Pobl Homes and Communities

PHASE 2 GWYNFAEN FARM, GORSEINON

Desk Study Report

14294/LP/24/DS



CLIENT: Pobl Homes and Communities

PROJECT: Phase 2 Gwynfaen Farm, Gorseinon

TITLE: Desk Study Report

JOB NO: 14294

DOCUMENT REF: 14294/LP/24/DS

Revision	Purpose Description	Originated	Reviewed	Authorised	Date
0	Final	LP	HP	RB	Jan' 2024

Geotechnical Engineers:

Intégral Géotechnique (Wales) Limited Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX

Tel: 029 2080 7991

CONTENTS

1.0 INTRODUCTION

- 1.1 General
- 1.2 Proposed Development
- 1.3 Scope of Works
- 1.4 Limitations

2.0 THE SITE

- 2.1 Site Location and Description
- 2.2 Site Operations
- 2.3 Surrounding Land Use
- 2.4 Available Site Investigation Data

3.0 SITE HISTORY

4.0 SITE ENVIRONMENTAL SETTING

- 4.1 Physical Setting
- 4.2 Geology
- 4.3 Radon
- 4.4 Mining
- 4.5 Hydrology, Hydrogeology & Flood Risk
- 4.6 Landfill Sites
- 4.7 Potential Contamination
- 4.8 Other Environmental Issues

5.0 PRELIMINARY CONCEPTUAL SITE MODEL

- 5.1 Risk Assessment Framework
- 5.2 Conceptual Model Framework
- 5.3 Critical Sensitive Receptor Human Health
- 5.4 Critical Sensitive Receptor Controlled Waters
- 5.5 Potential Contaminant Sources
- 5.6 Potential Exposure Pathways
- 5.7 Summary of Conceptual Exposure Model

6.0 ANTICIPATED GROUND CONDITIONS

7.0 SITE ASSESSMENT

- 7.1 Environmental Risk Assessment
- 7.2 Geotechnical Hazards and Constraints

8.0 SITE INVESTIGATION PROPOSALS

CONTENTS (CONTINUED)

APPENDICES

Appendix A Envirocheck Report

Appendix B BGS Radon GeoReport

Appendix C Consultants Coal Mining Report from The Coal Authority

FIGURES

Figure 1 Site Location
Figure 2 Site Plan

Figure 3 Geology Plan Extract

Figure 4 High-Risk Development Zone

1.0 Introduction

1.1 GENERAL

Pobl Homes and Communities are proposing to develop a site at Gwynfaen Farm in Gorseinon for residential end-use.

Hydrock Consultants Limited are the appointed Consulting Civil and Structural Engineers for the scheme.

Intégral Géotechnique (Wales) Limited have been appointed as the Geotechnical Engineers to undertake a geoenvironmental and geotechnical desk study of the site.

The objectives of the geoenvironmental and geotechnical appraisal are to:

- Assess the degree, nature and extent of possible contamination and its implications for ownership and site development;
- Identify any geotechnical constraints on development; and
- Provide recommendations for physical site investigation works.

This report presents the findings of the desk study, and provides guidance on the scope of the geoenvironmental and geotechnical investigation.

The opinions and preliminary assessments presented are based on desk-based research and should be reviewed after intrusive investigation, if required.

This report (including all appendices to it and any subsequent addendums or correspondence) has been prepared for the sole benefit, use and information of Pobl Homes and Communities and no third party is entitled or permitted to rely on it. This report may not be used, reproduced or circulated (in whole or part) for any purpose without the written consent of Intégral Géotechnique (Wales) Limited. Intégral Géotechnique (Wales) Limited shall not be liable to any third party who does not have such express written permission to rely on the report for any losses they may suffer.

1.2 PROPOSED DEVELOPMENT

The proposed development will comprise the construction of a number a residential properties, including flats, and associated infrastructure such as access roads and car parking areas. The development will also include areas of landscaping and private gardens, and also a BMX Pump Track, allotments, an orchard, play areas and attenuation areas.

1.3 SCOPE OF WORKS

The work instructed included a desk study of available information, together with the development of an initial conceptual site model. The desk study comprised a review of:

- An Envirocheck Report obtained for the site,
- Old Ordnance Survey maps covering the site, included within the Envirocheck Report,
- A Radon GeoReport obtained from the British Geological Survey,
- A Consultants Coal Mining Report obtained from The Coal Authority,
- · Geological maps of the area provided by the British Geological Survey,
- Natural Resources Wales groundwater vulnerability map and aquifer database for the area,
- Existing site investigation data.

1.4 LIMITATIONS

This document is intended to be a working document for further development in discussion with all concerned including the Local Planning Authority, Natural Resources Wales, and the NHBC/building control authority as appropriate.

"Contamination" is taken throughout the report to mean the "presence of one or more potentially harmful substances as a result of human activity". The use of the term in this way does not imply that harm is being or might be caused by the contamination. It should be noted that "contamination" can have different meanings under different regulatory regimes, for example, planning, building control and Part IIA of the Environmental Protection Act 1990. Naturally elevated concentrations of potentially harmful substances may also be of concern and the significance of any that have been found is also evaluated in this report.

2.0 THE SITE

2.1 SITE LOCATION AND DESCRIPTION

The site is located within land at Gwynfaen Farm on the northwest edge of Gorseinon at a National Grid Reference of 257790, 199350, see Figure 1.

The site is irregular in shape and occupies an area of approximately 3.5 hectares. The boundaries of the site are defined by the Phase 1 residential development site and existing residential development to the east, undeveloped land and residential development to the south, Gwynfaen Farm to the southwest and undeveloped land to the north and northwest. A site plan is presented in Figure 2.

The site is situated on sloping ground which falls to the west from an approximate maximum elevation of 30m along the eastern edge to an approximate minimum elevation of 14m AOD within the western area.

The site comprises an undeveloped grass covered field with heavily vegetated field boundaries. The northern area of the site is also more heavily vegetated.

There are a series of manhole covers located within the eastern area of the site associated with existing sewers. Overhead electricity lines are also indicated to cross the southern area of the site on an approximately west to east orientation.

2.2 SITE OPERATIONS

The site is currently undeveloped and utilised as farmland.

2.3 SURROUNDING LAND USE

The surrounding areas are either undeveloped farmland or are developed for residential use. The area to the east forms the Gwynfaen Farm Phase 1 development area which is currently under construction.

2.4 AVAILABLE SITE INVESTIGATION DATA

There is no available site investigation data for the site to our knowledge.

The area to the east has been investigated as part of the Phase 1 residential development. The ground conditions in the adjacent field typically comprised topsoil overlying variable glacial till deposits.

2.4 AVAILABLE SITE INVESTIGATION DATA (CONTINUED)

The glacial till comprised a vertically and laterally variable sequence of loose to medium dense orange brown slightly gravelly clayey sand or soft to firm, firm orange brown slightly gravelly to gravelly sandy silty clay. The glacial till further graded into firm orange grey brown sandy gravelly silty clay or locally medium dense sandy clayey gravel with depth and contained variable quantities of gravels, cobbles and boulders of mudstone, siltstone and sandstone.

3.0 SITE HISTORY

The recent history of the site has been traced with the aid of an Envirocheck Report, a copy of which is included in Appendix A. The Envirocheck Report includes the following scaled historical maps:

Map Scale	Dates
1:2,500	1877-1879, 1898, 1916, 1935, 1958-1959, 1959-1978, 1988, 1900, 1993, 2001 (aerial photo)
1:10,560	1884, 1899. 1900-1901, 1907-1908, 1921, 1935-1936, 1938, 1951
1:10,000	1964, 1969, 1974, 1980-1989, 1993, 1999, 2006, 2023

The earliest edition of the map dated 1877-1879 indicated the site to comprise an undeveloped field with a small possible outbuilding located on the southern boundary of the site. The building is likely to be associated with "Gwyn-fain" which was a collection of buildings located adjacent to the southwest corner of the site. Non-coniferous trees were indicated on the boundary of the site and a surface water feature flowed across the southeast corner and along the southern boundary. A less prominent surface water feature with a track beyond flowed along the northern boundary. An area of rough grassland/heath known as Black Hill was indicated to the south and southeast of the site. The surrounding areas were typically undeveloped at this time apart from Gwyn-fain.

The 1898 edition of the map indicated that the site had remained unchanged with Gwyn - faen Farm located adjacent to the southwest. The surface water feature was indicated to flow in a westerly direction along the southern edge of the site. A new property called Pleasant View had been constructed to the south of the site, but the other surrounding areas remained undeveloped. The area known as Black Hill was still located to the south and southeast.

The 1916 edition of the map indicated that the site and the immediate surrounding areas had remained relatively unchanged. The northern area of the field was now indicated to be covered with gorse. The surface water feature which flowed along the northern boundary was now more prominent.

The 1935 edition of the map indicated that the small building had been removed from the southern edge of the site. The surrounding areas to had remained unchanged.

3.0 SITE HISTORY (CONTINUED)

The 1958-1959 edition of the map indicated that the site remained undeveloped, and the gorse vegetation was no longer indicated within the northern area. The track along the northern boundary of the site was now more established and indicated to be a cart track. The immediate surrounding areas remained unchanged and largely undeveloped. Significant residential development had taken place approximately 220m to the east of the site.

The site remained undeveloped over the subsequent years and residential development continued in the vicinity of the site. During the 1970's development commenced across the area to the southeast formerly known as Black Hill. The development within this area had extended to the south of the site by the edition of the map dated 1993.

The 2001 aerial photo indicated the site to be undeveloped and grass covered with densely vegetated field boundaries. There was a slight change in vegetation within the northern area of the site. Undeveloped fields were located to the north and east, Gwynfaen Farm to the west and southwest and residential development to the south.

The 2005 aerial photo indicated a series of manholes located within the eastern area of the site. These manholes are known to be associated with large sewer pipes which cross the site on a north south orientation.

The 2013 aerial photo indicated the site had remained undeveloped apart from the manholes associated with the sewer. New residential development had commenced directly to the east of the southern corner of the site within Min Yr Aber.

The 2014 aerial photo indicated that the eastern edge of the site had been stripped of vegetation and a new public sewer had been constructed associated with the proposed adjacent development site.

The Phase 1 Gwynfaen development was indicated to have commenced to the east of the site by the aerial photo dated 2021. An area of disturbed ground associated with this development encroached across the eastern boundary of the northern part of the site.

The most recent aerial photo dated 2024 indicated the site to be grass covered with some areas of variable vegetation across the site. The areas of formerly disturbed ground were no longer evident. The Phase 1 development continued to the east.

4.0 SITE ENVIRONMENTAL SETTING

4.1 PHYSICAL SETTING

The site is located within a mixed rural and residential setting on the north western edge of Gorseinon.

The site is situated on sloping ground which falls to the west from an approximate maximum elevation of 30m along the eastern edge to an approximate minimum elevation of 14m AOD within the western area.

Existing surface water features flow to the west along the northern and southern boundaries of the site.

4.2 GEOLOGY

The 1:50,000 and 1:10,560 scale (Sheet No. SS 59 NE) geological map of the area indicates that the site to be underlain by the solid strata of the Grovesend Formation of the Carboniferous period. This bedrock typically comprises mudstones and siltstones, with well-developed coals and minor lithic Pennant sandstones There are no strata dips indicated in the vicinity of the site but based on the Generalised Vertical Section (GVS) the strata dip is likely to be shallow or sub-horizontal to the south and southwest. Further to the south of the site the strata dip would be expected to change to a northerly direction associated with the location of the axis of the Gorseinon Syncline located approximately 180m to the southeast of the site. The site is also located in between two north to south orientated faults namely the Gwili Fault located approximately 130m east and the Morlais Fault located approximately 280m to the west.

The bottom seam of the Gelli Group of Coals is indicated to conjecturally outcrop beneath the site on an approximately northwest to southeast orientation. The Gelli Group comprises a series of thin coal seams which the Generalised Vertical Section (GVS) indicates consists of nine thin coal seams spread over a depth of approximately 60m. Therefore, given the southerly to south westerly dip of the strata, these Gelli Group coal seams would underlie the site to the southwest of the outcrop at shallow depth. The top seam of the Gelli Group of Coals is indicated approximately 90m to the southwest and therefore this seam and some of the other upper seams in the group would not underlie the site.

The solid strata are indicated to be overlain by superficial deposits of Devensian Till of the Quaternary Period. These deposits generally comprise a poorly sorted and variable composition of clays, sands and gravel, with cobbles and boulders.

4.2 GEOLOGY (CONTINUED)

A geology map extract is presented on Figure 3.

Made ground is not anticipated to be widespread above the superficial deposits across the site. However, localised made ground/reworked material may be encountered in the vicinity of the sewer construction within the eastern area of the site, in the vicinity of the small building which was located on the southern edge of the site and also on field boundaries or in gateways associated with general agricultural use.

A summary of the anticipated geological succession is given below in Table 1.

Table 1: Summary of Anticipated Site Geology				
Geological unit	Horizon	Description		
Recent	Topsoil/subsoil with localised areas of made ground or reworked materials	Various materials		
Quaternary	Devensian Till	A poorly sorted and variable composition of clays, sands and gravel, with cobbles and boulders		
Carboniferous	Grovesend Formation	Mudstones and siltstones, with well-developed coals and minor lithic Pennant sandstones		

4.3 RADON

Information with regard to Radon Protective Measures is provided within the Envirocheck Report and the BGS Rado GeoReport as presented in Appendices A and B respectively. The reports state that the site is located within a lower probability area, as less than 1% of properties are above action level, and that therefore no radon protective measures would be necessary in the construction of new buildings within the site.

4.4 MINING

The site is located within a coal mining reporting area and therefore a Consultants Coal Mining Report has been obtained from the Coal Authority and a copy is included in Appendix C. An appraisal of the mining data and its significance is presented below.

4.4 MINING (CONTINUED)

The Coal Authority state that there are recorded workings beneath the site within one seam of coal at 385m depth. The workings are recorded within an unnamed seam and was last worked in 1942. The extraction thickness for the workings was 220cm. The Coal Authority Interactive Map indicates these workings are located beneath the eastern area of the site and extending off-site to the north, south and east. It is considered that the shallowest recorded workings at 385m would be at a depth that would not pose a subsidence risk at the surface. The shallowest recorded workings within an influencing distance of the site are within the Mynyddislwyn Lower Leaf seam (Swansea Four Feet) at 160m depth to the northeast.

The Coal Authority state that the probable unrecorded workings is "none" and there are no recorded shallow roadways. However, this does not mean that shallow workings or roadways do not exist, but rather any information to support this has not come into the possession of the Coal Authority. As discussed previously, the bottom seam of the Gelli Group of Coals is indicated to conjecturally outcrop beneath the site on an approximately northwest to southeast orientation. The Coal Authority state in the Consultants Report that this is a proven outcrop and name the seam locally as the Mynyddislwyn Big Rider. The Gelli Group of Coals would therefore underlie the site to the southwest of the outcrop at shallow depths and the potential for unrecorded workings within these coals should not be ruled out. Despite the Gelli Group of Coals being a series of thin coal seams, the bottom seam or seams are shown to have associated adits to the northwest of the site. These mine entries indicate that these seams have been mined near to the site.

The Coal Authority States that, with regards to mine entries that there are "none recorded within 100m of the enquiry boundary." The presence of unrecorded mine entries should not be ruled out.

The Coal Authority states that there are "no faults, fissures or breaklines recorded."

The Coal Authority states that there are no managed tips recorded within 500m of the site boundary. The latest guidance published by the Welsh Government and its partners include a Mining and Coal Tip Safety document, published on the 14th of November 2023, which assigns an identification number (UID), a category, and the immediate status of each disused coal tip in Wales. This document also confirms that there are no managed tips within an influencing distance of the site.

The Coal Authority has "not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994. There is no current Stop Notice delaying the start of remedial works or repairs to the property."

4.4 MINING (CONTINUED)

The Coal 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."

The Coal Authority states that no mine gas has been recorded within 500m of the enquiry boundary. However, a mine gas risk assessment should always be undertaken within coal mining areas in order to satisfy the guidelines within CL:AIRE document Good Practice for Risk Assessment for Coal Mine Gas Emissions, dated October 2021.

The site is located within a coal mining reporting area and based on the above guidelines a mine gas risk assessment should be undertaken. The initial desk-based assessment of the site will be utilised in order to develop the level of mine gas risk within the site.

There are many sources of gas in mine workings including desorption of gas from coal and rocks, oxidation of coal, decomposition of old wood (such as pit props) and acidic mine drainage reacting with carbonate in the rocks around the seam or shaft. These gases, if produced within the old workings, would need a viable pathway to the surface such as a shaft or fractured rock above the workings.

The desk study shows that the site is located within a high-risk development area associated with the coal outcrop beneath the site. There is potential for shallow unrecorded workings within the group of thin seams.

There are no mine entries located within 100m of the site boundary. It is therefore concluded that there are no viable pathways, via old shafts or adits, for any mine gas beneath, or within an influencing distance, of the site.

No faults, fissures or breaklines are known to affect the development site. It is therefore concluded that there are no viable pathways via fractured rock or fault zones.

Based on the desk-based research, the potential risk from coal mine gas emissions at the development site is considered below:

Figure 13.1 Decision Support Tool for Mine Gas Risk Assessment, included within CL:AIRE document Good Practice for Risk Assessment for Coal Mine Gas Emissions, dated October 2021 includes a flow chart to aid the risk assessment process and decision making.

Stage 1 of the flow chart asks if the site is within a Coal Authority defined Coal Mining Reporting Area. Since the site is located within a Coal Authority defined Coal Mining Reporting Area the flow chart then asks if all of the following statements are true:

4.4 MINING (CONTINUED)

- Mine entries >50m from site boundary
- Workings >150m depth
- No faults or other potential pathways connecting surface to deeper unflooded workings
- Outside area of past or probable shallow workings on Coal Authority viewer

Based on the information gained from the desk-based research, it is considered that the Stage 1 statements may be true based on the available information. However, there is potential for shallow unrecorded workings which need to be confirmed by drilling a series of rotary boreholes.

Intrusive works are recommended to confirm the level of gas risk. If shallow workings are found beneath the proposed development area, a programme of gas monitoring may become required, and a mine gas risk assessment should be undertaken based on the results. The recommended boreholes would also confirm the thickness of superficial deposits and whether or not the workings are flooded. All these factors would provide a basis for the mine gas risk assessment.

If no workings are found as part of the intrusive works, the site would be classified as being within a "Negligible Risk Zone" with no mine entries recorded, no fault features to form a pathway and with the site located outside the area of past or probable shallow workings. Based on a negligible risk classification, mitigation would not be required for the proposed residential development.

The Coal Authority Interactive Map indicates a linear high-risk development area associated with the outcrop of the coal seam on a northwest to southeast orientation beneath the site. Our desk-based research would extend the area of high-risk across the site to the southwest of the outcrop. The high-risk development zone is shown on Figure 4.

Based on the information provided by the geology maps and the information contained within the Consultants Coal Mining Report it is considered that there is a risk of unrecorded shallow workings beneath the site to the southwest of the coal outcrop.

An intrusive investigation in the form of deep rotary boreholes to a depth of 30m to 35m would be required to determine the level of risk to the development and to define the risk based on site specific data.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK

The Envirocheck report records the nearest surface water features to be located on site and flowing along the north western and southern edges. The OS Water Network Lines map indicates these features to be unnamed inland rivers. There are additional unnamed features to the west of the site which flow into unnamed tidal rivers before eventually flowing into the River Loughor which is located greater than 1km west of the site.

The Natural Resources Wales groundwater vulnerability map and aquifer database classifies the bedrock beneath the site as a Secondary 'A' Aquifer. Secondary 'A' Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

The Natural Resources Wales groundwater vulnerability map and aquifer database classifies the superficial deposits beneath the site as Secondary Aquifer-Undifferentiated. This classification is assigned in cases where it has not been possible to attribute either category A or B to a soil type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the material.

A perched water body may be encountered within any localised made ground or reworked materials or within the more granular superficial deposits. Vertical migration of groundwater is likely to be limited by the high clay content of the superficial soils.

It is considered possible that any existing site drainage could act as a pathway for potential surface contaminants.

There are eight effective discharge consents recorded within 250m of the site boundary. The nearest two are recorded 140m to the south where an unspecified discharge from a domestic property is received by the groundwater via an infiltration system. A further six Dwr Cymru sewage discharges (storm overflow) are recorded 234m to the south of the site received by a tributary of the River Loughor.

The Envirocheck Report states that there are no surface water or groundwater abstractions recorded within 1km of the site boundary.

Tables 2 and 3 present a summary of the hydrological features and key hydrogeological nature of the site.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

	Table 2: Summary of Site Hydrology					
Feature	Distance from site	Flow	Classification	Abstraction	Discharge	
Unnamed surface water features	North western and southern boundaries	South westerly and westerly	Inland rivers	No	River Loughor via additional unnamed features	
River Loughor	>1km west	Southerly and south westerly	Tidal river	No	Carmarthen Bay	
Surface run- off	On site	Flows into site drainage or into site	N/A	No	Not known	
Site Drainage	On site	Not known	N/A	No	Not known	

Table 3: Summary of Site Hydrogeology				
Geological Unit	Aquifer Classification	Aquifer Characteristics	Source Protection Zone	Groundwater Abstractions
Topsoil/subsoil and possible localised made ground/reworked material	Not classified	Highly variable permeability and porosity. Perched water may be present with variable flow directions.	No	None
Devensian Till	Secondary Aquifer Undifferentiated	Variable low to moderate permeability and porosity with intergranular flow possible. High clay content likely to restrict flow.	No	None
Grovesend Formation	Secondary A Aquifer	Variable moderate permeability mudstones and siltstones, with well-developed coals and minor sandstones capable of supporting water supplies at a local rather than strategic scale	No	None

The Groundwater Vulnerability map of the area indicates the secondary superficial aquifer to have a low vulnerability. The pollutant speed is low with well-connected fractures.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

The Natural Resources Wales Flood Risk map as presented within the Envirocheck Report indicates that the site is not at risk to extreme flooding from rivers or sea without defences.

The Natural Resources Wales Surface Water Flood Risk map as presented within the Envirocheck Report indicates that the majority of the site is not at a high-risk to surface water flooding (1 in 30-year flood extent). However, a high-risk areas are indicated along the northern and southern edges of the site associated with the surface water features which flow along these boundaries.

The BGS Groundwater Flooding Susceptibility map indicates the majority of the site to have limited potential for groundwater flooding to occur. It also indicates that the western area has potential for groundwater flooding of property situated below ground level and the southwest corner has potential for groundwater flooding to occur at surface.

4.6 LANDFILL SITES

The Envirocheck Report indicates that there are no BGS recorded, historical or local authority landfill sites or any licensed waste management facilities located within 500m of the site boundary.

There are no areas of potentially infilled land (non-water) recorded within 250m of the site boundary. The nearest area is located 277m to the south at the location of an old quarry.

There are two areas of potentially infilled land (water) located both on site and within 250m of the site boundary. The areas are located along the southeast edge of the site and 225m to the south at the location of former surface water features.

4.7 POTENTIAL CONTAMINATION

Previous Uses

The various activities in the vicinity of the site which may have resulted in ground or water resource contamination on this site are listed below in Tables 4 and 5. A summary of the potential contaminants can be found in the tables.

4.7 POTENTIAL CONTAMINATION (CONTINUED)

Table 4: Potential Contaminants				
Land Use: Generally, an undeveloped field until the present day				
Material/Process	Contamination/Hazard	Evidence		
Construction of a small building on the southern boundary of the site pre-1880's and subsequently removed by the 1930's. Construction may have caused localised ground disturbance or may have used imported materials of unknown origin.	Metals, semi metals, non- metals, PAH, asbestos	Historical maps		
Construction of sewers within the eastern area circa 2005 and subsequent additional sewer construction and disturbance associated with the Phase 1 residential development to the east between 2014 and 2021 which would have caused additional ground disturbance and may have utilised imported materials of unknown origin	Metals, semi metals, non- metals, PAH, asbestos	Aerial photos		
General farming activity and land uses with potential for disturbed ground or made ground on field boundaries or in gateways	Metals, semi metals, non- metals, PAH, asbestos	Anecdotal		

Existing Uses

The site is currently in use as agricultural land. The current uses would not add any additional contamination concerns.

Adjacent Site Uses

Table 5: Potential Contaminants: Adjacent Site Uses			
Potential Contamination Source	Boundary	Associated Contaminants and Hazards	
Undeveloped land	Northern and north western	No Potential Contaminants	
Buildings and access associated with Gwynfaen Farm	South western	No Potential Contaminants	
Undeveloped land and residential development	Southern	No Potential Contaminants	
Residential development and residential development site	Eastern	No Potential Contaminants	

4.8 OTHER ENVIRONMENTAL ISSUES

The Envirocheck Report indicates that Bury Inlet and Loughor Estuary is designated as a Site of Special Scientific Interest and Carmarthen Bay and Estuary is designated as a Special Area of Conservation. Both are located 114m to the southwest. There is no additional environmentally sensitive land located within 1km of the site boundary.

The Envirocheck Report indicates that there have been no pollution incidents to controlled waters recorded on site but twenty-two within 250m of the site boundary. The nearest incident was recorded 16m to the north and was a Category 3-Minor Incident involving rubble litter or solids from a blocked sewer. Another minor incident was recorded 44m to the southwest involving an unknown pollutant from a mechanical failure. The nearest Category 2-Significant Incident was recorded 178m to the southwest involving an unknown pollutant due to a mechanical failure. Additional incidents, both minor and significant were recorded between 178m to the southwest and 248m to the south involving pollutants such as crude sewage, mud/clay/soil, washery effluent, light oil, sullage, oils-diesel/petrol and stagnant water.

There have been no substantiated pollution incidents registered on site or recorded within 1km of the site boundary.

There have been no prosecutions relating to controlled waters or to authorised processes recorded on site or recorded within 1km of the site boundary.

It is not known if any invasive plants are present on site, but the boundaries are heavily vegetated. It would be prudent to undertake a full vegetation survey prior to development.

