: 2

Turnaround (Wkdays): 5 **Results Due:** 07-Sep-2020

Date Approved: 07-Sep-2020

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 15710/2 Park Avenue

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				20-23111	20-23111
Quotation No.:	Chemtest Sample ID.:				1056642	1056643
	Sample Location:				S1	S2
	Sample Type:				SOIL	SOIL
	Date Sampled:				28-Aug-2020	28-Aug-2020
	Asbestos Lab:				COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-
Moisture	N	2030	%	0.020	10	7.6
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand
pH	M	2010		4.0	11.0	11.3
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.58	0.52
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.21	0.21
Arsenic	M	2450	mg/kg	1.0	23	17
Cadmium	M	2450	mg/kg	0.10	0.65	0.33
Chromium	M	2450	mg/kg	1.0	14	16
Mercury Low Level	M	2450	mg/kg	0.05	< 0.05	< 0.05
Copper	M	2450	mg/kg	0.50	22	20
Nickel	M	2450	mg/kg	0.50	15	16
Lead	M	2450	mg/kg	0.50	57	38
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	80	62
Chromium (Trivalent)	N	2490	mg/kg	1.0	14	16
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	25
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	77
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	100
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	11

Results - Soil

Project: 15710/2 Park Avenue

Client: Terra Firma (Wales) Ltd		Chemtest Job No.:		20-23111	20-23111
Quotation No.:		Chemtest Sample ID.:		1056642	1056643
		Sample Location:		S1	S2
		Sample Type:		SOIL	SOIL
		Date Sampled:		28-Aug-2020	28-Aug-2020
		Asbestos Lab:		COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10
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	0.68
Pyrene	M	2700	mg/kg	0.10	0.60
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
Total Phenols	M	2920	mg/kg	0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	0.70

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	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 <37°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.
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-diphenylcarbazide.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane 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)
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"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

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 TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°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

Sample Deviation Codes

- 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 - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 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

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

ANNEX G
Geotechnical Test Results



Laboratory Report



Contract Number: 11329

Client's Reference: 11224

Report Date: 09-11-2010

Client Name: Terrafirma Wales Ltd
5 Deryn Court,
Wharfedale Road,
Pentwyn,
Cardiff,
CF23 7HB

Contract Title: Glynneath
For the attention of: David Emanuel

Date Received: 26-10-2010
Date Commenced: 26-10-2010
Date Completed: 08-11-2010

Test Description	Quantity	Checked	Approved
4 Point Liquid & Plastic Limit BS1377:1990 2/4.3&5.3 *	2		
Moisture Content BS1377:1990 2/3.2 *	2		

Notes: **Observations and Interpretations are outside the UKAS Accreditation**
 * - Denotes test included in laboratory scope of accreditation
 # - Denotes test carried out by approved contractor

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Approved Signatories:

D V Edwards (Managing Director), Alun Walters (Technical Manager), E Sharp (Technical Co-Ordinator).

Summary of Soil Classification Tests

BS 1377:Part 2:1990

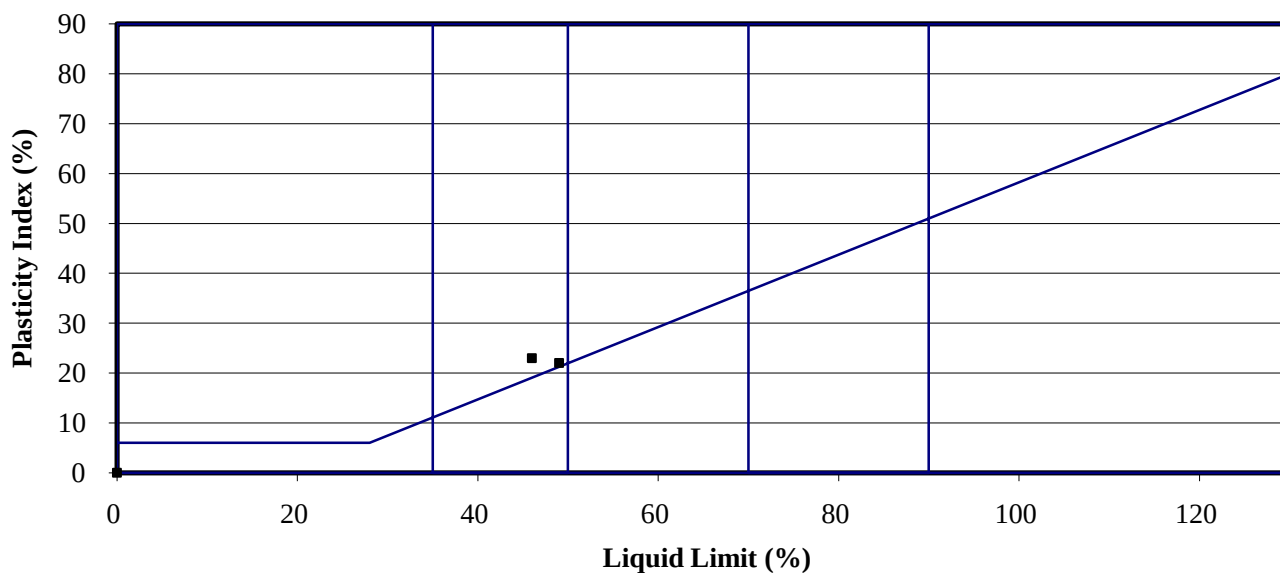
Hole/ Sample Number	Sample Type	Depth m	Moisture Content % Cl. 3.2	Liquid Limit % Cl. 4.3/4.4	Plastic Limit % Cl. 5.	Plasticity Index % Cl. 6.	% Passing .425mm	Remarks
TP1	D	0.90	22	46	23	23	95	CI Intermediate Plasticity
TP3	D	1.20	28	49	27	22	88	CI Intermediate Plasticity