5.0 PRELIMINARY CONCEPTUAL SITE MODEL

5.1 RISK ASSESSMENT FRAMEWORK

In order to be consistent with current UK government policies and legislation, it is necessary to identify, assess, estimate, evaluate, and take appropriate action to deal with land contamination, in accordance with the procedures specified in the Environment Agency guidance Land Contamination Risk Management (LCRM) published in October 2020. This replaces the now withdrawn 'Model Procedures for the Management of Land Contamination CLR-11' (Environment Agency 2004).

The risk assessment process is designed to provide a reasoned, structured and pragmatic mechanism for the identification of any potential human health and controlled waters risks associated with land contamination and where necessary to develop a robust remediation strategy to ensure protection of the sensitive receptors (human health of future residents, controlled waters, etc).

In accordance with LCRM, the term 'land contamination' is defined as:

- All land affected by contamination land that might have contamination present which may, or may or may not, meet the statutory definition of contaminated land,
- Land determined as contaminated land under Part 2A of the Environmental Protection Act 1990.

LCRM provides a tiered approach to risk assessment, comprising a preliminary risk assessment (including the development of an initial conceptual site model), a generic quantitative risk assessment and a detailed quantitative risk assessment. For each tier of risk assessment, the following steps must be followed:

- 1. Identify the hazard establish contaminant sources,
- 2. Assess the hazard use a source-pathway-receptor linkage approach to determine if there is potential for unacceptable risk,
- 3. Estimate the risk predict what degree of harm or pollution may result and how likely it is to occur, and
- 4. Evaluate the risk decide whether a risk is unacceptable.

LCRM also provides definitions of the following terms:

 Hazard – a property or situation that in particular circumstances could lead to harm or pollution,

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

- Risk a combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence,
- Risk assessment the formal process of identifying, assessing and evaluating the health and environmental risks that may be associated with a hazard,
- Risk management the formal process to identify, assess and determine the risks, and to select and take action to mitigate them.

The three essential elements to any risk are defined by LCRM as follows:

- A contaminant, or pollutant, that is in, on, or under the land and that has the potential to cause harm, or pollution (Source)
- A route by which a receptor is, or could be affected by a contaminant (Pathway)
- A receptor, i.e. something that could be adversely affected by a contaminant, for example a person, controlled waters, an organism, an ecosystem, or Part 2A receptors such as buildings, crops or animals (Receptor).

In order for there to be a potential risk, all three of the above elements must be present. If there is a source of contamination and a receptor (for example a resident or site user), then there is only a potential risk if there is a pathway linking the two. Such an active pathway is known as a relevant pollutant linkage. It is possible for the same contaminant to be linked to a receptor via a number of pathways, and hence it is important that all relevant pollutant linkages, to both human health and controlled waters, are separately identified on a site in order that a comprehensive conceptual model can be formed and ultimately a robust remediation strategy designed.

Current practice during Generic Quantitative Risk Assessment of land affected by contamination is to use generic soil screening values based on the appropriate proposed end use. These usually comprise risk-based Soil Guideline values (SGVs) or Generic Assessment Criteria (GACs) derived by the Environment Agency's Contaminated Land Exposure Assessment Model (CLEA). The SGVs and the supporting technical guidance were developed in order to assist in the assessment of long-term risk to human health from the exposure to contaminated soils.

Revised Statutory Guidance, published in 2012, to support Part 2A of the Environmental Protection Act 1990, introduced a new four category system for classifying land under Part 2A. Category 1 includes land where the level of risk is clearly unacceptable and Category 4 includes land where the level of risk posed is considered to be acceptably low. Under Part 2A, land would be determined as contaminated if it falls within Categories 1 or 2.

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

The revised Part 2A Statutory Guidance was accompanied by an Impact Assessment that identified a role for new 'Category 4 Screening Levels' (C4SLs) that would provide a simple test for determining when land is suitable for use and definitely not contaminated land. A Policy Companion Document including the C4SLs was published in March 2014 (England) and May 2014 (Wales).

The C4SLs have been based on the CLEA methodology and derived using the CLEA model, with modified toxicological and exposure parameters. To date, C4SLs have been released for six substances (arsenic, cadmium, chromium (VI), lead, benzo(a)pyrene and benzene).

The C4SLs have been derived on the assumption that where they exist, they will be used as generic screening criteria within generic quantitative risk assessment.

Following publication of the C4SLs, Land Quality Management (LQM), in conjunction with the Chartered Institute for Environmental Health (CIEH) released Suitable 4 Use Levels (S4ULs) in January 2015.

The S4ULs have been derived in accordance with UK legislation, and using a modified version of the Environment Agency's CLEA software. As such, the S4ULs are based on the concept of minimal or tolerable risk as described in Human Health Toxicological Assessment of Contaminants in Soil (Science Report SR2, Environment Agency 2009a).

S4ULs have been derived for a wider number of substances.

In addition to the existing SGVs, C4SLs and S4ULs, Atkins ATRISK^{soil} also provide a set of Soil Screening Values. These are currently intended to be used in conjunction with SGVs, although they intend to update these values in line with the C4SLs in due course.

We have reviewed all sets of values and intend to use the most appropriate assessment criteria as Tier 1 screening values in the first instance. Where a published S4UL is available, and considered appropriate, this will be used in the first instance.

5.2 CONCEPTUAL MODEL FRAMEWORK

The preliminary stage of the risk assessment process is to develop and define a conceptual site model, based on the desk study and any existing site investigation data. This is used to establish any potential contaminant sources, identify existing and future receptors and assess if there are any potentially active pathways by which a potential risk may be present.

5.2 CONCEPTUAL MODEL FRAMEWORK (CONTINUED)

The preliminary conceptual site model will be developed and refined as site specific data is gathered, such as actual ground conditions and chemical data, resulting in a more robust conceptual understanding of the site.

5.3 CRITICAL SENSITIVE RECEPTOR – HUMAN HEALTH

The proposed redevelopment of the site is for a residential end use. Therefore, the critical sensitive receptor from a human health perspective is an on-site residential receptor.

In accordance with S4UL/C4SL and CLEA guidance for a standard residential with homegrown produce scenario, the critical sensitive receptor for a residential end use risk assessment is a female child, with exposure from 0 to 6 years.

The standard residential with homegrown produce end use conceptual model defined by S4UL/C4SL and CLEA is assumed to be suitable for the purposes of this assessment.

5.4 CRITICAL SENSITIVE RECEPTOR – CONTROLLED WATERS

Based on the proposed redevelopment of the site for a residential end use, and the findings of the desk study, the critical sensitive receptor from a controlled water perspective is groundwater within the Secondary 'A' Aquifer of the Grovesend Formation.

By considering groundwater as the critical sensitive receptor for controlled waters, the groundwater/hydrogeological risk assessment will also be protective of the nearby surface water features, particularly the ones which flow along the southern and north western boundaries.

5.5 POTENTIAL CONTAMINANT SOURCES

As identified in the desk study, the site has remained essentially undeveloped over the years apart from a small building located on the southern boundary that was no longer present by 1935. There is likely to be disturbed ground within the eastern area of the site associated with the sewer construction and works associated with the adjacent site. There is also potential for there to be localised made ground associated with general farming activity particularly on field boundaries or in gateways.

The potential types of contaminants of concern are listed below:

5.5 POTENTIAL CONTAMINANT SOURCES (CONTINUED)

- Metals, semi-metals, and inorganics within the shallow made ground,
- Polyaromatic hydrocarbons (PAH) within the shallow made ground,
- Asbestos within the shallow made ground.

Additionally, it would be prudent to check topsoil/subsoil for reuse in gardens and landscaped areas.

5.6 POTENTIAL EXPOSURE PATHWAYS

Potential exposure pathways for the critical receptors (both human health and controlled waters) are listed below:

- Dermal contact with soil and/or soil derived dust,
- Ingestion of soil and/or soil attached to home-grown produce,
- Ingestion of home-grown produce,
- Inhalation of soil derived dust,
- Inhalation of vapours indoor and outdoor air,
- · Leaching of contaminants from made ground to groundwater,
- Transportation of contaminants within groundwater.

In addition, the following exposure pathways have also been considered:

- Ground gas generation and migration,
- Building materials durability.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL

A preliminary conceptual exposure model has been developed for the site. This is based on the findings of the desk study and historical review and includes all potential sources, pathways and receptors that may be present on site. Those that have been identified as being potentially active require further investigation in the form of sampling and testing of soils and groundwater, followed by appropriate risk assessment.

The preliminary conceptual exposure model will be reviewed and refined following the completion of the site works and laboratory testing.

The preliminary conceptual exposure model is presented below in Table 6.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL (CONTINUED)

Table 6: Preliminary Conceptual Exposure Model					
Source Origin Contaminant		Receptor	Pathway	Potentially Active Pathway?	
Made Ground of unknown origin	Metals, semi-metals, non-metals, PAH,	Resident – human health	Dermal Contact with made ground/dust	<i>'</i>	
and historical land uses and existing natural soils	asbestos		Ingestion of soil and/or soil attached to home-grown produce	√	
			Ingestion of home-grown produce	√	
			Inhalation of dust	✓	
			Inhalation of vapours – indoor/outdoor	√	
	Metals, semi-metals, inorganics, PAH	Groundwater quality	Leaching from made ground	√	
	Metals, semi-metals, inorganics, PAH	Surface water quality	Transportation within groundwater	~	
Made Ground of unknown origin and natural ground	pH and water- soluble sulphate	Building Materials Durability	Direct contact	✓	
Ground and Mine Gas – organic, gas producing materials present within site or adjacent to the site	Methane, carbon dioxide	Human health	Accumulation of gases in confined spaces, and/or migration off site, leading to asphyxiation, or risk of explosion	Significant thickness of gas producing materials are not anticipated, no off-site sources. No radon protective measures required. Possible mine gas risk	

6.0 ANTICIPATED GROUND CONDITIONS

Based on the geological map data, historical records and available site investigation data, the following general succession of superficial deposits and underlying solid geology beneath the site is anticipated:

Recent

(Various) Topsoil/subsoil with potential for localised areas of made ground

or reworked materials

Quaternary

(Devensian Till) A poorly sorted and variable composition of clays, sands and

gravel, with cobbles and boulders

Carboniferous

(Grovesend Mudstones and siltstones, with well-developed coals and minor

Formation) lithic Pennant sandstones

Topsoil/subsoil would be anticipated across the site. Localised areas of made ground or reworked material could be present within the eastern area of the site associated with the sewer construction and potentially on the southern boundary associated with the former historic building. Allowances should also be made for the potential for made ground to be present on field boundaries or in gateways associated with farming activity.

The superficial deposits are known to be variable in nature but typically comprising clays, sands and gravels. Available information from the adjacent site indicates that the superficial deposits are likely to extend to a depth of between approximately 4m and 5m below ground level.

It is unlikely that bedrock would be encountered within shallow excavations

Localised seepages of perched groundwater could be encountered within any made ground or reworked materials or within the more granular superficial shallow soils. Groundwater would be at greater depth within the weathered bedrock.

7.0 SITE ASSESSMENT

7.1 ENVIRONMENTAL RISK ASSESSMENT

This assessment takes due regard of Contaminated Land Guidance issued by DEFRA and RICS. The methods used follow a risk-based approach with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' pollutant linkage concept set out in the Environment Protection Act 1990.

Although the risk presented in the following tables and above is descriptive, it is correlated to a numerical chance of occurrence. Therefore, the range and percentage chance of occurrence is given in order that the reader may assess the datum for the risk level. Although the percentage chance is quoted, this is still a subjective evaluation and is not prepared by probabilistic determination. Therefore, the chance of occurrence is a value judgement and not a numerical calculation. The evaluation is a simple qualitative risk assessment, which cannot make a judgement on the probability of occurrence or level of contamination. The latter two aspects require site specific information.

Reference to risk classifications is made according to the following definitions.

Low Risk	It is unlikely that the issue will arise as a liability/cost.
Medium Risk	It is possible that the issue could arise as a liability/cost. Further work is needed to clarify the risk and consequences.
High Risk	It is likely that the issue will arise as a liability/cost.

In consideration of the information gathered and presented in this report the following risk appraisal is considered appropriate.

Table 7: Environmental Risk Assessment				
Issue	Risk Category	Comments		
Site sensitivity				
Sensitivity of site location	Low	Site is not located within an environmentally sensitive area		
Environmental sensitivity of adjacent land uses	Low/medium	Site situated in a mainly undeveloped or residential area but with surface water features flowing along the southern and northern boundaries		

7.1 ENVIRONMENTAL RISK ASSESSMENT (CONTINUED)

Table 7: Environmental Risk Assessment (Continued)				
Issue	Risk Category	Comments		
Contamination potential				
Potential for significant on-site contamination	Low/medium	Site has been historically mainly undeveloped and is currently		
Potential for contaminants migrating off from the site	Low	undeveloped Potential for localised made ground/reworked materials in the		
Potential for contaminants migrating onto the site	Low	ground/reworked materials in the vicinity of the former building, within the eastern area associated		
Potential for other environmental issues to give rise to liabilities	Low/medium	with the sewer construction and in gateways and on field boundaries. Not anticipated to be significant Mine gas protection measures may be required if shallow workings are found to be present		
Environmental Consequences				
Risk of pollution of controlled waters	Low	Any made ground encountered		
Risk of damage to future property	Low	beneath the site is not anticipated to be significant and likely to be		
Risk of harm to human health	Low	associated with the historic site uses		
Business Consequences				
Risk of liability for owner	Low	Previous and current land use not		
Likelihood of designation as Contaminated Land under EPA 1990	Low	likely to produce significant contaminants but hot spots/areas		
Risk of site value and/or saleability being affected	Low	could be present if made ground is encountered		
Overall Risk		Low locally low/medium		

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS

A summary of commonly occurring geotechnical hazards is given in Table 8, together with an assessment of whether the site may be affected by each of the stated hazards. This information would be required prior to any future construction works.

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

				T
	Hazard Status			
Issue (excluding contamination issues)	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	Engineering considerations
Shrinkable clays		✓		Special requirements for foundation and floor design near trees/hedgerows
Filled and made ground		✓		Unlikely to be widespread but if present, would require assessment followed by potential removal, encapsulation or remediation
Highly compressible and low bearing capacity soils including peat and soft clay		✓		Allowances should be made for the removal and replacement of any soft spots/areas
Silt rich soils susceptible to rapid loss of strength in wet conditions	✓			All formations should be protected from wet weather and site traffic
Adverse ground chemistry (including expansive slags, weathering of sulphides to sulphates)			✓	
Combustibility potential			✓	
Solution features			✓	
Evaporite dissolution features and subsidence			✓	
Ground subject to peri-glacial valley cambering with gulls present			✓	
Sudden lateral changes in ground conditions		✓		Potential for differences in founding levels due to the variability of the superficial deposits
Existing sub structures (e.g. foundations and pits)	√			Care should be taken in the eastern area of the site due to the known presence of the sewers
Ground subject to vibration			✓	

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 8: Summary of Potential Geotechnical Hazards (Continued)						
	Hazard Status					
Issue (excluding contamination issues)	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	Engineering considerations		
Underground mining (shallow)		√		Allowances should be made for further investigation due to the potential for shallow unrecorded workings. The use of additional reinforcement to span voids or drilling and grouting remediation works prior to construction may be required		
Mine entries (shafts and adits, bell pits)		✓		Possibility of unrecorded mine entries so a watching brief during site works is recommended		
Ground subject to or at risk of coastal or river erosion		√		Streams flow along the northern and southern boundaries. Care should be taken in the vicinity of these features including measures to protect the riverbanks from the construction works as deemed necessary.		
Ground subject to, or at risk from landslips or slope instability		√		The site is located on sloping ground, but slope instability is not anticipated. Cut and fill works will be required to create appropriate development plateaux. These works should be appropriately designed and validated		
High water table (including waterlogged ground)		√		Any water inflows should be dealt with using conventional pumping techniques. Potentially wet or softer ground may be present on the northern and southern edges of the site in the vicinity of the surface water features or within the lower lying western area of the site.		

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 8: Summary of Potential Geotechnical Hazards (Continued)							
	Hazard Status						
Issue (excluding contamination issues)	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	Engineering considerations			
Culverted watercourses			√				
Rising groundwater table due to diminishing abstraction in urban areas or cessation of deep mining			✓				

8.0 SITE INVESTIGATION PROPOSALS

Prior to redevelopment of the site, a comprehensive intrusive site investigation would be required, over the entire site, in order to facilitate a detailed technical and financial appraisal. This would enable the foundation and hardstanding design for any proposed development to be developed using specific data on the ground conditions and enable more accurate costings to be made.

Investigation works should give consideration to the following:

- Coal mining legacy risks associated with shallow underground mine workings and mine gas,
- Foundation and floor slab design,
- Excavation stability design,
- Remediation requirements,
- Soil Infiltration Potential,
- Groundwater control.

In particular, the principal geoenvironmental and geotechnical issues to be addressed are:

- The presence of shallow underground mine workings,
- Foundation strata level, strength, compressibility, and chemical characteristics,
- Presence or absence of shrinkable clays,
- The extent of any ground contamination, including potential asbestos in the ground,
- The potential for mine gas to be present beneath the site.

Investigation techniques to be adopted should include:

- Trial pits could be used to examine the shallow ground conditions and include BRE
 365 compliant soil infiltration testing within selected trial pits,
- Rotary probeholes to examine the deeper ground conditions including the location, depth and condition of any underlying coal seams,
- Laboratory chemical testing of any made ground and natural soils to determine soil chemistry to include a range of organic and inorganic contaminants and screening for asbestos,
- Laboratory geotechnical testing to determine soil plasticity.

Further works in the form of deeper boreholes may become required if competent ground is not encountered at shallow depths or if significant made ground or organic material is encountered that would require a programme of gas monitoring.

8.0 SITE INVESTIGATION PROPOSALS (CONTINUED)

Permission would need to be obtained from the Coal Authority, prior to undertaking any physical site investigation that may intersect coal seams/associated mine workings.

APPENDIX A

ENVIROCHECK REPORT



Envirocheck® Report:

Datasheet

Order Details:

Order Number:

331303750_1_1

Customer Reference:

14294/LP

National Grid Reference:

257790, 199350

Slice:

Α

Site Area (Ha):

3.53

Search Buffer (m):

1000

Site Details:

Gwynfaen Farm (Phase 2) Gorseinon Swansea SA4 4BF

Client Details:

MR H Pritchard Integral Geotechnique Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX



Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	39
Hazardous Substances	-
Geological	42
Industrial Land Use	46
Sensitive Land Use	51
Data Currency	52
Data Suppliers	58
Useful Contacts	59

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 2024. 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 Environme 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

Agency/Natural Resolutes waters and Natural England, and mist not be reproduced in whole of in part by protocopying of 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 2024. © Natural Resources Wales & United Kingdom Research and Innovation 2024.

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 2024. 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		9	5	21
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11	Yes			
Pollution Incidents to Controlled Waters	pg 11		22	1	7
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 17				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 17	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 17		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 17		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 17		Yes	n/a	n/a
OS Water Network Lines	pg 18	3	23	24	138



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 39				1
Historical Landfill Sites	pg 39				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 39				2
Local Authority Landfill Coverage	pg 40	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 40			1	6
Potentially Infilled Land (Water)	pg 40	1	1	8	6
Registered Landfill Sites	pg 41				1
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 42	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 42	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 43				6
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 44	Yes	n/a	n/a	n/a
Mining Instability	pg 44	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 44	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 45		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 46			4	22
Fuel Station Entries					
Points of Interest - Commercial Services	pg 48			5	1
Points of Interest - Education and Health	pg 48				5
Points of Interest - Manufacturing and Production	pg 49				6
Points of Interest - Public Infrastructure	pg 49			7	4
Points of Interest - Recreational and Environmental	pg 50		1		5
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					
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	pg 51		1		
Special Areas of Conservation	pg 51		1		
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: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	0	1	257700 199300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	0	1	257800 199348
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	257700 199348
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	257750 199348
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (NW)	0	1	257787 199348
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW	0	1	257750 199300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) A13SW (W)	27	1	257650 199350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	28	1	257800 199200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	30	1	257787 199200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	80	1	257787 199150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	128	1	257800 199100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	129	1	257850 199100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE	178	1	257800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S) A13NE	188	1	199050 257950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	229	1	199650 257850 199000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S) A8NE (S)	231	1	257900 199000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	232	1	257450 199400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	240	1	257787 199750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	273	1	257400 199350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	280	1	257400 199400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE	291	1	257787 199800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N) A12NE (W)	296	1	257400 199450



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	316	1	257700
	BGS Groundwater Flooding Susceptibility	(N)			199800
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	330	1	257900 198900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	348	1	257750 199850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	362	1	257450 199650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW	362	1	257700 199850
	BGS Groundwater Flooding Susceptibility	(N)			199630
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	373	1	257400 199600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	382	1	257550 199800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW	397	1	257450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW) A12NE	401	1	199700 257400
	Flooding Type. Totellia for Groundwater Flooding of Floperty Situated Below Ground Level	(NW)	401	'	199650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	401	1	257500 199750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	410	1	257700 199900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW	427	1	257650
	DOO O I Flor Pro O	(N)			199900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	436	1	257950 198800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	436	1	257500 199800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW	471	1	257450
	BGS Groundwater Flooding Susceptibility	(NW)			199800
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	479	1	257850 198750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	483	1	257700 198750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	490	1	257800 200000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	491	1	257787 200000



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	David Edwards Domestic Property (Single) Pentre Bach Farm Gwynfe Road Lougho, Gwynfe Road Loughor Swansea Natural Resources Wales Not Given BF0112001 1 23rd April 1975 23rd April 1975 Not Supplied Not Supplied Into Land Groundwater Via Infiltration System Effective Located by supplier to within 100m	A13SW (S)	140	2	257700 199100
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	David Edwards Domestic Property (Single) Pentre Bach Farm Gwynfe Road Lougho, Gwynfe Road Loughor Swansea Natural Resources Wales Not Supplied Bf0112001 Not Supplied 23rd April 1975 23rd April 1975 Not Supplied Not Supplied Into Land Groundwater Via Infiltration System Effective Located by supplier to within 100m	A13SW (S)	140	2	257700 199100
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Mr David Edwards Domestic Property (Single) Pentre Bach Farm Gwynfe Road Lougho, Gwynfe Road Loughor Swansea Natural Resources Wales Not Supplied Bf0095801 1 12th November 1973 12th November 1973 Not Supplied Unspecified Into Land To Land Nr. River Loughor Consent expired Located by supplier to within 100m	A13SW (S)	140	2	257700 199100
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Heol Pentre Bach Cso Gorseinon, Swansea, Wales Natural Resources Wales Not Supplied Bp0316901 1 27th February 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Trib Of Loughour Estuary Effective Located by supplier to within 10m	A8NW (S)	233	2	257710 199002



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Heol Pentre Bach Cso Gorseinon, Swansea, Wales Natural Resources Wales Not Supplied Bp0316901 1 27th February 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Trib Of Loughour Estuary Effective Located by supplier to within 10m	A8NW (S)	233	2	257710 199002
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Borough Road Cso Gorseinon Swansea, Nr 10 Borough Rd, Loughor, Swansea, Wales, Sa4 6rp Natural Resources Wales Not Supplied Bp0317001 Not Supplied 11th October 2019 11th October 2019 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Unnamed Tributary Of The Loughor Estuary Via Surface Water Sewer Effective Located by supplier to within 10m	A8NW (S)	234	2	257710 199001
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Heol Pentre Bach Cso Gorseinon, Nr 7 Heol Pentre Bach, Swansea, Sa4 4za Natural Resources Wales Not Supplied Bp0316901 Not Supplied 21st August 2019 21st August 2019 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Unnamed Tributary Of The Loughor Estuary Via Surface Water Sewer Effective Located by supplier to within 10m	A8NW (S)	234	2	257710 199001
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Borough Road Cso Gorseinon Swansea, Gorseinon, Wales Natural Resources Wales Not Supplied Bp0317001 1 31st March 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Unnamed Trib Of River Loughour Effective Located by supplier to within 10m	A8NW (S)	234	2	257710 199001



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Borough Road Cso Gorseinon Swansea, Gorseinon, Wales Natural Resources Wales Not Supplied Bp0317001 1 31st March 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Unnamed Trib Of River Loughour Effective Located by supplier to within 10m	A8NW (S)	234	2	257710 199001
3	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Cso Brynafon Road, Nr 2 Clos Brynafon, Gorseinon, Sa4 4bf Natural Resources Wales Not Supplied Bw2301701 Not Supplied 15th July 2022 15th July 2022 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Unnamed Tidal Tributary Of The Loughour Estuary Via Surface-Water Sewer Effective Located by supplier to within 10m	A13SW (SW)	252	2	257470 199115
3	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Not Supplied Cso Brynafon Road Gorseinon Swansea, Combined Sewer Overflow, Brynafon Road, Gorseinon Natural Resources Wales Not Supplied Bw2301701 2 14th December 2004 14th December 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Unnamed Stream To Loughor Estu Effective Located by supplier to within 10m	A13SW (SW)	252	2	257470 199115
3	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Not Supplied Cso Brynafon Road Gorseinon Swansea, Combined Sewer Overflow, Brynafon Road, Gorseinon Natural Resources Wales Not Supplied Bw2301701 2 14th December 2004 14th December 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Unnamed Stream To Loughor Estu Effective Located by supplier to within 10m	A13SW (SW)	252	2	257470 199115



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	_	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. Gwyn Faen Loughor (Soc 4). Natural Resources Wales River Loughor BW2301701 1 24th January 1967 24th January 1967 13th December 2004 Unspecified Not Supplied Unnamed Stream To Loughor Estu New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A13SW (SW)	258	2	257460 199118
4	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Llannant Stw Natural Resources Wales River Loughor BC0018601 1 25th May 1983 25th May 1983 1st April 2005 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Loughor Estuary New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A12NE (W)	500	2	257200 199500
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. Near Loughor Crossroads Natural Resources Wales Not Supplied Bw2301101 2 8th September 2010 8th September 2010 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Loughor Estuary Surrendered Located by supplier to within 10m	A8SE (S)	609	2	257890 198620
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. Near Loughor Crossroads Natural Resources Wales Not Supplied Bw2301101 2 8th September 2010 8th September 2010 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Loughor Estuary Surrendered Located by supplier to within 10m	A8SE (S)	609	2	257890 198620



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. Near Loughor Crossroads Natural Resources Wales River Loughor BW2301201 1 20th October 1989 20th October 1989 31st March 2004 Unspecified Not Supplied Parish Boundary Stream Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A8SE (S)	609	2	257890 198620
5	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. Near Loughor Crossroads Natural Resources Wales River Loughor BW2301101 1 20th October 1989 20th October 1989 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Parish Boundary Stream New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A8SE (S)	609	2	257890 198620
6	-	Stevens M Livestock Production, Food Production Llannant Farm Penyrheol Gorseinon S, Penyrheol Gorseinon Swansea Natural Resources Wales River Loughor Bd0025901 1 20th May 1975 20th May 1975 13th February 1992 Unspecified Not Supplied 6 Inch Concrete Pipe To 12 Inch Culver Consent expired Located by supplier to within 10m	A18NW (N)	615	2	257650 200100
7	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea Settled Storm, Llanant Wwtw, Llanant Rd, Gorseinon, Swansea, Sa4 4gd Natural Resources Wales Not Supplied Bp0341501 Not Supplied 1st May 2020 1st May 2020 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Estuary Un-Named Tributary Of The Loughor Estuary Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales Not Supplied Bc0018601 Not Supplied 25th May 2017 25th May 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Not Supplied Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales Not Supplied Bc0018601 6 25th May 2017 25th May 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales Not Supplied Bc0018601 Not Supplied 25th May 2017 25th May 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales River Loughor Bc0018601 5 21st July 2010 21st June 2010 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales River Loughor Bc0018601 4 1st January 2010 26th June 2009 20th June 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales River Loughor Bc0018601 3 31st January 2006 31st January 2006 31st January 2009 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales Not Supplied Bp0341501 1 31st March 2005 23rd March 2005 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Estuary Un-Named Trib Loughor Estuary Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales River Loughor Bc0018601 2 31st March 2005 23rd March 2005 30th January 2006 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Unnamed Trib Of Loughor Est'Y Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Llannant Wwtw Llannant Road Swansea, Llannant Road, Sa4 4nd Natural Resources Wales Not Supplied Bp0341501 1 31st March 2005 23rd March 2005 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Estuary Un-Named Trib Loughor Estuary Effective Located by supplier to within 10m	A17SE (NW)	617	2	257336 199894
8	1	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. 100 Yds U/S Of Broadoak C Natural Resources Wales BURRY INLET INNER BW2301401 1 24th November 1966 24th November 1966 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River River Loughor Surrendered Located by supplier to within 100m	A7NW (SW)	825	2	257050 198724
8	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Swo. 100 Yds U/S Of Broadoak C Natural Resources Wales BURRY INLET INNER Bw2301401 1 24th November 1966 24th November 1966 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River River Loughor Surrendered Located by supplier to within 10m	A7NW (SW)	825	2	257050 198724
8	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Ben Hughes Foundry Cso, Nr 5 Bwlch Road, Loughor, Swansea, Sa4 6sa Natural Resources Wales Not Supplied Bp0315201 Not Supplied 26th August 2022 26th August 2022 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Loughor Estuary Effective Located by supplier to within 10m	A7NW (SW)	854	2	257026 198708



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Ben Hughes Foundry Cso Opp Rev Jame, Opp Reverend James Public House, Loughour, Swansea Natural Resources Wales BURRY INLET INNER Bp0315201 1 27th February 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Loughour Estuary Effective Located by supplier to within 10m	A7NW (SW)	854	2	257026 198708
8	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: The consent of the consent o	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Ben Hughes Foundry Cso Opp Rev Jame, Opp Reverend James Public House, Loughour, Swansea Natural Resources Wales BURRY INLET INNER Bp0315201 1 27th February 2004 27th February 2004 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Loughour Estuary Effective Located by supplier to within 10m	A7NW (SW)	854	2	257026 198708
9	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Water Supply Grid Frampton Chlor.Overflow Natural Resources Wales Not Supplied Bp0181701 1 2nd October 1989 2nd October 1989 14th March 1994 Unspecified Not Supplied To Land Consent expired Located by supplier to within 100m	A19SE (NE)	958	2	258700 199900
	Nearest Surface Wa	ter Feature	A13NW (NW)	0	-	257720 199407
10	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Running Through, Gwynfe Environment Agency, Welsh Region Rubble/Litter Or Solids Blocked Sewer 17th June 1996 28741 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A13NE (N)	16	3	257800 199500



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Council Premises Queensgate Environment Agency, Welsh Region Unknown Mechanical Failure 11th June 1992 4785 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A13SW (SW)	44	3	257700 199200
12	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	o Controlled Waters Not Given Location Description Not Available Environment Agency, Welsh Region Unknown Inadequate Design/Capacity 14th May 1992 4621 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A13SE (S)	132	3	257800 199100
13	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Council Premises Queensgate, Housing Estate Pumping Station Environment Agency, Welsh Region Unknown Mechanical Failure 1st June 1992	A13SW (SW)	178	3	257600 199100
13	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	o Controlled Waters Not Given Gwynfe Road Environment Agency, Welsh Region Crude Sewage Not Supplied 19th July 1991 1071 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier o within 100m	A13SW (SW)	183	3	257600 199095
14	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	o Controlled Waters Water Company Sewage: Other Gwynfe Road, LOUGHOR Environment Agency, Welsh Region Mud/Clay/Soil Not Supplied 5th October 1991 1606 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A13SW (SW)	184	3	257500 199200
14	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	o Controlled Waters Not Given Location Description Not Available Environment Agency, Welsh Region Crude Sewage Not Supplied 17th November 1991 1624 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier in Not Available Located by supplier to within 100m	A13SW (SW)	186	3	257500 199195



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Water Company Sewage: Storm Overflow Crossing Gwynfe Road, LOUGHOR Environment Agency, Welsh Region Washery Effluent Not Supplied 21st February 1991 2448 Not Given Not Given Spillage Category 2 - Significant Incident Located by supplier to within 100m	A13SW (S)	188	3	257700 199050
16	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	D Controlled Waters Land Adjacent 9 Gwynfe Road, LOUGHOR Environment Agency, Welsh Region Light Oil Not Supplied 27th July 1991 1098 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A8NW (S)	231	3	257705 199005
16	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	c Controlled Waters Land Queensgate Environment Agency, Welsh Region Sullage Not Supplied 31st July 1991 1099 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A8NW (S)	232	3	257700 199005
16	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given The River Environment Agency, Welsh Region Oil Diesel (Including Agricultural) Not Supplied 15th January 1996	A8NW (S)	233	3	257695 199005
16	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	D Controlled Waters Not Given Pentrebach Farm, LOUGHOR Environment Agency, Welsh Region Unknown Not Supplied 3rd October 1991 1617 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	236	3	257705 199000
16	Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Miscellaneous Premises: Surface Runoff Bach Farm, Queensgate, PENTRE Environment Agency, Welsh Region Oils - Petrol Weather 8th April 1992 4050 Not Given Not Given Runoff Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	237	3	257700 199000



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Land Location Description Not Available Environment Agency, Welsh Region Unknown Not Supplied 27th July 1991 1321 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	238	3	257695 199000
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Down Stream Of Queensgate, Village Gwynfe Road, LOUGHOR Environment Agency, Welsh Region Sewage - Treated Effluent Not Supplied 24th February 1992 3692 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A8NW (S)	241	3	257705 198995
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Council Premises 50 Yards Up Stream Of, Gwynfe Road Environment Agency, Welsh Region Agricultural: Silage Liquor Mechanical Failure 28th June 1992 4813 Not Given Not Given Overflow Category 2 - Significant Incident Located by supplier to within 100m	A8NW (S)	242	3	257700 198995
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Location Description Not Available Environment Agency, Welsh Region Stagnant Water Not Supplied 7th October 1991 1578 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	243	3	257695 198995
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Council Premises Location Description Not Available Environment Agency, Welsh Region Unknown Weather 20th April 1992 4518 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	245	3	257705 198990
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Location Description Not Available Environment Agency, Welsh Region Unknown Not Supplied 3rd October 1991 1617 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NW (S)	248	3	257695 198990



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Road (Lost Load) Location Description Not Available Environment Agency, Welsh Region Light Oil Accidental Spillage/Leakage 19th May 1992 4624 Not Given Not Given Spillage Category 2 - Significant Incident Located by supplier to within 100m	A13SW (SW)	239	3	257505 199095
17	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Through Queensgate Estate Environment Agency, Welsh Region Unknown Weather 10th March 1992 3934 Not Given Not Given Runoff Category 3 - Minor Incident Located by supplier to within 100m	A13SW (SW)	239	3	257500 199100
17	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Road (Lost Load) Location Description Not Available Environment Agency, Welsh Region Crude Sewage Accidental Spillage/Leakage 19th May 1992 4624 Not Given Not Given Spillage Category 2 - Significant Incident Located by supplier to within 100m	A13SW (SW)	242	3	257500 199095
18	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Pencefnarda Farm, Down Alongside Access Road Environment Agency, Welsh Region Farm Effluent/Slurry Tributary Of River Loughor; Direct Introduction 11th February 1998 34754 Not Given Not Given Inadequate Design/Capacity Category 3 - Minor Incident Located by supplier to within 100m	A18SE (NE)	477	3	258100 199900
19	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Hendy Stw/Llanant Stw, PONTARDAWE Environment Agency, Welsh Region Crude Sewage Inadequate Design/Capacity 26th March 1996 27996 Not Given Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A18SW (NW)	504	3	257500 199895
19	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Water Company Sewage: Other Hendy Sewage Works Environment Agency, Welsh Region Crude Sewage Inadequate Design/Capacity 26th March 1996 27996 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A18SW (NW)	508	3	257500 199900



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Rear Gower Field Road, GORSEINON Environment Agency, Welsh Region Stagnant Water Drainage Ditch At Gorseinon; Natural Occurrence 1st August 1997 33236 Not Given Not Given Not Given Natural Causes Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	557	3	258300 199800
21	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Water Company Sewage: Sewerage Gwynfe Road Crossing Environment Agency, Welsh Region Industrial Solid Waste Emergency Overflow 28th September 1991 1575 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A8SE (S)	679	3	257800 198550
22	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given On Footpath To, Gwyd Place From, Rev James Pub Environment Agency, Welsh Region Unknown River Loughor 19th August 1997 33303 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A7SE (SW)	899	3	257200 198500
23	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Glanymor Park, Near Loughor Estuary Environment Agency, Welsh Region Heavy Fuel Oil River Loughor 23rd September 1997 33854 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A7SW (SW)	911	3	257050 198600
24	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Ddol Farm, Dunvant 3 Bridges Environment Agency, Welsh Region Sewage Debris/Litter Not Supplied 21st February 1995 23089 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A9SW (SE)	983	3	258400 198400



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions					
	Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	British Steel Plc 22/59/4/0053 100 River Lliw At Point C Environment Agency, Welsh Region Metal: General Use Relating To Secondary Category (Medium Loss) Water may be abstracted from a single point Surface Not Supplied Not Supplied Not Supplied Mill Leat Of River Lliw 01 January 31 December 4th January 2001 Not Supplied Located by supplier to within 10m	A5NE (SE)	1841	3	259400 198200
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	British Steel Plc 22/59/4/0053 Not Supplied Location Description Not Available Environment Agency, Welsh Region Metal: General Use Relating To Secondary Category (Medium Loss) Not Supplied Surface 249 90920 River Lliw At Point C Not Supplied Located by supplier to within 100m	A5NE (SE)	1841	3	259400 198200
	Groundwater Vulne Combined Classification: Combined Vulnerability: Combined Aquifer: Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial Patchiness: Superficial Thickness: Superficial Recharge:	rability Map Secondary Superficial Aquifer - Low Vulnerability Low Productive Bedrock Aquifer, Productive Superficial Aquifer Low Well Connected Fractures >550 mm/year <40% >90% <3m Medium	A13SE (NW)	0	2	257787 199348
	Bedrock Aquifer De Aquifer Designation:	signations Secondary Aquifer - A	A13SE	0	2	257787
	Suporficial Aif	Designations	(NW)			199348
	Superficial Aquifer Aquifer Designation:	Secondary Aquifer - Undifferentiated	A13SE (NW)	0	2	257787 199348
	Extreme Flooding for Type: Flood Plain Type: Boundary Accuracy:	rom Rivers or Sea without Defences Extent of Extreme Flooding from Rivers or Sea without Defences Tidal Models As Supplied	A13SW (SW)	120	2	257593 199176
	Flooding from River Type: Flood Plain Type: Boundary Accuracy:	rs or Sea without Defences Extent of Flooding from Rivers or Sea without Defences Tidal Models As Supplied	A13SW (SW)	124	2	257589 199174
	Areas Benefiting fro	om Flood Defences				
	Flood Water Storag None	e Areas				
	Flood Defences Type: Reference:	Flood Defences Not Supplied	A13SW (SW)	241	2	257518 199080



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (S)	0	4	257794 199234
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (NW)	0	4	257720 199407
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (NW)	0	4	257720 199407
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	3	4	257671 199263
29	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: Loughor Primacy: 1	A13NW (NW)	9	4	257710 199407
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (W)	17	4	257657 199360
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 308.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	26	4	257645 199274
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (W)	30	4	257669 199367
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (N)	73	4	257874 199565



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	77	4	257878 199565
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	82	4	257884 199567
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	95	4	257898 199570
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	100	4	257904 199571
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	111	4	257916 199573
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (N)	143	4	257881 199642
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 201.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (N)	146	4	257882 199645
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	151	4	257616 199123
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	169	4	257640 199089



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	173	4	257645 199083
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor	A13SW (SW)	197	4	257643 199058
45	Primacy: 1 OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	199	4	257643 199055
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	210	4	257720 199023
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	226	4	257673 199018
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	233	4	257592 199042
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	234	4	257707 199001
50	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	245	4	257485 199109
51	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	273	4	257443 199116



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	275	4	257487 199062
53	OS Water Network Lines Watercourse Form: Foreshore Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	279	4	257433 199121
54	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 174.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	279	4	257433 199121
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	281	4	257432 199120
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	285	4	257432 199112
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	286	4	257429 199114
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	293	4	257448 199077
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	296	4	257454 199066
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	298	4	257457 199059



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	302	4	257460 199051
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	320	4	257351 199273
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	334	4	257339 199244
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	360	4	257312 199246
65	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 254.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	384	4	257294 199200
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	399	4	257458 198930
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	402	4	257463 198923
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	403	4	257376 198993
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	429	4	257500 198869



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	431	4	257502 198865
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	435	4	257356 198968
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	437	4	257351 198970
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	444	4	257230 199369
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	468	4	257267 199032
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	525	4	257179 199516
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	525	4	257179 199516
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 223.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	541	4	257886 200047
78	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: Loughor Primacy: 1	A12SE (W)	541	4	257129 199292



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	561	4	257284 199761
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 207.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	581	4	257265 198852
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (W)	597	4	257089 199136
82	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	599	4	257085 199147
83	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	599	4	257085 199147
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	601	4	257076 199411
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	603	4	257149 199633
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	604	4	257383 199923
87	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	607	4	257110 199565



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (W)	609	4	257066 199204
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (W)	609	4	257066 199204
90	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	611	4	257114 199582
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	612	4	257153 198942
92	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 39.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	613	4	257112 199582
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (W)	616	4	257054 199338
94	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	631	4	257110 199621
95	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (W)	633	4	257108 199621
96	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	636	4	257109 199630



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	636	4	257109 199630
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	637	4	257107 199630
99	OS Water Network Lines Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	643	4	257112 199649
100	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 106.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	643	4	257112 199649
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NE (NW)	644	4	257110 199649
102	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 71.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	649	4	257235 199839
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	650	4	257686 200145
104	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	654	4	257192 199795
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	656	4	257042 199515



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 254.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (W)	657	4	257014 199345
	OS Water Network Lines				
107	Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	666	4	257038 199540
	OS Water Network Lines				
108	Watercourse Form: Tidal river Watercourse Length: 93.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	670	4	257176 199799
	OS Water Network Lines				
109	Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	675	4	257005 199158
	OS Water Network Lines				
110	Watercourse Form: Tidal river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	675	4	257006 199159
	OS Water Network Lines				
111	Watercourse Form: Inland river Watercourse Length: 39.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	695	4	257847 198534
	OS Water Network Lines				
112	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	697	4	257024 199590
	OS Water Network Lines				
113	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (NW)	703	4	257070 199696
	OS Water Network Lines				
114	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	706	4	256982 199481



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A17SW (NW)	709	4	257093 199744
	OS Water Network Lines				
116	Watercourse Form: Tidal river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	709	4	257093 199744
	OS Water Network Lines				
117	Watercourse Form: Inland river Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	711	4	257092 199745
	OS Water Network Lines				
118	Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	711	4	256987 199522
	OS Water Network Lines				
119	Watercourse Form: Tidal river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	712	4	257097 199755
	OS Water Network Lines				
120	Watercourse Form: Inland river Watercourse Length: 53.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	713	4	256999 199570
	OS Water Network Lines				
121	Watercourse Form: Tidal river Watercourse Length: 102.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	713	4	257000 199571
	OS Water Network Lines				
122	Watercourse Form: Foreshore Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Drimacy: 1	A12NW (W)	713	4	257000 199571
	OS Water Network Lines				
123	Watercourse Form: Tidal river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	718	4	257095 199763



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 158.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	721	4	256948 199284
125	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: Loughor Primacy: 1	A12NW (W)	722	4	256977 199528
126	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	724	4	257095 199773
127	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 115.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A17SW (NW)	724	4	257095 199773
128	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 64.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	725	4	257093 199772
129	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 393.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A12SW (W)	733	4	256937 199335
130	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1081.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NW (SW)	735	4	257004 198959
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	740	4	257052 199739
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	740	4	257052 199739



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	741	4	257052 199740
134	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	754	4	256932 199474
135	OS Water Network Lines Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	755	4	256930 199474
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NE (SE)	762	4	258461 198745
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	763	4	257033 199750
138	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 54.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	763	4	257033 199750
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	770	4	257031 199760
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (NW)	773	4	256985 199690
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	777	4	257042 199788



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	780	4	257028 199775
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	781	4	257041 199794
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	786	4	256982 199711
145	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	792	4	256909 199546
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	794	4	256907 199545
147	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 86.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	794	4	256983 199729
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	794	4	256983 199729
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	797	4	256983 199735
150	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	813	4	257053 199873



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	813	4	257053 199873
152	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: Loughor Primacy: 1	A12NW (W)	813	4	256899 199586
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	813	4	256899 199586
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	815	4	257050 199872
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	817	4	256909 199627
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	820	4	257022 199838
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	823	4	256985 199788
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	823	4	256877 199545
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	844	4	256879 199621



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	847	4	256976 199818
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor	A12NW (W)	848	4	256910 199706
162	Primacy: 1 OS Water Network Lines Watercourse Form: Tidal river Watercourse Leuel: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	849	4	256904 199695
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	851	4	257010 199878
164	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	854	4	257025 199905
165	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	854	4	257025 199905
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	856	4	256837 199522
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	856	4	256845 199552
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	864	4	256925 199769

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	870	4	257024 199931
	OS Water Network Lines				
170	Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	870	4	257028 199937
	OS Water Network Lines				
171	Watercourse Form: Inland river Watercourse Length: 89.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	888	4	256930 199822
	OS Water Network Lines				
172	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	891	4	256997 199929
	OS Water Network Lines				
173	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17NE (NW)	893	4	257125 200075
	OS Water Network Lines				
174	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	896	4	256880 199754
	OS Water Network Lines				
175	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	896	4	256880 199754
	OS Water Network Lines				
176	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	897	4	256928 199835
	OS Water Network Lines				
177	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	909	4	257133 198534



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	913	4	256853 199739
179	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	914	4	256822 199670
180	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 150.2 Watercourse Level: On ground surface True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	916	4	256817 199663
181	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 28.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	917	4	256818 199669
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (W)	923	4	256834 199722
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	924	4	256867 199789
184	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: Loughor Primacy: 1	A17SW (NW)	925	4	256889 199825
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	931	4	256950 199932
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	931	4	256950 199932



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	932	4	256868 199806
188	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: Loughor Primacy: 1	A17SW (W)	933	4	256829 199734
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	935	4	256862 199802
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (W)	935	4	256828 199736
191	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SW (SW)	938	4	257082 198536
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	943	4	256799 199690
193	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 101.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12NW (W)	943	4	256799 199690
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	948	4	256875 199848
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	952	4	256895 199885



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	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: Loughor Primacy: 2	A17SW (NW)	957	4	256922 199936
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	957	4	256922 199936
198	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (W)	960	4	256807 199750
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	965	4	256836 199816
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	966	4	256864 199863
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	978	4	256860 199879
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	978	4	256860 199879
203	OS Water Network Lines Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	979	4	256858 199879
204	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	982	4	256853 199877



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 214.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A17NW (NW)	984	4	257047 200126
206	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A17NW (NW)	987	4	257054 200136
207	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	988	4	256805 199809
208	OS Water Network Lines Watercourse Form: Tidal river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A17NW (NW)	989	4	257058 200144
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17NE (NW)	994	4	257139 200229
210	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	996	4	256805 199824
211	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	996	4	256805 199824
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A16SE (W)	998	4	256750 199717

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 38 of 59





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Recorded Land	dfill Sites				
213	Site Name: Location: Authority: Ground Water: Surface Water: Geology: Positional Accuracy: Boundary Accuracy:	Llannant Tip Curst-y-canre Farm, Glamorgan British Geological Survey, National Geoscience Information Service No threat to ground water No threat to surface water N/A Positioned by the supplier Moderate	A18SW (NW)	527	-	257477 199906
	Historical Landfill S	iites				
214	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Lliw Valley Council Gorseinon Cwrt Y Carne Farm Not Supplied As Supplied	A18SW (NW)	524	2	257486 199909
	Historical Landfill S	iites				
215	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type:		A18SW (NW)	527	2	257477 199906
	EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	0 Not Supplied Not Supplied 1206 Not Supplied				
	Historical Landfill S					
216	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	As Supplied	A17SE (NW)	612	2	257355 199915
		nagement Facilities (Locations)				
217	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference: Positional Accuracy:	GP3597SN Penyrheol, Gorseinon, Swansea, West Glamorgan, SA4 4FY J H Jenkins & Sons Not Supplied Natural Resources Wales Other Landfill Sites Taking Special Waste Effective 7th March 2011 Not Supplied Approximate location provided by supplier	A18SE (N)	520	2	258000 2000000





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference:	agement Facilities (Locations) 101553 Pencefnarda Uchaf Farm, Penyrheol, Gorseinon, Swansea, SA4 4FY J H Jenkins & Sons Not Supplied Natural Resources Wales Other Landfill Sites Taking Special Waste Issued 7th March 2011 Not Supplied	A18SE (N)	520	2	258000 200000
	Local Authority Land Name:	Ifill Coverage City and County of Swansea - Has no landfill data to supply		0	5	257787 199348
218	Use:	and (Non-Water) S Unknown Filled Ground (Pit, quarry etc) 1993	A8NE (S)	277	-	257805 198953
219	Use:	and (Non-Water) SW Unknown Filled Ground (Pit, quarry etc) 1993	A7NE (SW)	512	-	257261 198961
220	Use:	and (Non-Water) NE Unknown Filled Ground (Pit, quarry etc) 1993	A14NW (NE)	560	-	258350 199703
221	Use:	and (Non-Water) E Unknown Filled Ground (Pit, quarry etc) 1993	A14NE (E)	611	1	258449 199505
222	Use:	and (Non-Water) NE Unknown Filled Ground (Pit, quarry etc) 1993	A19SW (NE)	639	-	258419 199745
223	Use:	and (Non-Water) S Unknown Filled Ground (Pit, quarry etc) 1993	A8SE (S)	778	-	257973 198458
224	Use:	and (Non-Water) SE Unknown Filled Ground (Pit, quarry etc) 1993	A9SW (SE)	872	-	258403 198538
225		and (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A13SE (S)	0	-	257802 199231
226	Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A13SE (SE)	225	-	257987 199036
227	Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A13SW (SW)	301	-	257461 199051
228	Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NW (S)	383	-	257756 198847
229	Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A14SW (SE)	395	-	258221 199042
230	Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A8NE (SE)	401	-	258075 198884
231		and (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NW (SW)	409	-	257479 198903

A Landmark Information Group Service Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled L	and (Water)				
232	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1921	A8NE (SE)	438	-	258101 198856
	Potentially Infilled L	and (Water)				
233	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NE (S)	448	-	257968 198791
	Potentially Infilled L	and (Water)				
234	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	A7NE (SW)	496	-	257248 199009
	Potentially Infilled L	and (Water)				
235	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1921	A9NW (SE)	617	-	258387 198887
	Potentially Infilled L	and (Water)				
236	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	A17SE (NW)	663	-	257216 199839
	Potentially Infilled L	and (Water)				
237	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A14SE (E)	765	-	258619 199054
	Potentially Infilled L	and (Water)				
238	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A9NE (SE)	778	-	258481 198743
	Potentially Infilled L	and (Water)				
239	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A7SE (SW)	937	-	257210 198450
	Potentially Infilled L	and (Water)				
240	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A9SE (SE)	990	-	258564 198521
	Registered Landfill	Sites				
241	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence: Positional Accuracy: Boundary Accuracy: Authorised Waste	Approved Trade Waste Civic Amenity/Refuse Amenity Waste Construction And Demolition Wastes Household Waste Corrosive Waste	A18NW (N)	674	3	257500 200100
		Explosive Waste Highly Flammable Chemicals Toxic/Poisonous Wastes				