Symbols:

NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

BS 5930:1999



Alan Walker 08/11/10
Checked by Date

Alan Walker 08/11/10
Approved by Date

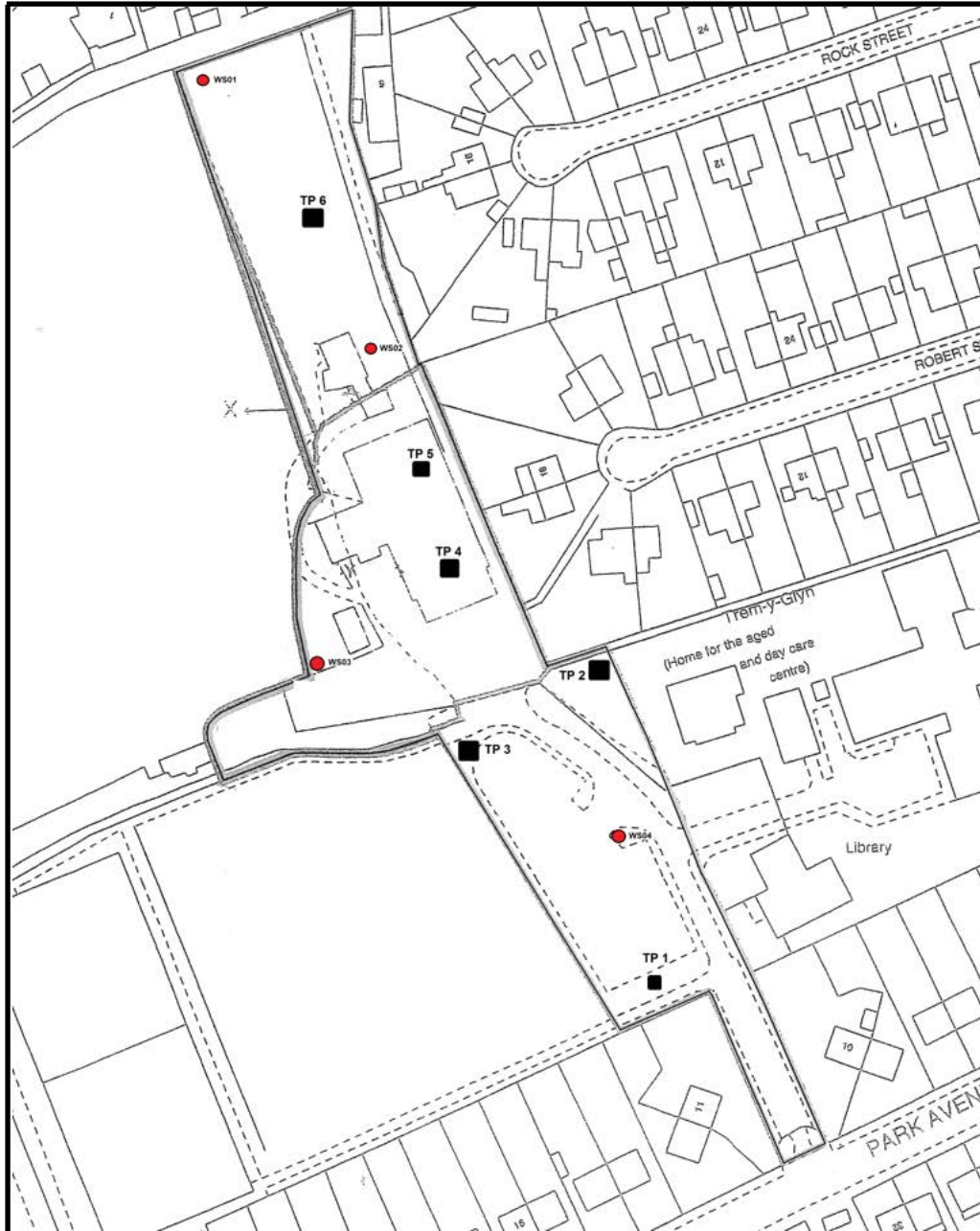


Glynneath

Contract No.:
11329-261010
Client Ref No:
11224



DRAWINGS



Site Name: Park Avenue, GLYNNEATH Project Number: 15710 Drawing Title: Site Layout Drawing Number: 01 Scale: Not to scale	 Geotechnical & Geoenvironmental Specialists
--	--