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Description:	d Geology South Wales Upper Coal Measures Formation	A13SE	0	1	257787
	BGS Estimated Soil	-	(NW)	0	4	199348
	Source: Soil Sample Type: Arsenic Concentration:	British Geological Survey, National Geoscience Information Service Sediment 15 - 25 mg/kg	A13SE (NW)	0	1	257787 199348
	Cadmium Concentration: Chromium	<1.8 mg/kg 60 - 90 mg/kg				
	Concentration: Lead Concentration: Nickel Concentration:	<100 mg/kg 15 - 30 mg/kg				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service Sediment 25 - 35 mg/kg	A8NE (S)	204	1	257787 199000
	Concentration: Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration:					
	Nickel Concentration:	15 - 30 mg/kg				
	BGS Estimated Soil Source:	Chemistry British Geological Survey, National Geoscience Information Service	A8NE	263	1	258000
	Soil Sample Type: Arsenic Concentration:	Sediment 25 - 35 mg/kg	(SE)	200	'	199000
	Cadmium Concentration: Chromium	<1.8 mg/kg 60 - 90 mg/kg				
	Concentration: Lead Concentration: Nickel					
	Concentration:	Chamieter				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service Sediment 25 - 35 mg/kg	A7NE (SW)	531	1	257213 199000
	Concentration: Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration:					
	Nickel Concentration:	15 - 30 mg/kg				
	Source: Soil Sample Type: Arsenic	Chemistry British Geological Survey, National Geoscience Information Service Sediment 15 - 25 mg/kg	A18NE (N)	596	1	257919 200098
	Concentration: Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration:	60 - 90 mg/kg <100 mg/kg				
	Nickel Concentration:	15 - 30 mg/kg				
	BGS Estimated Soil	•				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service Sediment 25 - 35 mg/kg	A8SE (S)	628	1	258000 198615
	Concentration: Cadmium Concentration:	<1.8 mg/kg				
	Chromium Concentration: Lead Concentration: Nickel	60 - 90 mg/kg <100 mg/kg 30 - 45 mg/kg				
	Concentration:	50 - 45 mg/kg				

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 42 of 59





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment 25 - 35 mg/kg 1.8 - 2.2 mg/kg 60 - 90 mg/kg	A14NE (E)	661	1	258500 199500
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment 25 - 35 mg/kg <1.8 mg/kg 60 - 90 mg/kg <100 mg/kg 15 - 30 mg/kg	A17NE (NW)	691	1	257434 200080
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment 15 - 25 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A14NE (E)	781	1	258638 199412
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment 15 - 25 mg/kg 1.8 - 2.2 mg/kg 60 - 90 mg/kg	A14NE (E)	880	1	258722 199500
242	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Pen-Cefn-Arda Isaf Gorseinon, Swansea, West Glamorgan British Geological Survey, National Geoscience Information Service 153932 Opencast Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Sandstone Located by supplier to within 10m	A14NW (NE)	563	1	258354 199700
243	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Glan-Nant Gorseinon, Swansea, West Glamorgan British Geological Survey, National Geoscience Information Service 153942 Opencast Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Sandstone Located by supplier to within 10m	A18NE (NE)	600	1	258083 200051





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Recorded Min					
244	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Tir-Newydd Gorseinon, Llanelli, West Glamorgan British Geological Survey, National Geoscience Information Service 153971 Underground Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A8SE (S)	780	1	257989 198458
	BGS Recorded Min	eral Sites				
245	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Broadoak Pit Gorseinon, Llanelli, West Glamorgan British Geological Survey, National Geoscience Information Service 153970 Underground Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	876	1	257055 198644
	BGS Recorded Min	eral Sites				
245	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Broadoak Colliery Loughor, Gorseinon, West Glamorgan British Geological Survey, National Geoscience Information Service 188592 Underground Ceased Individual'S Name Withheld Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	904	1	257023 198637
	BGS Recorded Min	eral Sites				
246	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Broadoak Colliery Loughor, Gorseinon, West Glamorgan British Geological Survey, National Geoscience Information Service 188593 Underground Ceased Individual'S Name Withheld Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	929	1	257028 198597
	BGS Measured Urb No data available	an Soil Chemistry				
	BGS Urban Soil Ch No data available	emistry Averages				
	Coal Mining Affects Description:	ed Areas In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (NW)	0	6	257787 199348
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	A13SE (NW)	0	-	257787 199348
	Non Coal Mining An No Hazard	reas of Great Britain				
	Potential for Collap Hazard Potential: Source:	visible Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Collap Hazard Potential: Source:	osible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service



Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Comp	ressible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Comp	ressible Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13NE (N)	187	1	257917 199672
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13NE (NE)	243	1	258007 199670
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13NE (N)	187	1	257917 199672
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards			_	
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13NE (NE)	210	1	257978 199657
	Radon Potential - R	adon 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).	A13SE (NW)	0	1	257787 199348
	Source:	British Geological Survey, National Geoscience Information Service				
		No radon protective measures are necessary in the construction of new	A13SE	0	1	257787
	Source:	dwellings or extensions British Geological Survey, National Geoscience Information Service	(NW)			199348

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 45 of 59



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Jopling Coaches 64, Heol Pentre Bach, Gorseinon, Swansea, SA4 4ZA Bus & Coach Operators & Stations Inactive Automatically positioned to the address	A8NE (S)	298	-	257808 198932
248	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries P J Norman Haulage Ltd 19, Brynhyfryd Road, Gorseinon, Swansea, SA4 4XH Road Haulage Services Inactive Automatically positioned to the address	A14SW (SE)	447	-	258284 199051
249	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Fairfield Garage A, 177, Frampton Road, Gorseinon, Swansea, SA4 4YG Garage Services Inactive Automatically positioned to the address	A14NW (E)	494	-	258341 199433
249	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries A G B Repairs 177a, Frampton Road, Gorseinon, Swansea, SA4 4YG Garage Services Inactive Automatically positioned to the address	A14NW (E)	494	-	258341 199433
250	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Ironing Fairy 3, Banfield Terrace, Loughor, Swansea, SA4 6TF Ironing & Home Laundry Services Inactive Automatically positioned to the address	A7NE (SW)	530	-	257337 198855
251	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries J Car Autos Vw Audi & German Car Specialists 189, Frampton Road, Gorseinon, Swansea, SA4 4YG Garage Services Inactive Automatically positioned to the address	A14NW (E)	539	-	258381 199471
251	Contemporary Trad Name: Location: Classification: Status:	* * * * * * * * * * * * * * * * * * * *	A14NW (E)	539	-	258381 199471
251	Contemporary Trad Name: Location: Classification: Status:		A14NW (E)	539	-	258381 199471
252	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Mrs Muscle 25, Brynamlwg Road, Gorseinon, Swansea, SA4 4UZ Cleaning Services - Domestic Inactive Automatically positioned to the address	A9NW (SE)	549	-	258274 198855
253	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries S W A A, 1, Penybanc, Gorseinon, Swansea, West Glamorgan, SA4 4FZ Hi-Fi Equipment Manufacturers & Distributors Inactive Automatically positioned to the address	A19SW (NE)	569	-	258314 199800
254	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Gorseinon Hospital Brynawel Road, Gorseinon, SWANSEA, SA4 4UU Hospitals Active Automatically positioned to the address	A9NE (SE)	637	-	258478 199025
255	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Crossroads Alexandra Road, Gorseinon, Swansea, SA4 4PF Car Dealers - Used Inactive Automatically positioned to the address	A8SE (S)	649	-	258017 198597

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 46 of 59



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
255	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries The Car Store Alexandra Road, Gorseinon, Swansea, West Glamorgan, SA4 4PF Car Dealers - Used Active Automatically positioned to the address	A8SE (S)	649	-	258017 198597
255	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Ritchie'S Laundry Services 1, Bryn Road, Loughor, Swansea, SA4 6PG Laundries & Launderettes Active Automatically positioned to the address	A8SE (S)	679	-	258009 198564
256	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries S & M Pallets 1, Bryneithin Road, Gorseinon, Swansea, SA4 4XA Pallets, Crates & Packing Cases Inactive Automatically positioned to the address	A9NW (SE)	650	-	258262 198709
257	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Superfix 35, HAWTHORN AVENUE, GORSEINON, SWANSEA, SA4 4XD Plant & Machinery Repairs Inactive Automatically positioned to the address	A9SW (SE)	696	-	258225 198629
258	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Parfumesque 150, Alexandra Road, Gorseinon, Swansea, SA4 4PE Perfume Suppliers Inactive Automatically positioned to the address	A9SW (SE)	719	-	258160 198570
258	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Leisure Launderette Services 173, Alexandra Road, Gorseinon, Swansea, SA4 4PE Laundries & Launderettes Inactive Automatically positioned to the address	A9SW (SE)	744	-	258158 198543
259	Contemporary Trad Name: Location: Classification: Status:		A9NE (SE)	810	-	258626 198927
260	Contemporary Trad Name: Location: Classification: Status:		A9NE (SE)	818	-	258546 198764
261	Contemporary Trad Name: Location: Classification: Status:		A9SE (SE)	825	-	258449 198640
262	Contemporary Trad Name: Location: Classification: Status:		A7SE (SW)	866	-	257398 198435
263	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Frozen Joy 25, Heol Cae Tynewydd, Loughor, Swansea, SA4 6PW Ice Cream Manufacturers & Suppliers Inactive Automatically positioned to the address	A3NE (S)	875	-	257773 198355
264	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Essential Oven Cleaning 26, Heol Cae Copyn, Loughor, Swansea, SA4 6SF Oven cleaning Active Automatically positioned to the address	A7SE (S)	918	-	257395 198380

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 47 of 59



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
265	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Chappell Rentals 19, Heol Maes y Bryn, Loughor, Swansea, SA4 6PL Washing Machines - Servicing & Repairs Inactive Automatically positioned to the address	A3NE (S)	974	-	257888 198256
266	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries All Print Swansea Ltd Pontardulais Road, Gorseinon, Swansea, SA4 4FE Printers Inactive Automatically positioned to the address	A9NE (SE)	994	-	258759 198776
267	Name: Location: Category: Class Code:	Commercial Services P J Norman Haulage Ltd 19 Brynhyfryd Road, Gorseinon, Swansea, SA4 4XH Transport, Storage and Delivery Distribution and Haulage Positioned to address or location	A14SW (SE)	447	7	258284 199051
268	Name: Location: Category: Class Code:	Commercial Services Fairfield Garage 177a Frampton Road, Gorseinon, Swansea, SA4 4YG Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A14NW (E)	494	7	258341 199433
268	Name: Location: Category: Class Code:	Commercial Services Fairfield Garage A 177 Frampton Road, Gorseinon, Swansea, SA4 4YG Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A14NW (E)	494	7	258341 199433
268	Name: Location: Category: Class Code:	Commercial Services A G B Repairs 177a Frampton Road, Gorseinon, Swansea, SA4 4YG Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A14NW (E)	494	7	258341 199433
268	Name: Location: Category: Class Code:	Commercial Services Fairfield Garage 177a Frampton Road, Gorseinon, Swansea, SA4 4YG Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A14NW (E)	494	7	258341 199433
268	Name: Location: Category: Class Code:	Commercial Services L J Autoz 189 Frampton Road, Gorseinon, Swansea, SA4 4YG Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A14NW (E)	539	7	258381 199471
269	Name: Location: Category: Class Code:	Education and Health Gorseinon Hospital Brynawel Road, Gorseinon, Swansea, SA4 4UU Health Practitioners and Establishments Hospitals Positioned to address or location	A9NE (SE)	637	7	258478 199025
269	Name: Location: Category: Class Code:	Education and Health Gorseinon Hospital Brynawel Road, Gorseinon, Swansea, SA4 4UU Health Practitioners and Establishments Hospitals Positioned to address or location	A9NE (SE)	637	7	258478 199025
269	Name: Location: Category: Class Code:	Education and Health Gorseinon Hospital Brynawel Road, Gorseinon, Swansea, SA4 4UU Health Practitioners and Establishments Hospitals Positioned to address or location	A9NE (SE)	637	7	258478 199025
270	Name: Location: Category: Class Code:	Education and Health Swansea NHS Trust Ty Einon, Princess Street, Gorseinon, Swansea, SA4 4US Health Practitioners and Establishments Hospitals Positioned to address or location	A9NE (SE)	818	7	258546 198764

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 48 of 59



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	Name: Location: Category: Class Code:	Education and Health Swansea NHS Trust Ty Einon, Princess Street, Gorseinon, Swansea, SA4 4US Health Practitioners and Establishments Hospitals Positioned to address or location	A9NE (SE)	818	7	258546 198764
271	Name: Location: Category: Class Code:	Manufacturing and Production Workings (Dis) SA4 Extractive Industries Unspecified Quarries Or Mines Positioned to an adjacent address or location	A18NE (N)	577	7	258021 200052
272	Name: Location: Category: Class Code:	Manufacturing and Production Quarry (Disused) SA4 Extractive Industries Unspecified Quarries Or Mines Positioned to address or location	A19SW (NE)	605	7	258169 200007
272	Name: Location: Category: Class Code:	Manufacturing and Production Quarries (Disused) SA4 Extractive Industries Unspecified Quarries Or Mines Positioned to an adjacent address or location	A19NW (NE)	615	7	258118 200050
273	Name: Location: Category: Class Code:	Manufacturing and Production M Stevens Llannant Road, Gorseinon, Swansea, SA4 4ND Farming Livestock Farming Positioned to address or location	A18NW (N)	654	7	257638 200136
274	Name: Location: Category: Class Code:	Manufacturing and Production Limekiln (Disused) SA4 Industrial Features Lime Kilns Positioned to an adjacent address or location	A18NW (N)	758	7	257573 200225
274	Name: Location: Category: Class Code:	Manufacturing and Production Lime Kiln (Disused) SA4 Industrial Features Lime Kilns Positioned to address or location	A18NW (N)	759	7	257558 200220
275	Points of Interest - I Name: Location: Category: Class Code: Positional Accuracy:	Public Infrastructure Sewage Pumping Station SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	A8NW (S)	262	7	257762 198968
275	Name: Location: Category: Class Code:	Public Infrastructure Jopling Coaches 64 Heol Pentre Bach, Gorseinon, Swansea, SA4 4ZA Public Transport, Stations and Infrastructure Bus and Coach Stations, Depots and Companies Positioned to address or location	A8NE (S)	298	7	257808 198932
275	Name: Location: Category: Class Code:	Public Infrastructure Jopling Coaches 64 Heol Pentre Bach, Gorseinon, Swansea, SA4 4ZA Public Transport, Stations and Infrastructure Bus and Coach Stations, Depots and Companies Positioned to address or location	A8NE (S)	298	7	257808 198932
276	Name: Location: Category: Class Code:	Public Infrastructure Sludge Bed SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	A18SW (N)	410	7	257634 199873
276	Name: Location: Category: Class Code:	Public Infrastructure Sludge Bed SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	A18SW (N)	411	7	257633 199873

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	Name: Location: Category: Class Code:	Public Infrastructure Sewage Works SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to address or location	A18SW (NW)	454	7	257541 199864
277	Name: Location: Category: Class Code:	Public Infrastructure Sewage Works SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	A18SW (NW)	436	7	257477 199776
278	Name: Location: Category: Class Code:	Public Infrastructure Chapel of Rest Not Supplied Infrastructure and Facilities Cemeteries and Crematoria Positioned to an adjacent address or location	A14NW (E)	538	7	258371 199520
278	Name: Location: Category: Class Code:	Public Infrastructure Chapel of Rest SA4 Infrastructure and Facilities Cemeteries and Crematoria Positioned to an adjacent address or location	A14NW (E)	541	7	258379 199494
279	Name: Location: Category: Class Code:	Public Infrastructure Slurry Bed SA4 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	A18NW (N)	580	7	257647 200062
280	Name: Location: Category: Class Code:	Public Infrastructure Cemetery SA4 Infrastructure and Facilities Cemeteries and Crematoria Positioned to an adjacent address or location	A14SE (E)	859	7	258735 199222
281	Name: Location: Category: Class Code:	Recreational and Environmental Playground Gower View Road, SA4 Recreational Playgrounds Positioned to address or location	A13NE (NE)	197	7	258014 199564
282	Name: Location: Category: Class Code:	Recreational and Environmental Playground Brynawel Road, SA4 Recreational Playgrounds Positioned to address or location	A9NW (SE)	667	7	258435 198870
282	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	A9NW (SE)	668	7	258434 198866
283	Name: Location: Category: Class Code:	Recreational and Environmental Play Area SA4 Recreational Playgrounds Positioned to an adjacent address or location	A9NE (SE)	754	7	258563 198923
284	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	A14NE (E)	767	7	258587 199604
284	Name: Location: Category: Class Code:	Recreational and Environmental Playground (Heol Gwenallt), SA4 Recreational Playgrounds Positioned to address or location	A14NE (E)	767	7	258588 199601

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 50 of 59



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
285	Sites of Special Sciename: Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Burry Inlet And Loughor Estuary N 58511645.68 Natural Resources Wales 67033wwl	A13SW (SW)	114	2	257561 199242
286	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Carmarthen Bay And Estuaries / Bae Caerfyrddin Ac Aberoedd N 661083957.79 Natural Resources Wales Uk0020020 Designated	A13SW (SW)	114	2	257561 199242

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 51 of 59



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	November 2023	Annually
Carmarthenshire County Council - Environmental Health Department	September 2017	Annual Rolling Update
City and County of Swansea - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	August 2023	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
ntegrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
ntegrated Pollution Prevention And Control		
Natural Resources Wales	August 2023	Quarterly
Environment Agency - Welsh Region	January 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Swansea Bay Port Health Authority	April 2014	Variable
City and County of Swansea - Environmental Health Department	December 2020	Variable
Carmarthenshire County Council - Environmental Health Department	March 2015	Variable
Local Authority Pollution Prevention and Controls		
Swansea Bay Port Health Authority	April 2014	Annually
City and County of Swansea - Environmental Health Department	December 2020	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	March 2015	Annual Rolling Update
	Water 2010	7 mildar ronning opdate
Local Authority Pollution Prevention and Control Enforcements	April 2014	Variable
Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department	April 2014 June 2014	Variable
Carmarthenshire County Council - Environmental Health Department	March 2015	Variable
	Watch 2015	Valiable
Nearest Surface Water Feature	November 2022	
Ordnance Survey	November 2023	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Natural Resources Wales	August 2023	Quarterly
Environment Agency Wales - South West Area	January 2021	Quarterly
Water Abstractions		
Natural Resources Wales	June 2023	Quarterly
Environment Agency - Welsh Region	October 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
	00.0001 2022	
Groundwater Vulnerability Map	lun = 0040	V = mortitie = 1
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 52 of 59



Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
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	October 2023	Quarterly
Surface Water 1 in 30 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water Suitability		
Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 53 of 59



Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South West Area	January 2023	Quarterly
Natural Resources Wales	October 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	August 2023	Quarterly
Environment Agency Wales - South West Area	July 2021	Quarterly
Local Authority Landfill Coverage		
Carmarthenshire County Council	February 2003	Not Applicable
City and County of Swansea - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Carmarthenshire County Council	October 2018	
City and County of Swansea - Environmental Health Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
City and County of Swansea - Planning Department	June 2023	Variable
Planning Hazardous Substance Consents		
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
	January 2016	Variable

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 54 of 59



Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	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	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	October 2023	Annually

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 55 of 59



Industrial Land Use	Version	Update Cycle	
Contemporary Trade Directory Entries			
Thomson Directories	October 2023	Quarterly	
Fuel Station Entries			
Catalist Ltd - Experian	November 2023	Quarterly	
Gas Pipelines			
National Grid	October 2021	Bi-Annually	
Points of Interest - Commercial Services			
PointX	December 2023	Quarterly	
Points of Interest - Education and Health			
PointX	December 2023	Quarterly	
Points of Interest - Manufacturing and Production			
PointX	December 2023	Quarterly	
Points of Interest - Public Infrastructure			
PointX	December 2023	Quarterly	
Points of Interest - Recreational and Environmental			
PointX	December 2023	Quarterly	
Underground Electrical Cables			
National Grid	February 2023	Bi-Annually	

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 56 of 59



Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	October 2023	Bi-Annually
Areas of Adopted Green Belt		
Carmarthenshire County Council	August 2023	Quarterly
City and County of Swansea	August 2023	Quarterly
Areas of Unadopted Green Belt		
Carmarthenshire County Council	August 2023	Quarterly
City and County of Swansea	August 2023	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	November 2023	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Carmarthenshire County Council	August 2023	Bi-Annually
City and County of Swansea	August 2023	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	October 2023	Bi-Annually
National Nature Reserves		
Natural Resources Wales	September 2023	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	March 2023	Bi-Annually
Ramsar Sites		
Natural Resources Wales	October 2023	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	October 2023	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	October 2023	Bi-Annually
Special Protection Areas		
Natural Resources Wales	October 2023	Bi-Annually

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 57 of 59



Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo	
Ordnance Survey	Map data	
Environment Agency	Environment Agency	
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency	
The Coal Authority	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	Cyfoeth Naturiol Cymru Natural Resources Wales	
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE ₩₩	
Natural England	NATURAL ENGLAND	
Public Health England	Public Health England	
Ove Arup	ARUP	
Stantec UK Ltd	Stantec	

Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 58 of 59

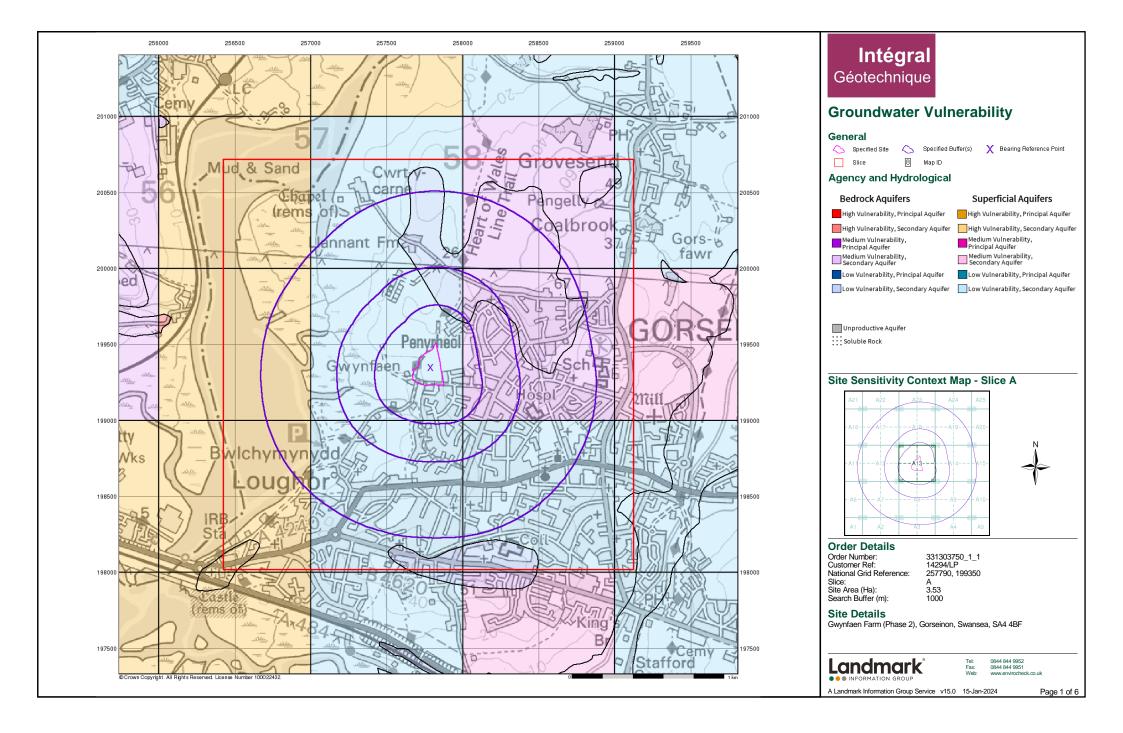


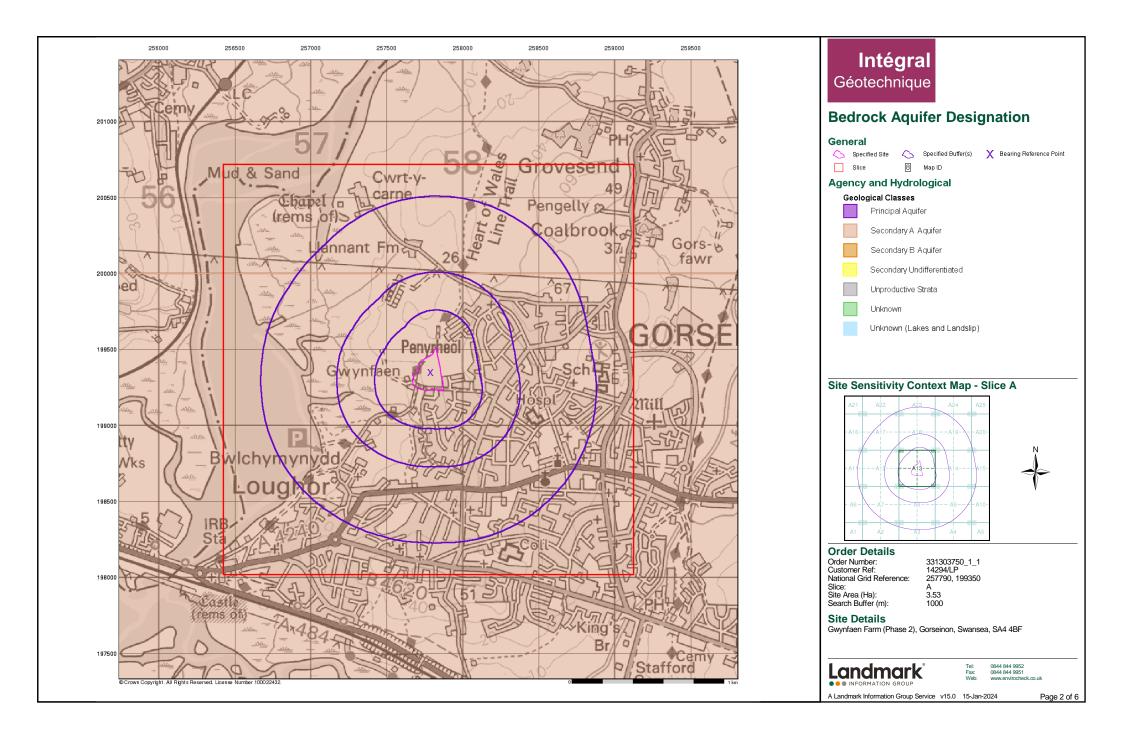
Useful Contacts

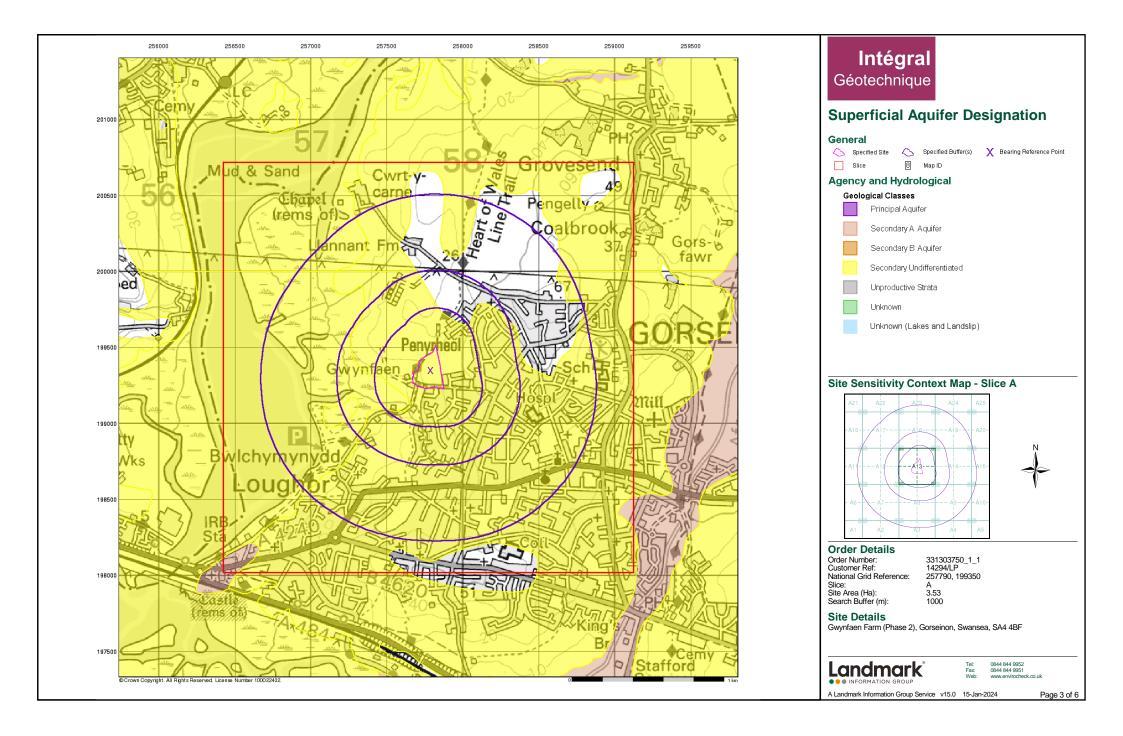
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	City and County of Swansea - Environmental Health Department The Guildhall, Swansea, West Glamorgan, SA1 4PE	Telephone: 01792 636000 extn 5651 Fax: 01792 635719
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

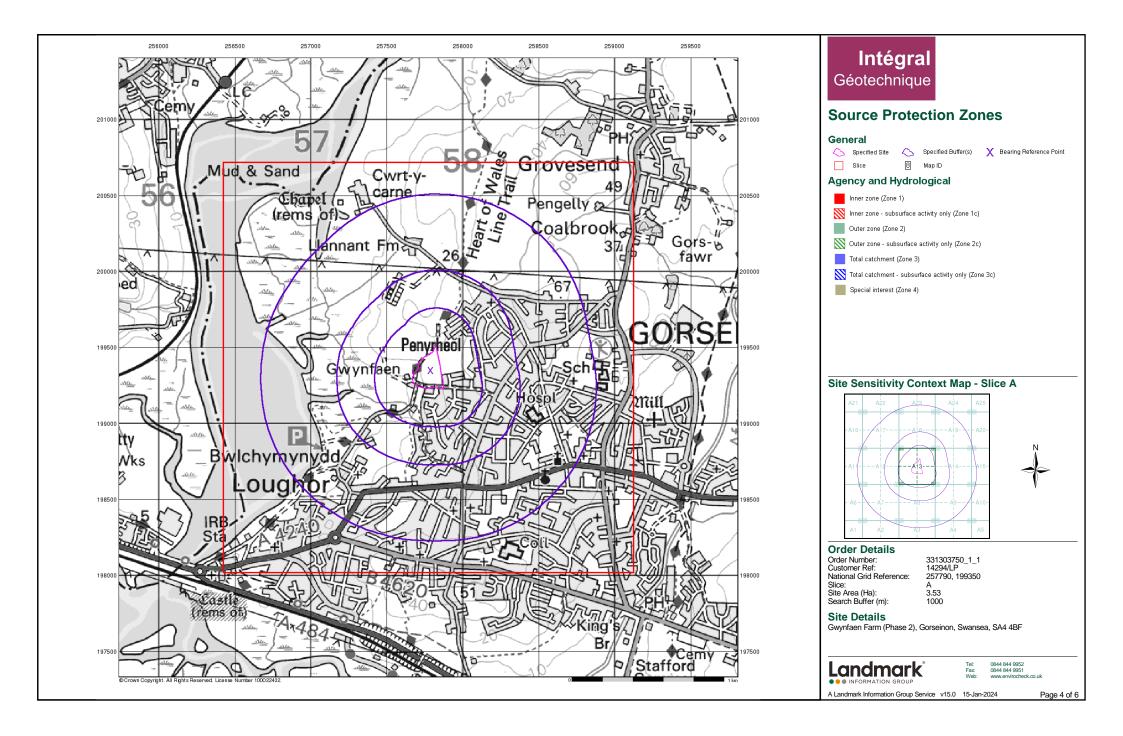
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

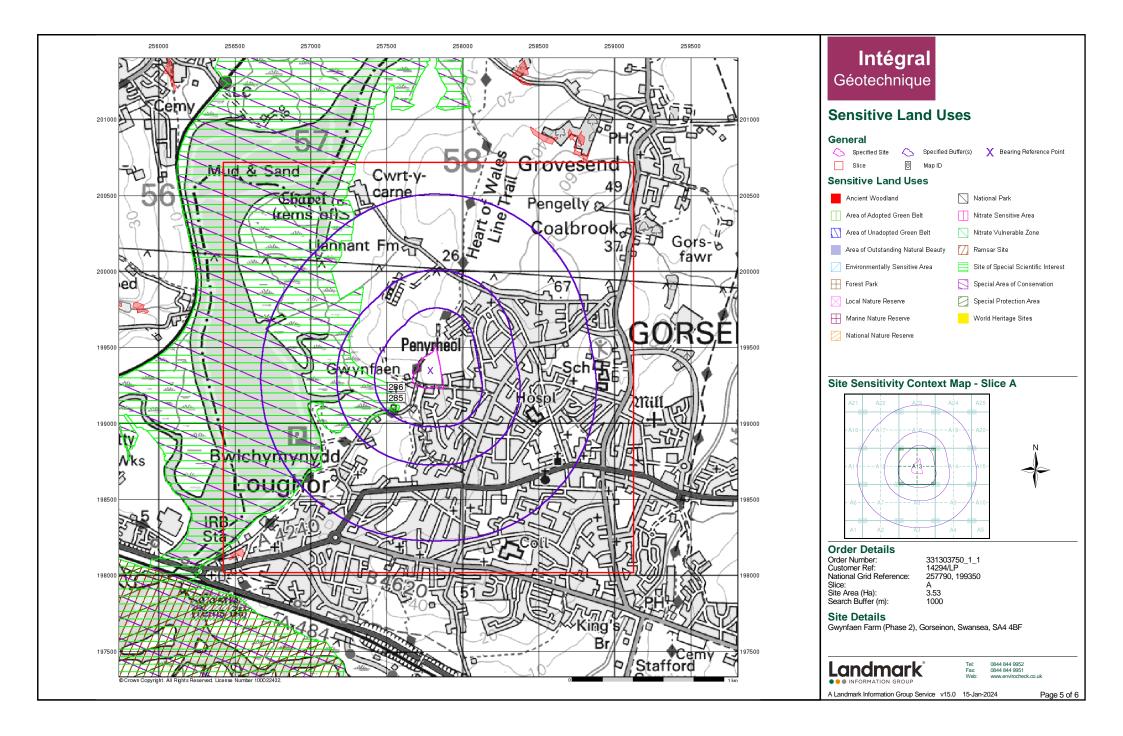
Order Number: 331303750_1_1 Date: 15-Jan-2024 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 59 of 59

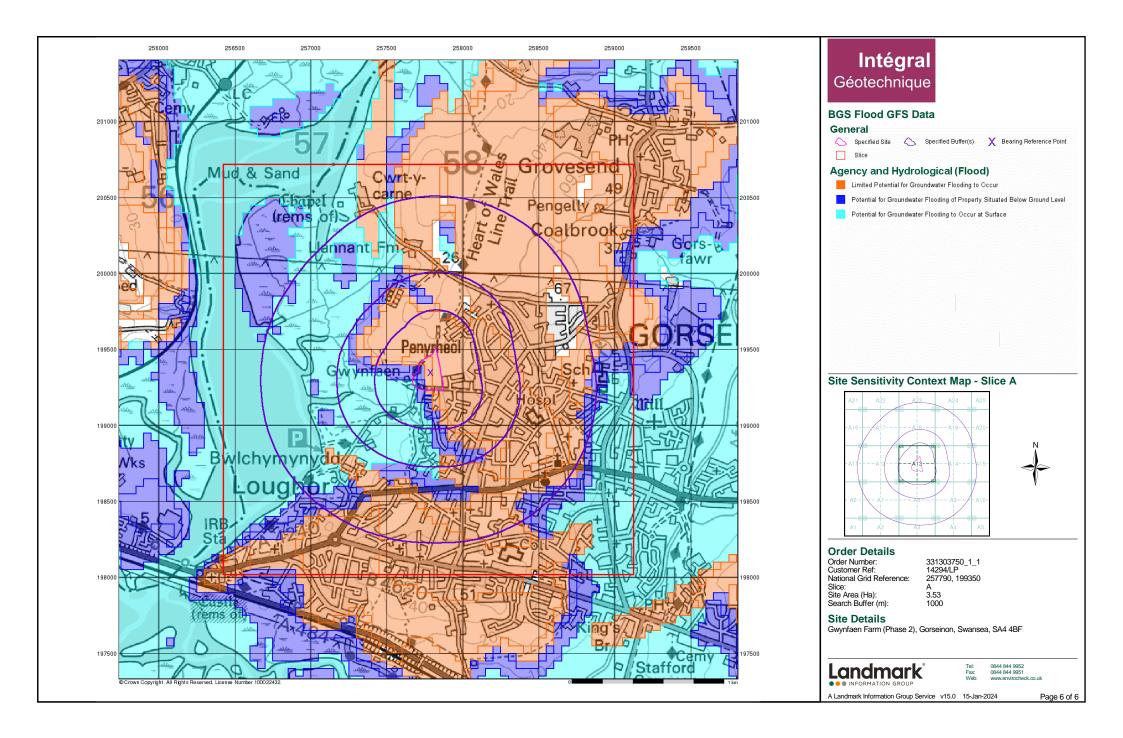


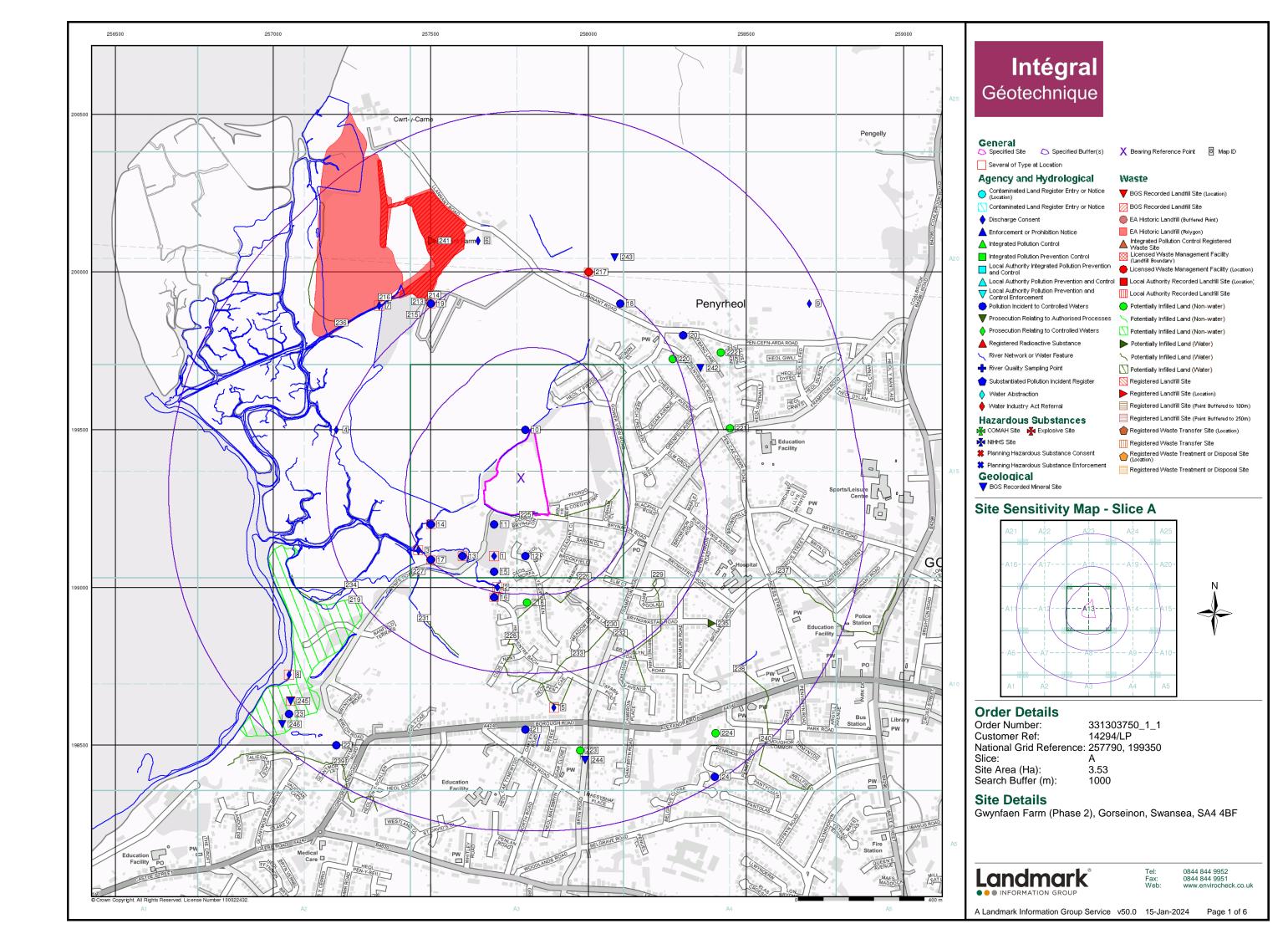


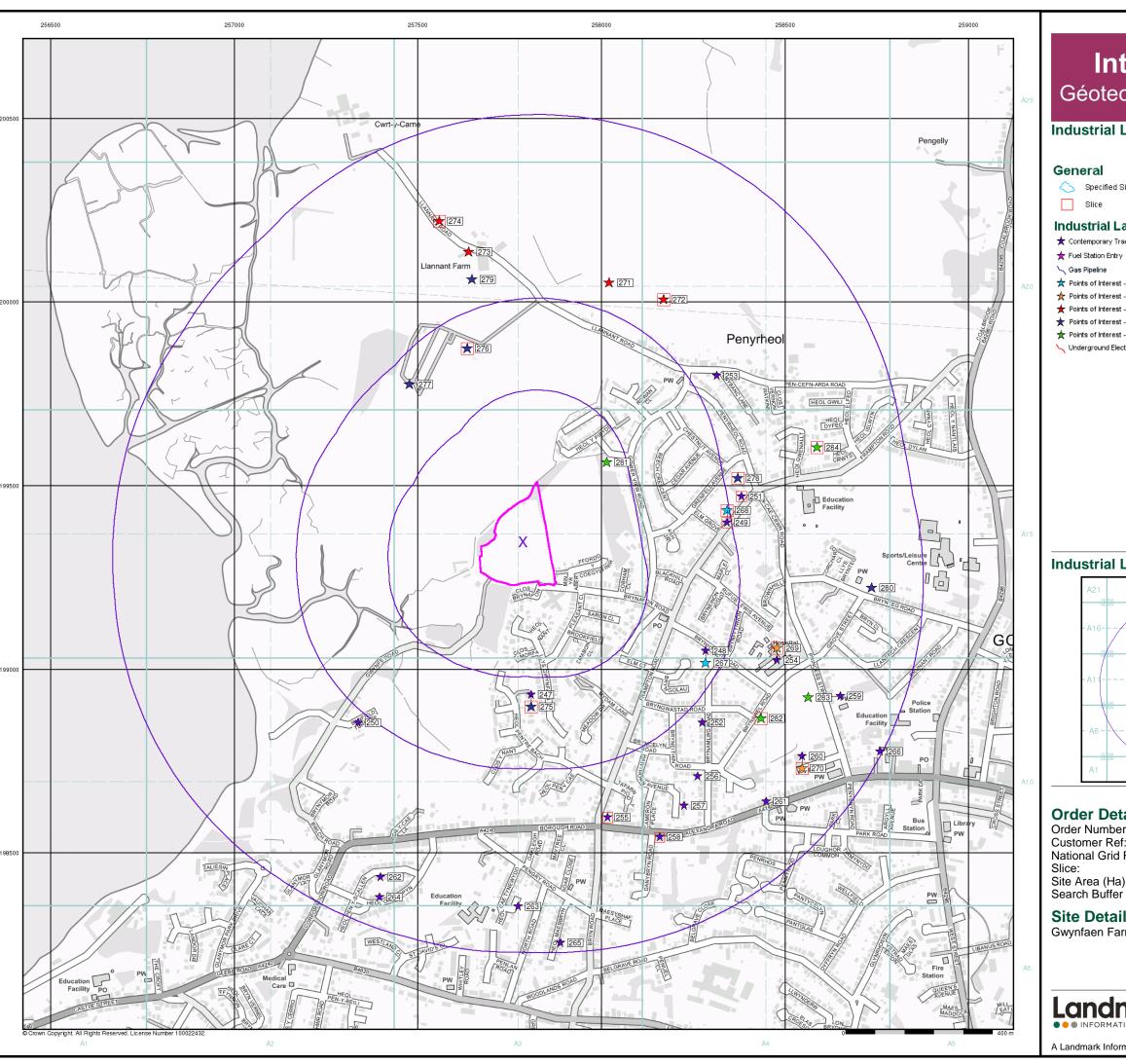












Intégral Géotechnique

Industrial Land Use Map

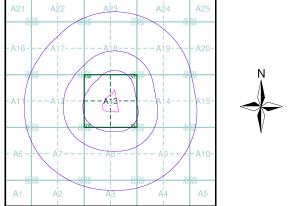
Specified Site Specified Buffer(s) X Bearing Reference Point

Industrial Land Use

- ** Contemporary Trade Directory Entry

- 🖈 Points of Interest Commercial Services
- roints of Interest Education and Health
- * Points of Interest Manufacturing and Production
- roints of Interest Public Infrastructure
- ** Points of Interest Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 2 of 6



General

Specified Buffer(s)

X Bearing Reference Point

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

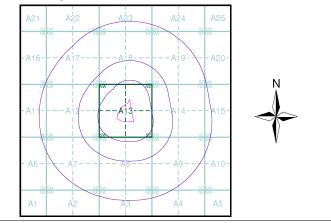
Flooding from Rivers or Sea without Defences (Zone 3)

Area Benefiting from Flood Defence

Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice A



Order Details

331303750_1_1 14294/LP Order Number: Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

Site Details

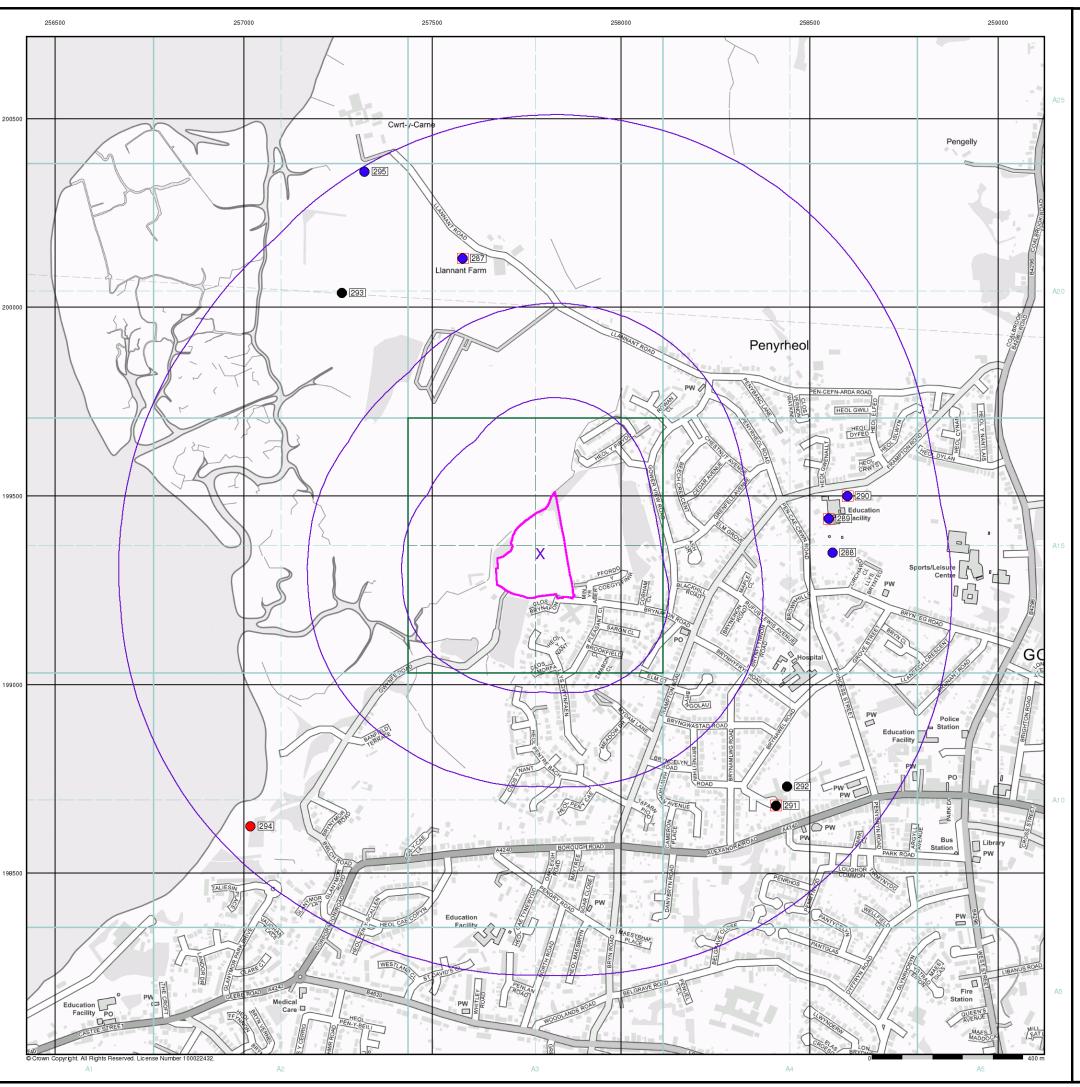
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

••• INFORMATION GROUP

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 3 of 6



General

Specified Site.

Specified Buffer(s)

X Bearing Reference Point

8 Map ID

Several of Type at Location

Agency and Hydrological (Boreholes)

BGS Borehole Depth 0 - 10m

BGS Borehole Depth 10 - 30m

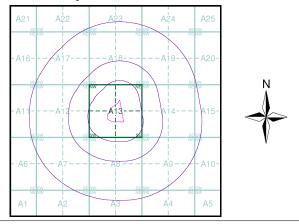
BGS Borehole Depth 30m +

Confidential
 Other

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

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): 3.53 Search Buffer (m): 1000

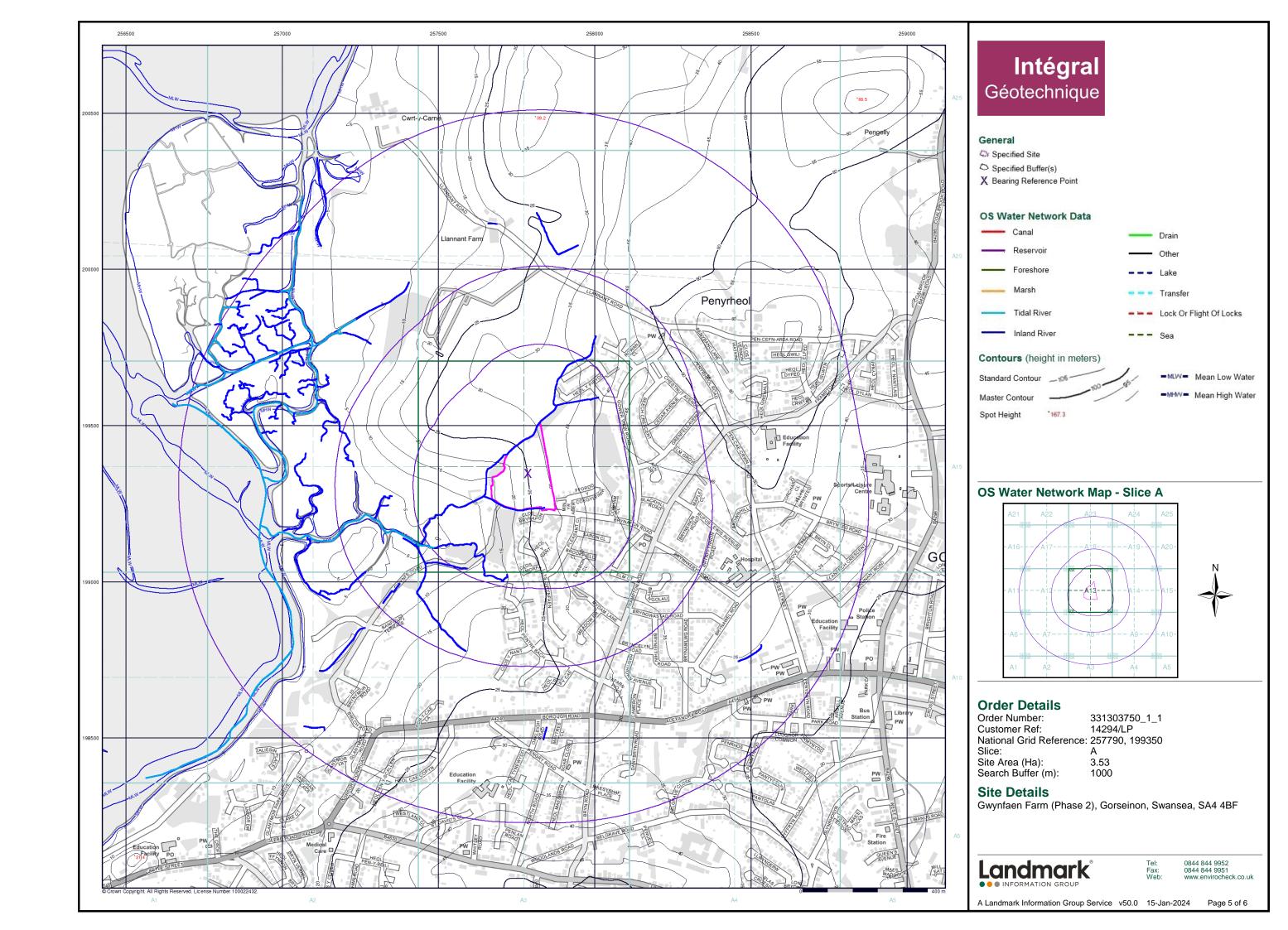
Site Details

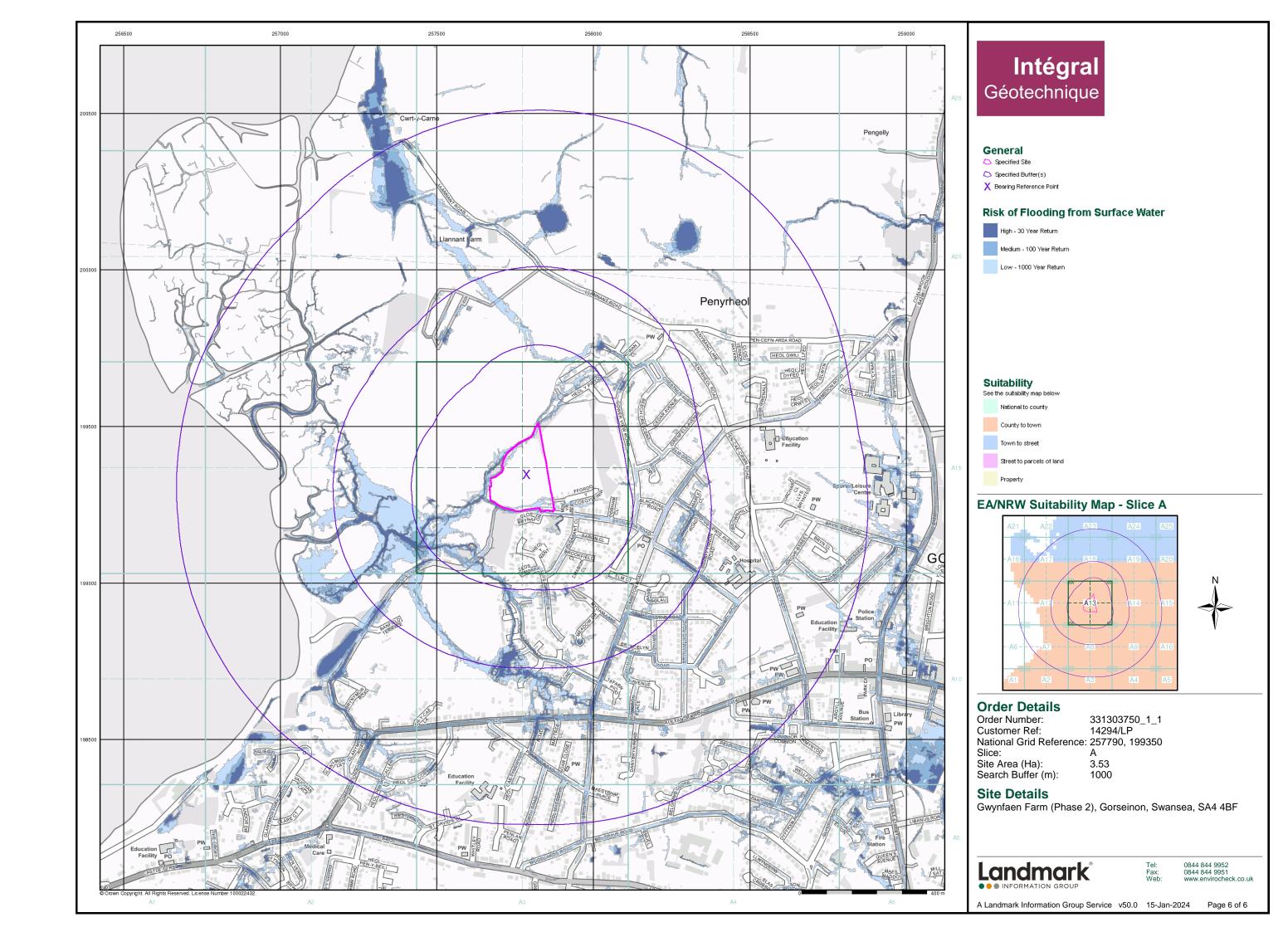
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

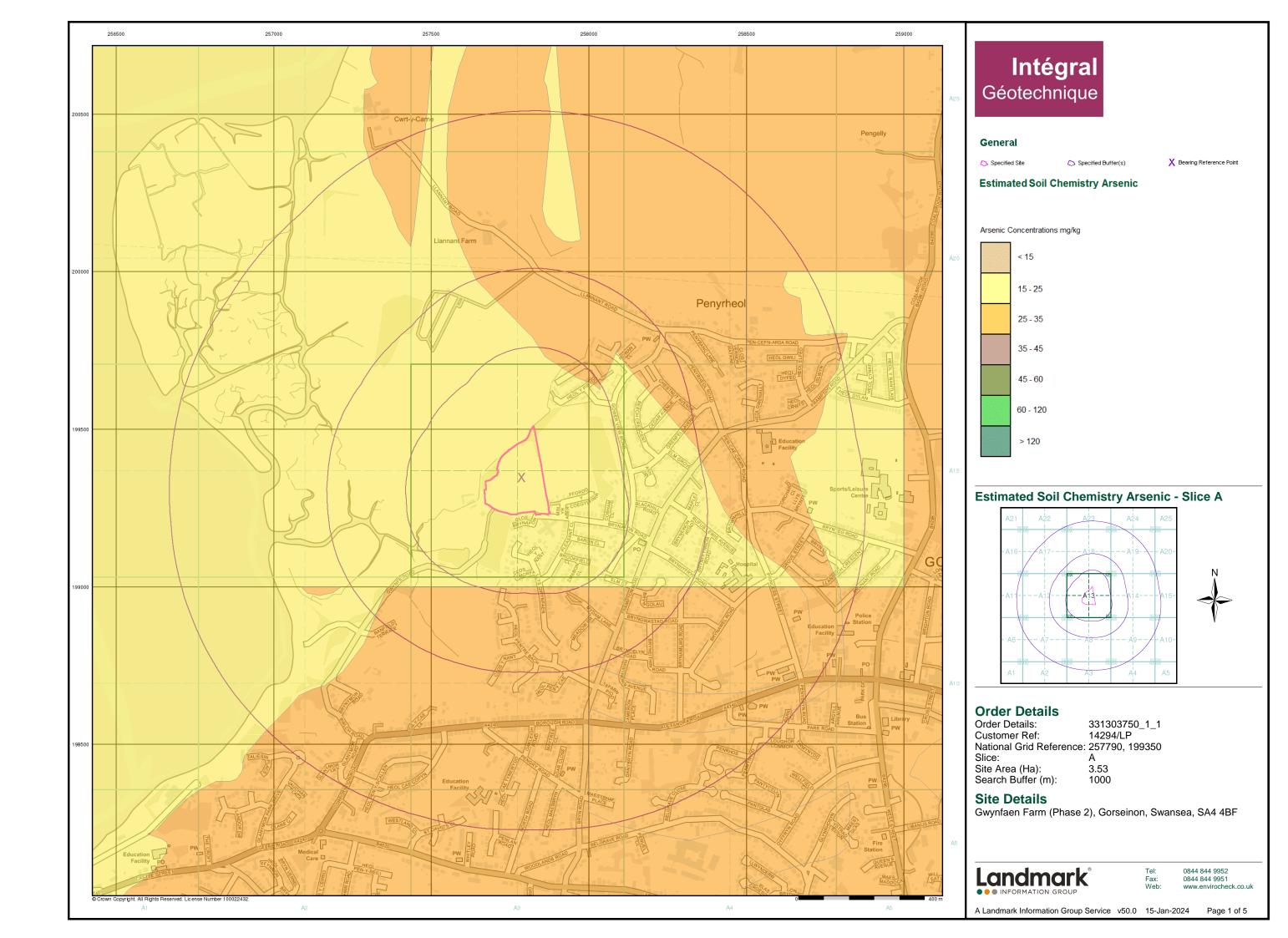
Landmark® INFORMATION GROUP

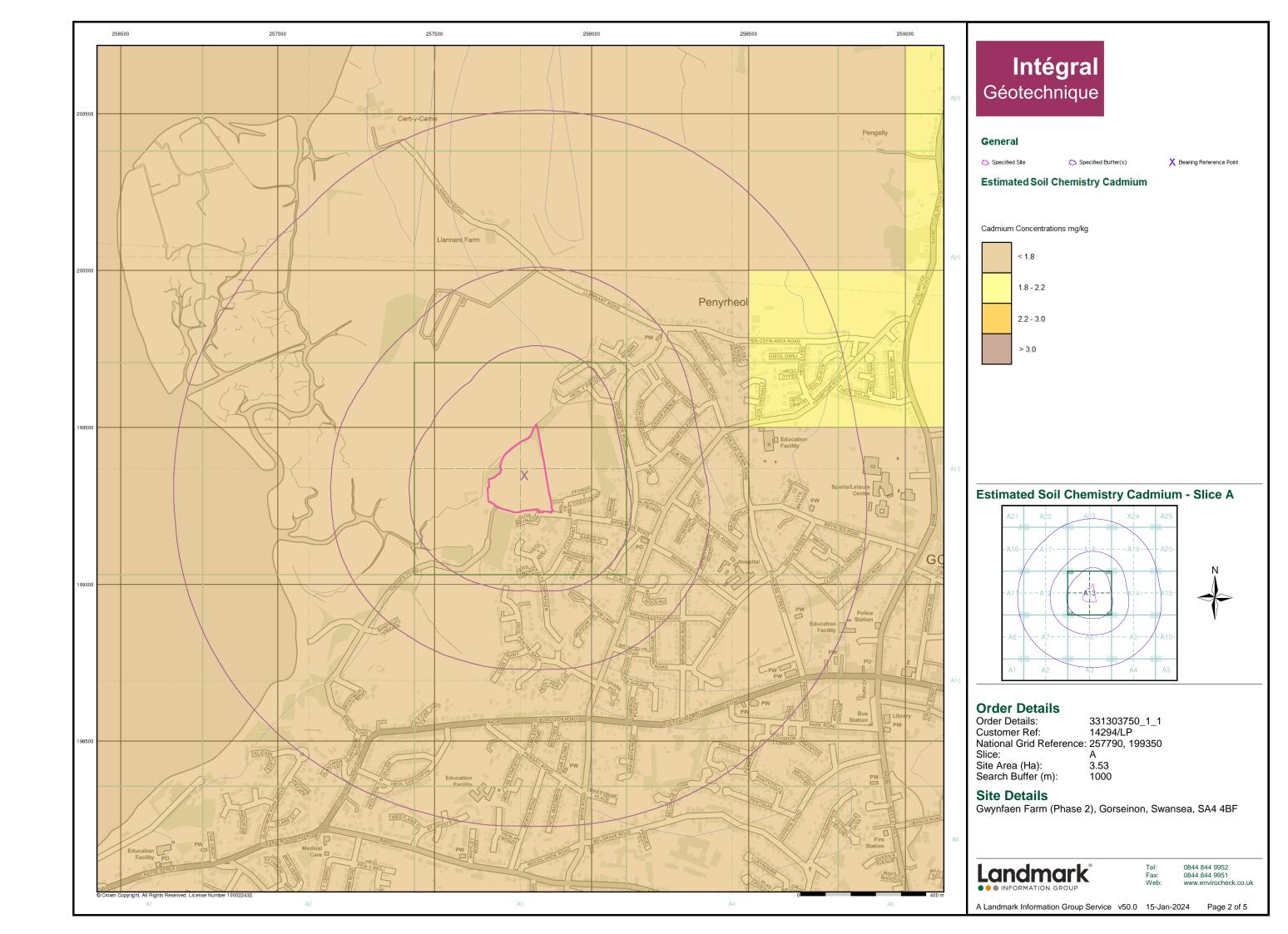
Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirocheck.co.uk

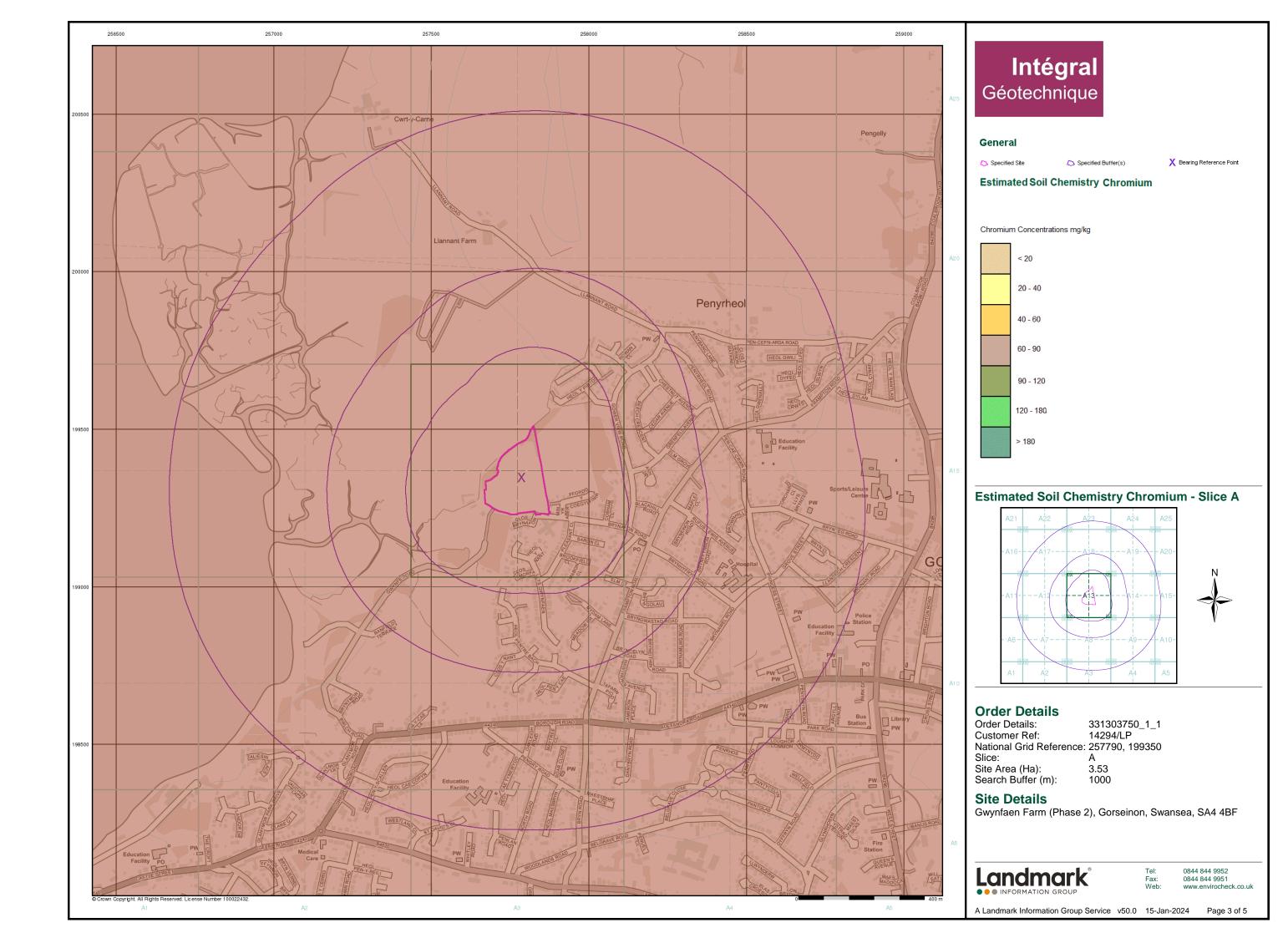
A Landmark Information Group Service v50.0 15-Jan-2024 Page 4 of 6

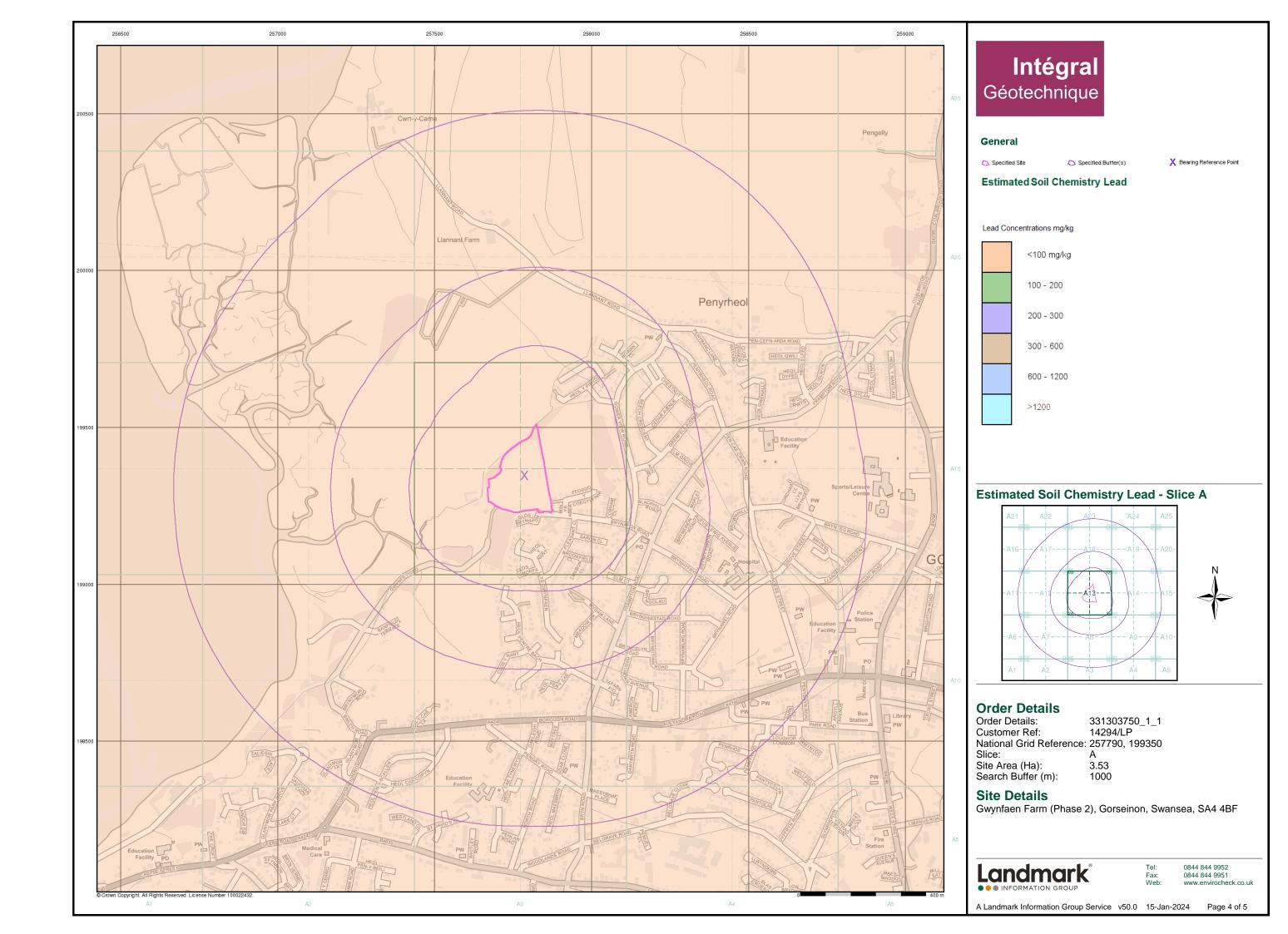


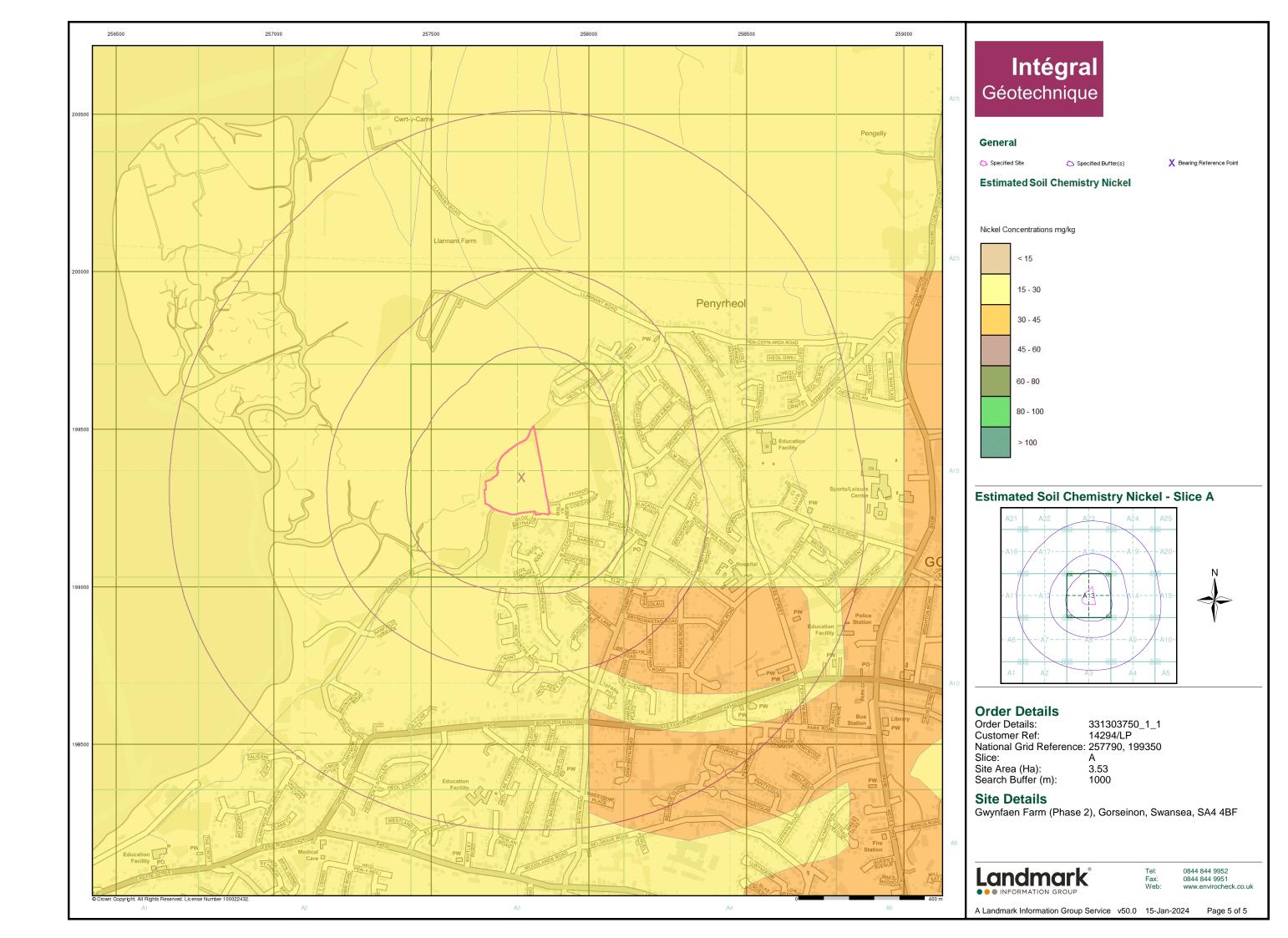


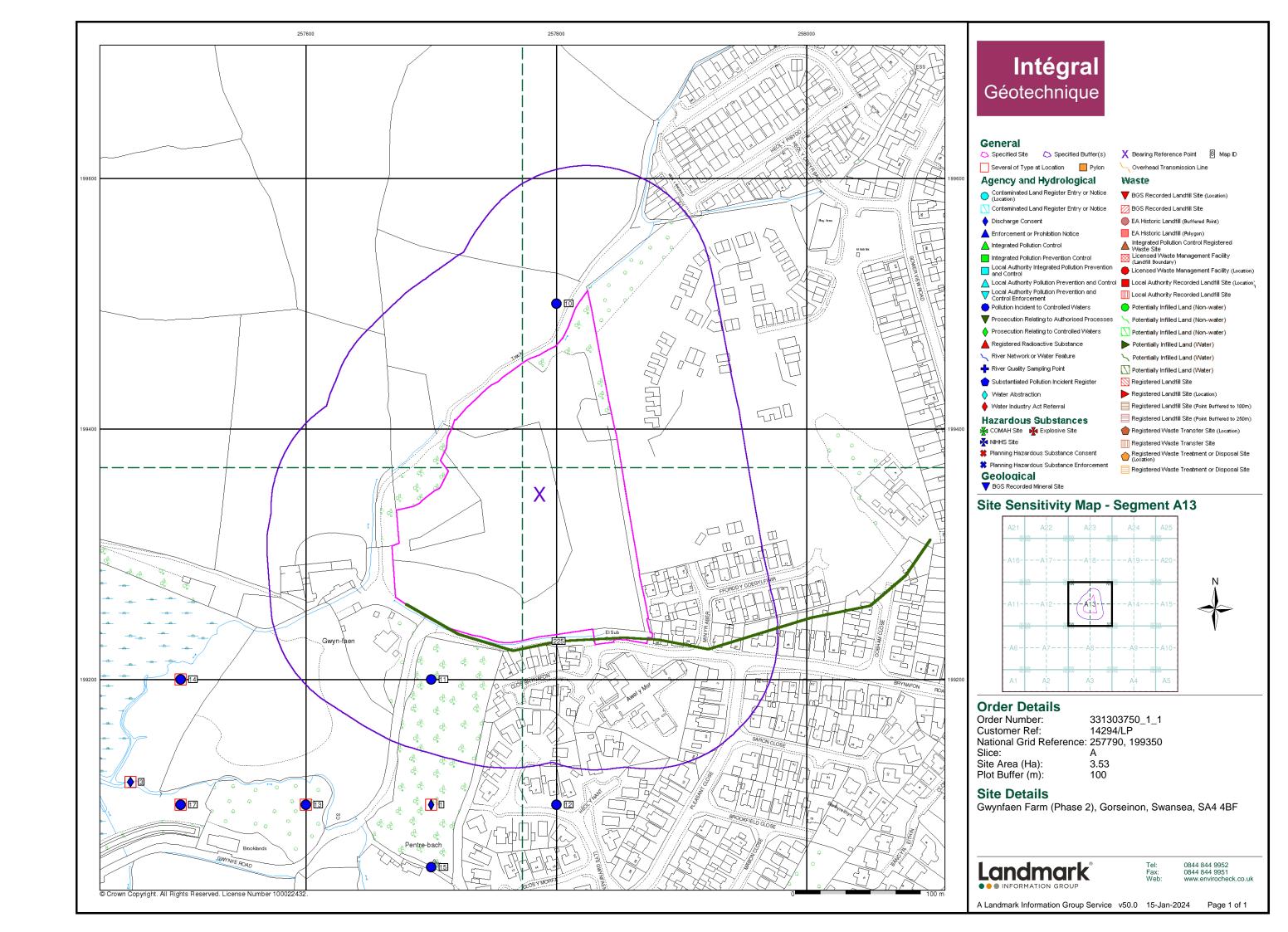












Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene
Z	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Silt and Clay	Not Supplied - Holocene
	TFD	Tidal Flat Deposits	Sand, Silt and Clay	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFSD	Glaciofluvial Sheet Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	GDB	Grovesend Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	GDB	Grovesend Formation	Sandstone	Not Supplied - Westphalian
	SW	Swansea Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	Н	Hughes Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

Intégral Géotechnique

Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial

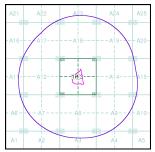
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 247
Map Name: Swansea
Map Date: 2011
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Mes Sured

Artificial Geology: Available
Faults: Not Supplied
Landslip: Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A





Order Details:

Order Number: 331303750_1_1
Customer Reference: 14294/LP
National Grid Reference: 257790, 199350
Slice: A
Site Area (Ha): 3.53
Search Buffer (m): 1000

Site Details:

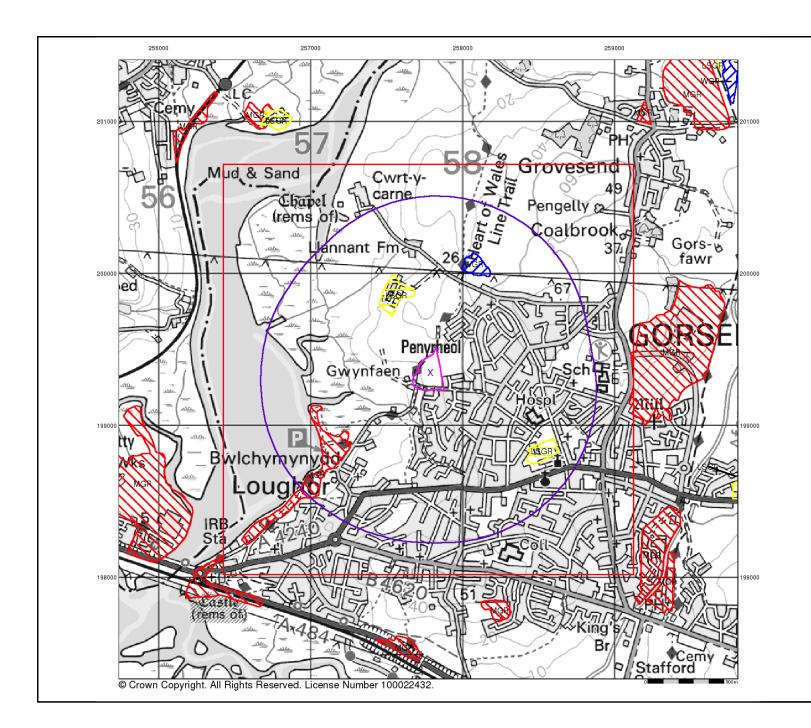
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



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

v15.0 15-Jan-2024

Page 1 of 5



Artificial Ground and Landslip

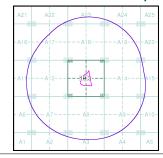
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground man-made deposits such as embankments and spoil heaps on the natural ground surface.
 Worked ground - areas where the ground has been cut away such as
- Worked ground areas where the ground has been cut away such a quarries and road cuttings.
- Infilled ground areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground areas where the surface has been reshaped.
 Disturbed ground areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A





Order Details:

Order Number: 331303750_1_1
Customer Reference: 14294/LP
National Grid Reference: 257790, 199350
Slice: A
Site Area (Ha): 3.53

Site Area (Ha): 3.53 Search Buffer (m): 1000

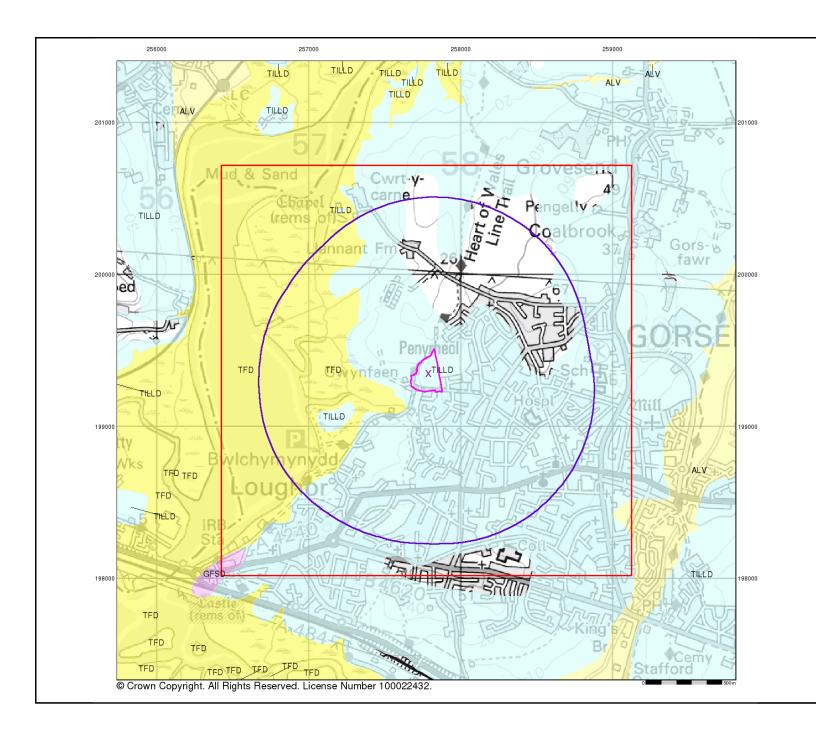
Site Details:

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



rel: 0844 844 9952 rax: 0844 844 9951 Veb: www.envirocheck.c

v15.0 15-Jan-2024



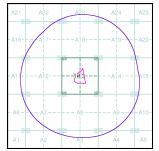
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A





Order Details:

 Order Number:
 331303750_1_1

 Customer Reference:
 14294/LP

 National Grid Reference:
 257790, 199350

 Slice:
 A

 Site Area (Ha):
 3.53

 Search Buffer (m):
 1000

Site Details:

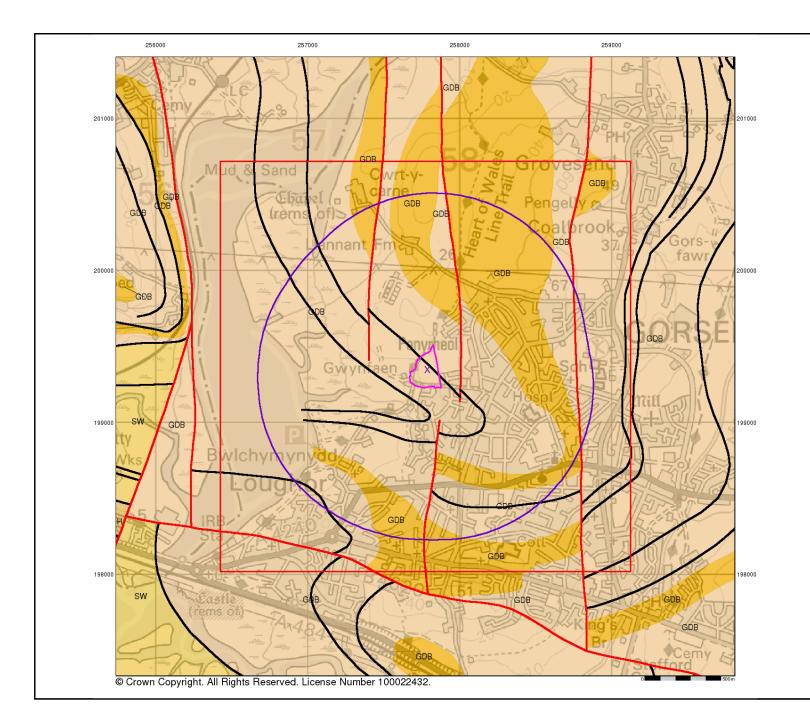
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



Tel: 0844 844 9952 Fax: 0844 844 9951 Veb: www.envirocheck.co

v15.0 15-Jan-2024

Page 3 of 5



Bedrock and Faults

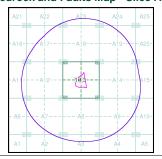
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Plicoene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A





Order Details:

 Order Number:
 331303750_1_1

 Customer Reference:
 14294/LP

 National Grid Reference:
 257790, 199350

 Slice:
 A

 Site Area (Ha):
 3.53

 Search Buffer (m):
 1000

Site Details:

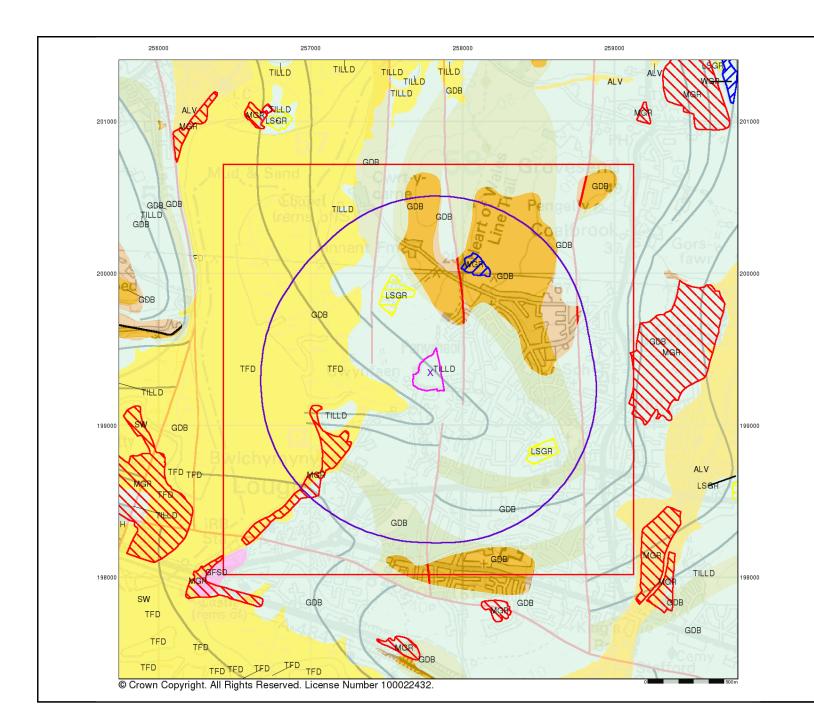
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



Fel: 0844 844 9952 Fax: 0844 844 9951 Veb: www.envirocheck.c

v15.0 15-Jan-2024

Page 4 of 5



Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

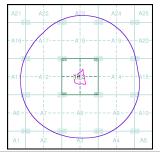
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey Kingsley Dunham Centre Keyworth Nottingham NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 email: enquiries@bgs.ac.uk website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 331303750_1_1
Customer Reference: 14294/LP
National Grid Reference: 257790, 199350
Slice: A
Site Area (Ha): 3.53
Search Buffer (m): 1000

Site Details:

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



Tel: 0844 844 9952 Fax: 0844 844 9951 Veb: www.envirocheck.c

v15.0 15-Jan-2024

Page 5 of 5

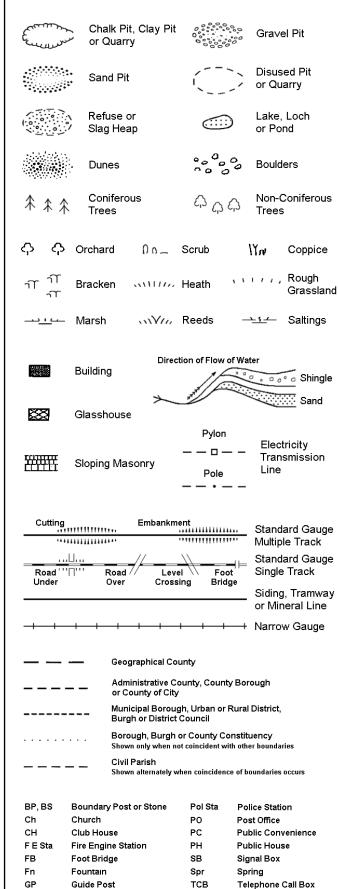
Historical Mapping Legends

Ordnance Survey County Series 1:10,560 Other Gravel Orchard Osiers Mixed Wood Deciduous Brushwood Furze Rough Pasture Arrow denotes Trigonometrical flow of water Station Bench Mark Site of Antiquities Pump, Guide Post, Well, Spring, Signal Post **Boundary Post** ·285 Surface Level Sketched Instrumental Contour Contour Fenced Fenced Main Roads Minor Roads Un-Fenced Sunken Road Raised Road Railway over Road over Ri∨er Railway Railway over Level Crossing Road Road over Road over Road over County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England) Co. Boro. Bdy. County Burgh Boundary (Scotland) Co. Burgh Bdy. Rural District Boundary

RD. Bdy.

····· Civil Parish Boundary

Ordnance Survey Plan 1:10,000



Guide Post

Mile Post

MP

Telephone Call Box

Telephone Call Post

TCP

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock	3 3	Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
mm	Slopes		Top of cliff
	General detail		Underground detail
	- Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only) District, Unitary,	• • • • •	Civil, parish or community boundary
	Metropolitan, London Borough boundary		Constituency boundary
۵ ⁰	Area of wooded vegetation	۵۵ ۵۵	Non-coniferous trees
\Diamond	Non-coniferous trees (scattered)	**	Coniferous trees
*	Coniferous trees (scattered)	$\overline{\heartsuit}$	Positioned tree
	irees (scallered)		
4 4 4 4	Orchard	K K	Coppice or Osiers
	,	W. W.	
چ چ _{۱۱} ۱۲.,	Orchard Rough	M	or Osiers
φ φ	Orchard Rough Grassland	"" "" "" "" "" "" "" "" "" "" "" "" ""	or Osiers Heath Marsh, Salt
φ φ	Orchard Rough Grassland Scrub	"" "" "" "" "" "" "" "" "" "" "" "" ""	or Osiers Heath Marsh, Salt Marsh or Reeds
\$ \$	Orchard Rough Grassland Scrub Water feature Mean high	3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	or Ösiers Heath Marsh, Salt Marsh or Reeds Flow arrows Mean low
\$ \$	Orchard Rough Grassland Scrub Water feature Mean high water (springs) Telephone line	3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	or Osiers Heath Marsh, Salt Marsh or Reeds Flow arrows Mean low water (springs) Electricity transmission line
Φ Φ Φ ωτΙ,, ωτΙ,, ωτΙ,, ωτΙ,, ωτΙ,, ωτι, ωτι, ωτι, ωτι, ωτι, ωτι, ωτι, ωτ	Orchard Rough Grassland Scrub Water feature Mean high water (springs) Telephone line (where shown) Bench mark	MLW(S)	or Osiers Heath Marsh, Salt Marsh or Reeds Flow arrows Mean low water (springs) Electricity transmission line (with poles) Triangulation
Φ Φ Φ ωτΙ,, ωτΙ,, ωτΙ,, ωτΙ,, ωτΙ,, ωτι, ωτι, ωτι, ωτι, ωτι, ωτι, ωτι, ωτ	Orchard Rough Grassland Scrub Water feature Mean high water (springs) Telephone line (where shown) Bench mark (where shown) Point feature (e.g. Guide Post	M	or Osiers Heath Marsh, Salt Marsh or Reeds Flow arrows Mean low water (springs) Electricity transmission line (with poles) Triangulation station Pylon, flare stack

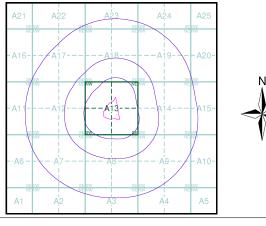
Building

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	3
Carmarthenshire	1:10,560	1889	4
Glamorganshire	1:10,560	1900 - 1901	5
Carmarthenshire	1:10,560	1907 - 1908	6
Carmarthenshire	1:10,560	1921	7
Carmarthenshire	1:10,560	1935 - 1936	8
Carmarthenshire	1:10,560	1938	9
Carmarthenshire	1:10,560	1951	10
Ordnance Survey Plan	1:10,000	1964	11
Ordnance Survey Plan	1:10,000	1969	12
Ordnance Survey Plan	1:10,000	1974	13
Swansea	1:10,000	1976	14
Ordnance Survey Plan	1:10,000	1980 - 1989	15
Ordnance Survey Plan	1:10,000	1993	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2023	19

Historical Map - Slice A



Order Details

Order Number: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

3.53 Site Area (Ha): Search Buffer (m): 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9952 0844 844 9951

A Landmark Information Group Service v50.0 15-Jan-2024 Page 1 of 19

Russian Military Mapping Legends

♀ медн.

Mine or

Open Pit Mine

Δ

Tailings Pile

Fuel Storage or

Natural Gas Tank

= 6.mp.

Transformer

Station

△ 92.6

Triangulation

T

Telephone

Station

Landing Strip

Improved Dirt Road

(former truck road)

Water Gauge

Water Level Mark

Isobath with value

o 347.1

Spot Elevation

Value

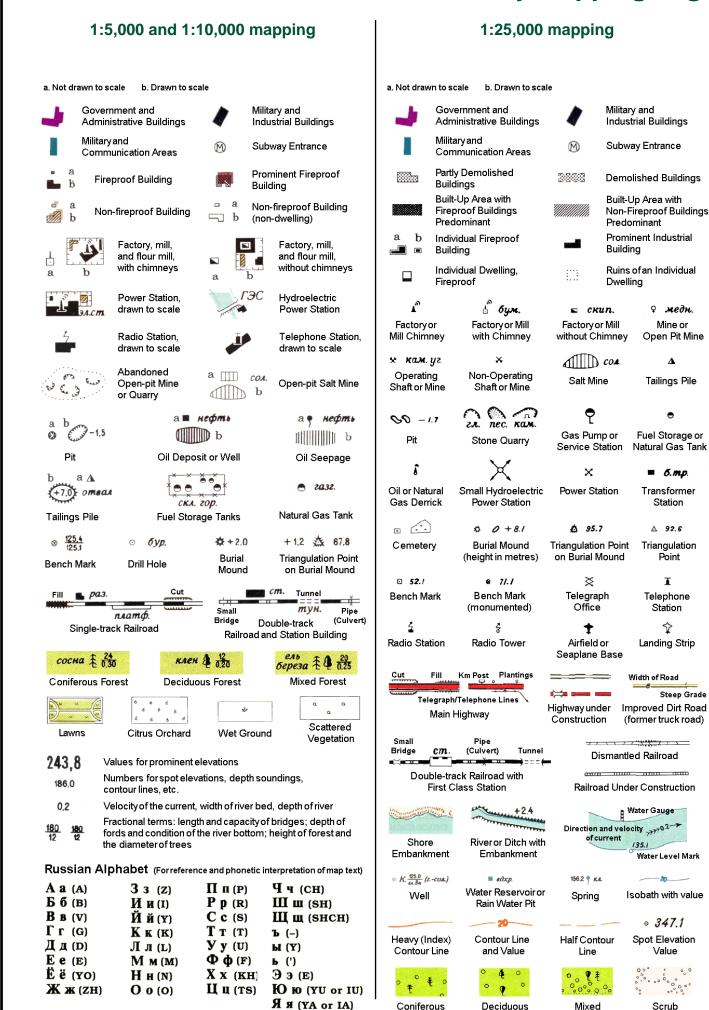
Scrub

135.1

Deciduous

Mixed

Steep Grade



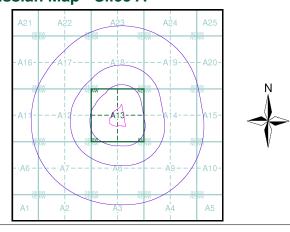
Key to Numbers on Mapping

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	3
Carmarthenshire	1:10,560	1889	4
Glamorganshire	1:10,560	1900 - 1901	5
Carmarthenshire	1:10,560	1907 - 1908	6
Carmarthenshire	1:10,560	1921	7
Carmarthenshire	1:10,560	1935 - 1936	8
Carmarthenshire	1:10,560	1938	9
Carmarthenshire	1:10,560	1951	10
Ordnance Survey Plan	1:10,000	1964	11
Ordnance Survey Plan	1:10,000	1969	12
Ordnance Survey Plan	1:10,000	1974	13
Swansea	1:10,000	1976	14
Ordnance Survey Plan	1:10,000	1980 - 1989	15
Ordnance Survey Plan	1:10,000	1993	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2023	19

Russian Map - Slice A



Order Details

Order Number: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Slice: Site Area (Ha):

3.53

Search Buffer (m): 1000

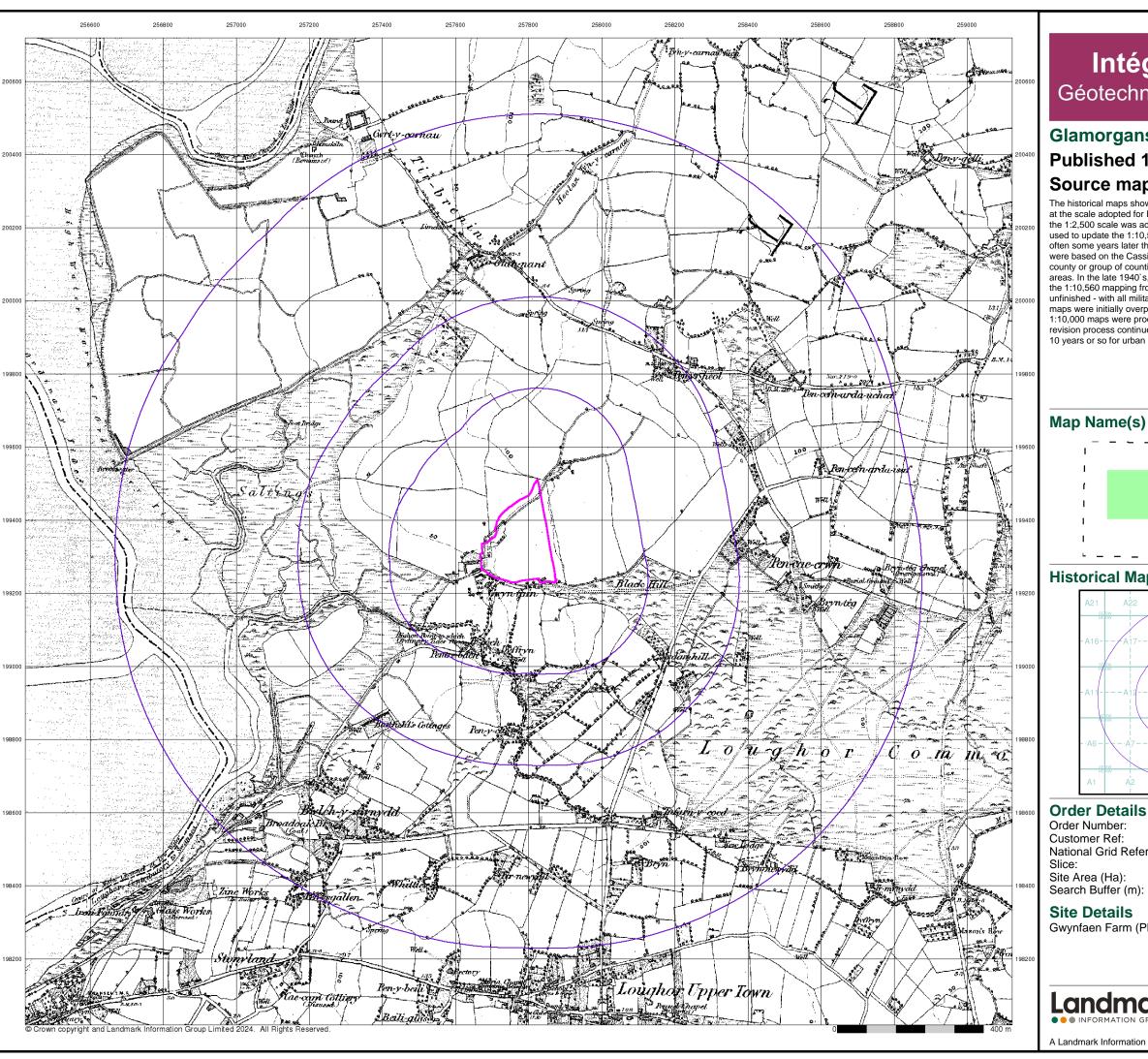
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9952 0844 844 9951

A Landmark Information Group Service v50.0 15-Jan-2024 Page 2 of 19



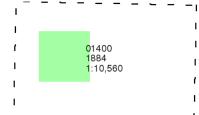
Glamorganshire

Published 1884

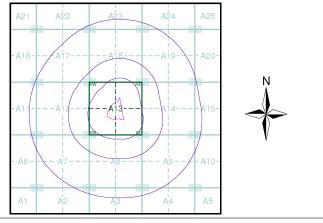
Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

3.53

Site Details

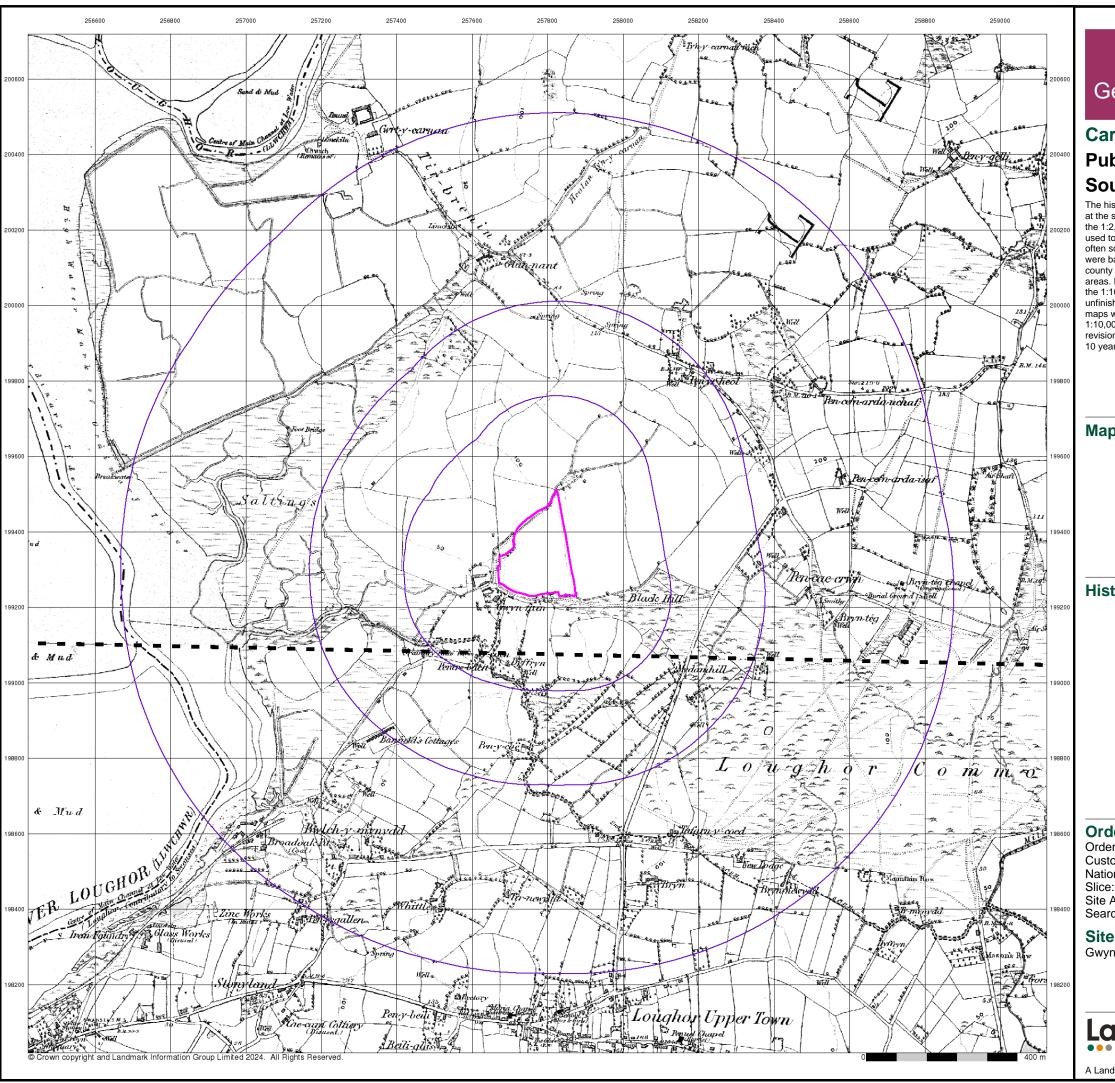
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

1000

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 3 of 19



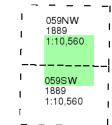
Carmarthenshire

Published 1889

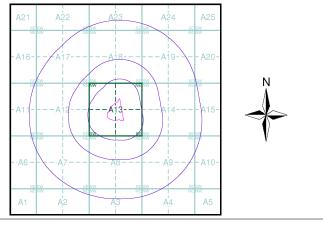
Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

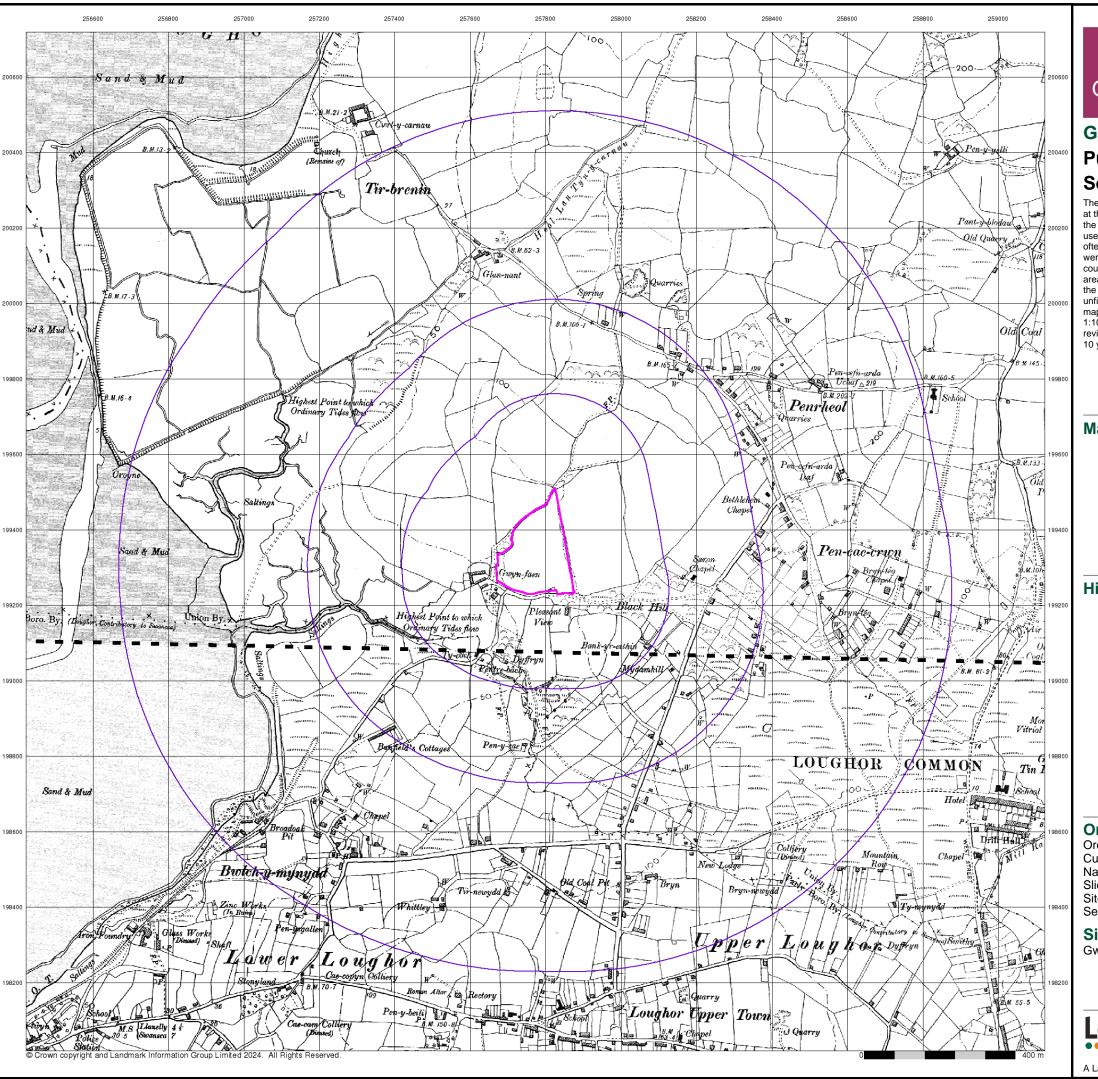
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 4 of 19

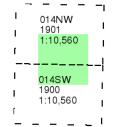


Glamorganshire

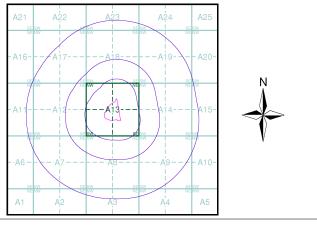
Published 1900 - 1901 Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP

Slice:

National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

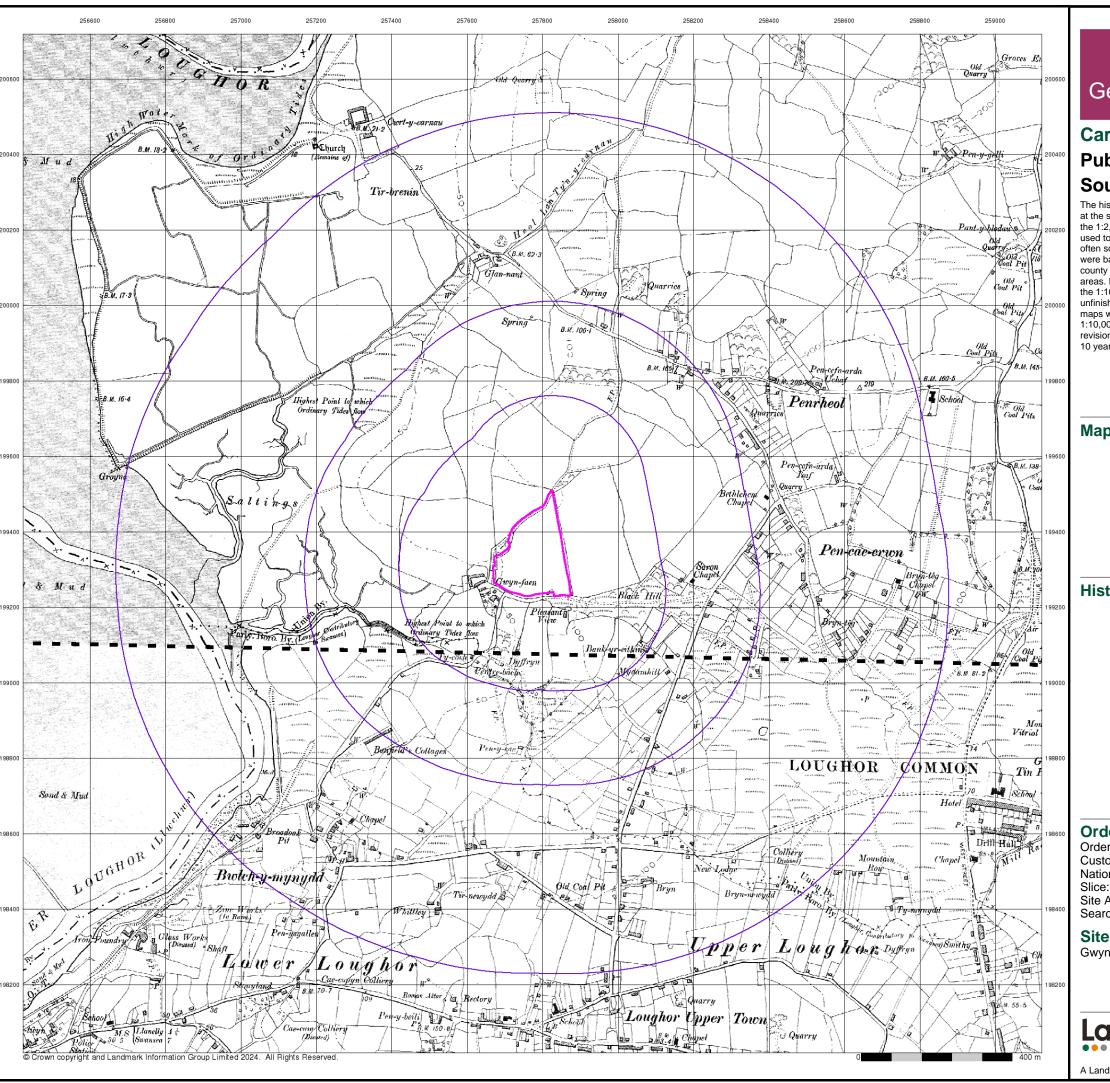
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 5 of 19

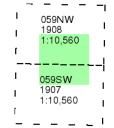


Carmarthenshire

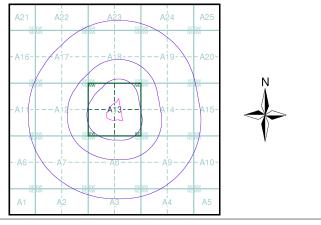
Published 1907 - 1908 Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): 3.53 Search Buffer (m): 1000

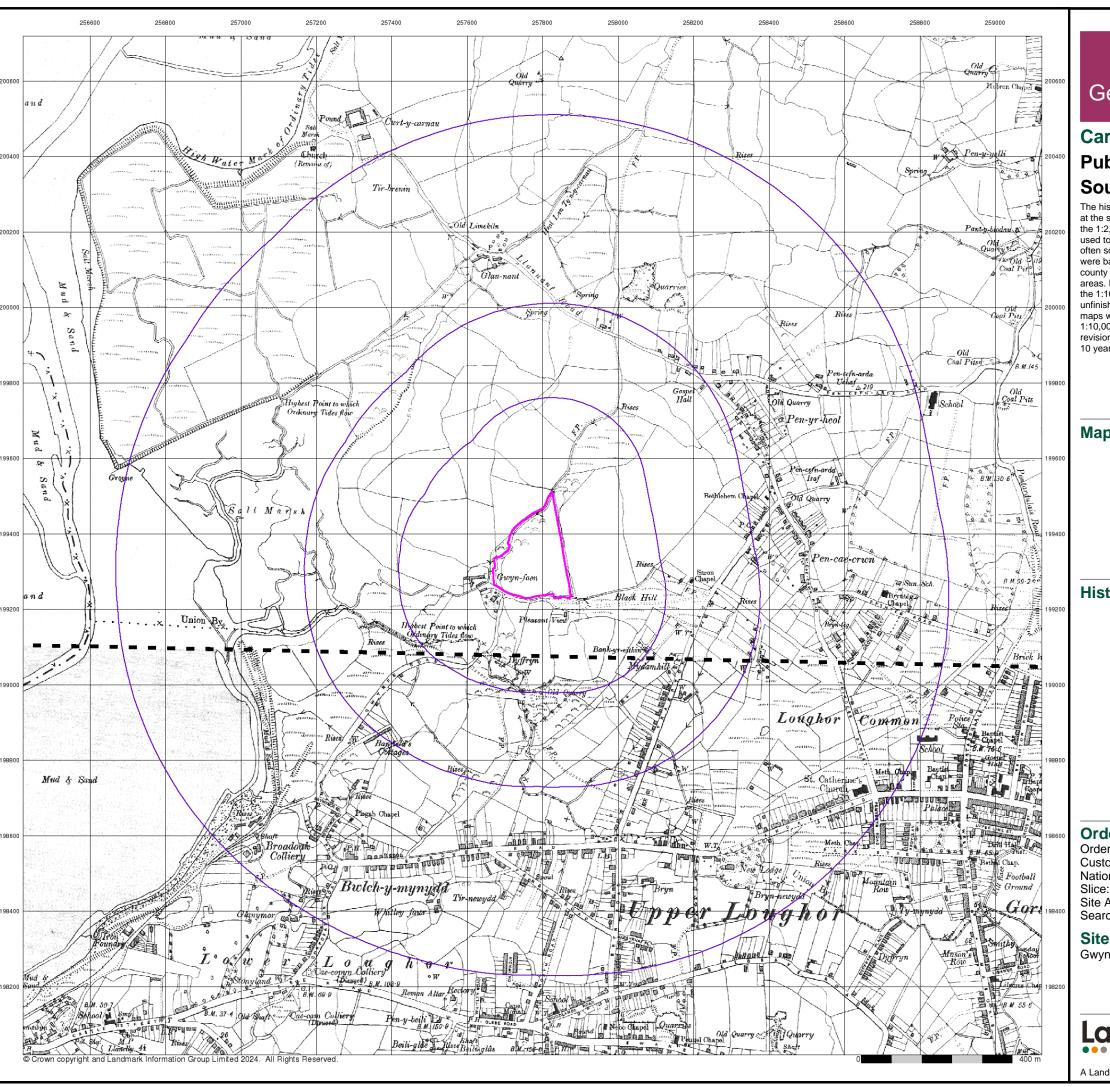
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 6 of 19



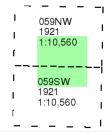
Carmarthenshire

Published 1921

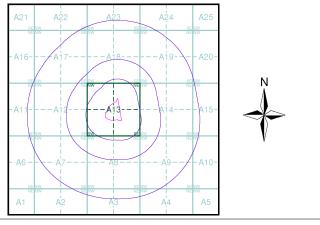
Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): 3.53 Search Buffer (m): 1000

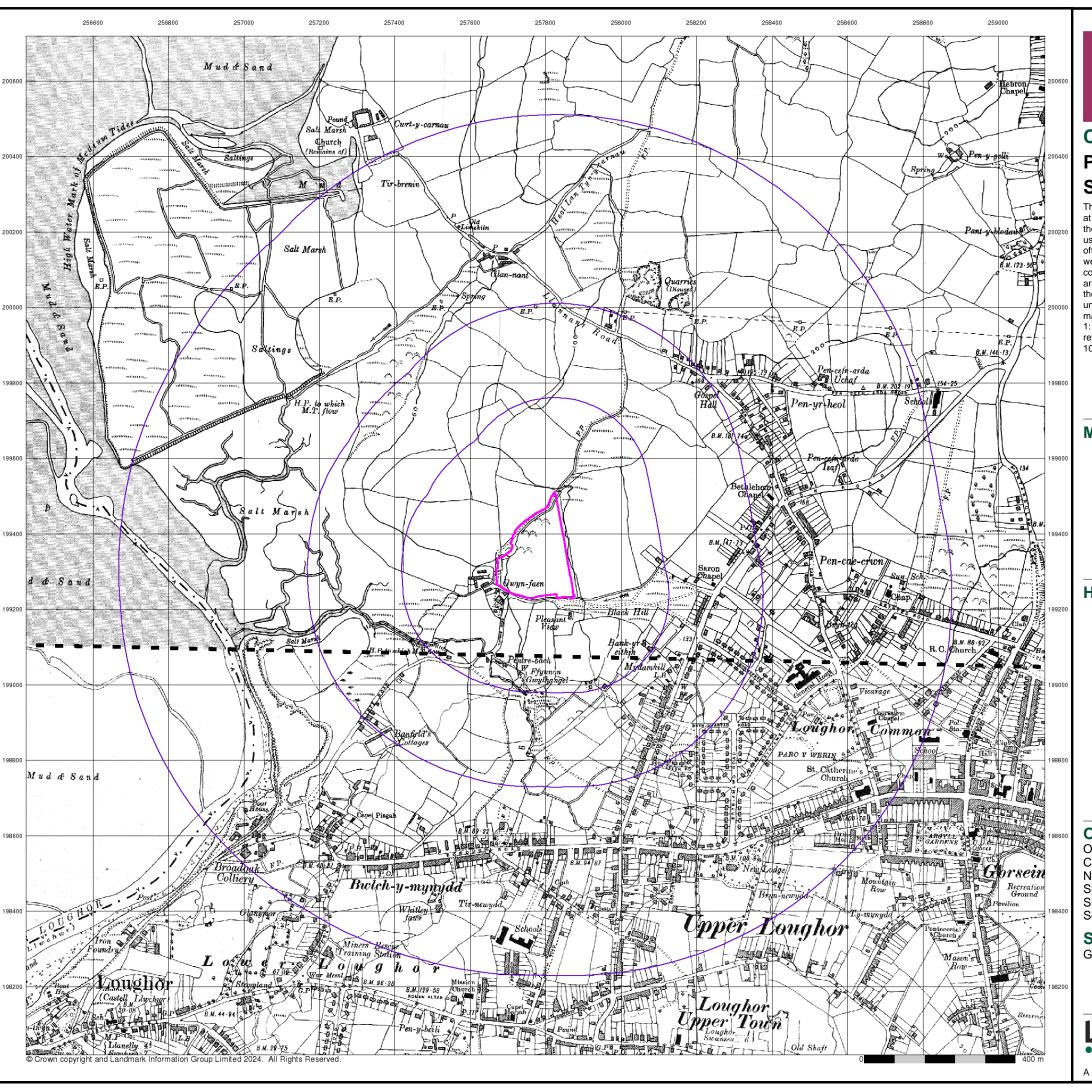
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 7 of 19

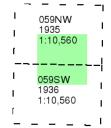


Carmarthenshire

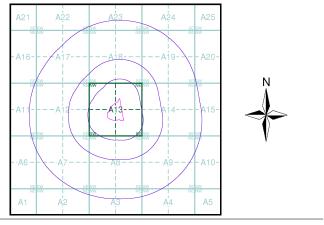
Published 1935 - 1936 Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 1000

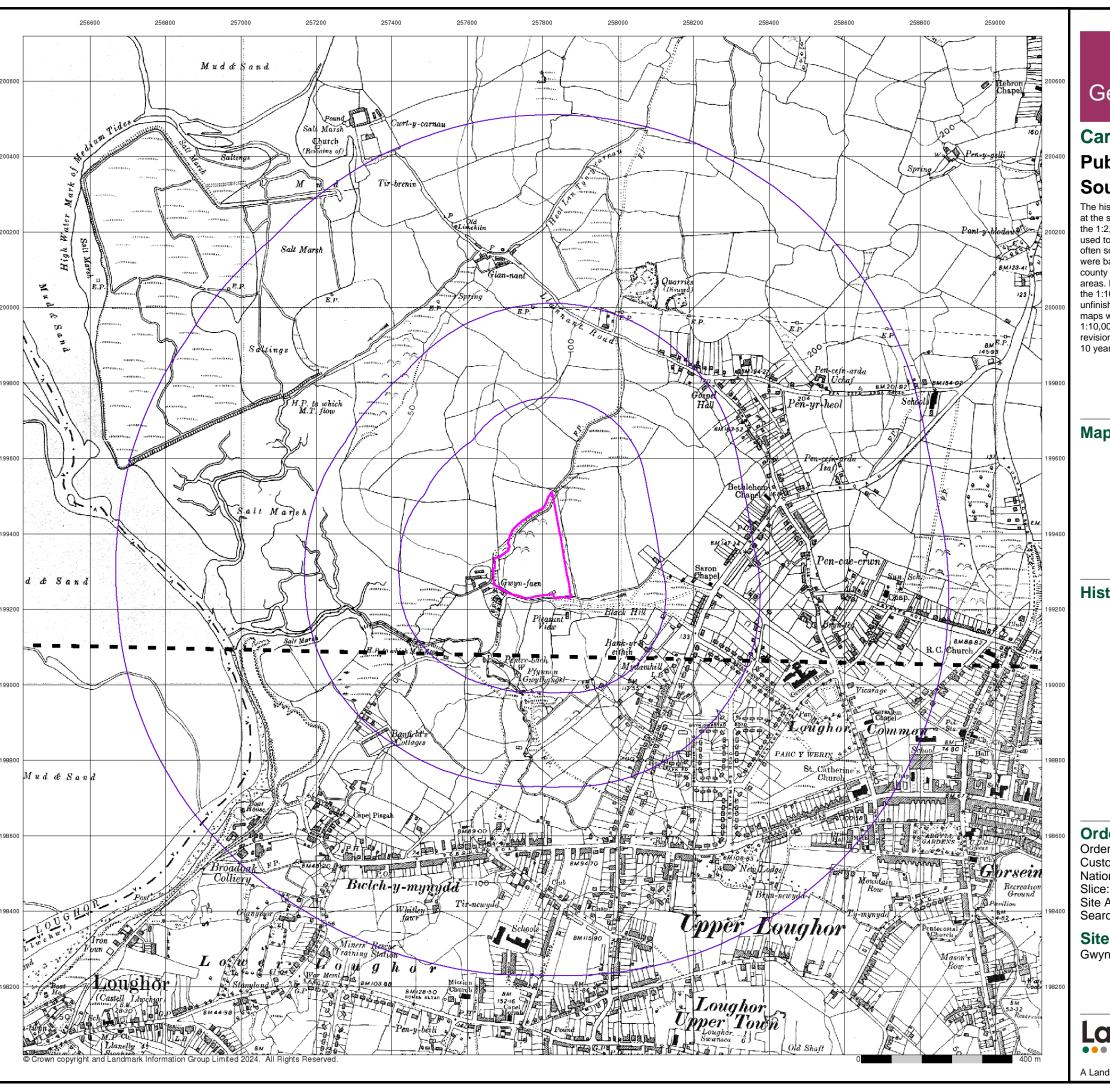
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 8 of 19



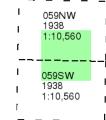
Carmarthenshire

Published 1938

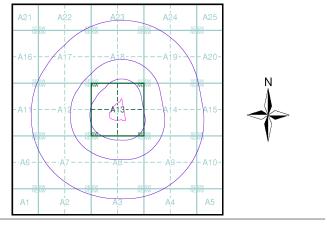
Source map scale - 1:10,560

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 9 of 19



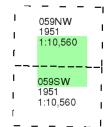
Carmarthenshire

Published 1951

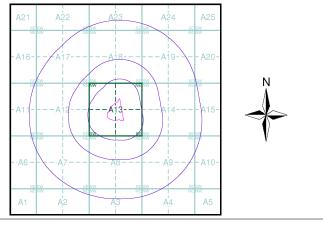
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

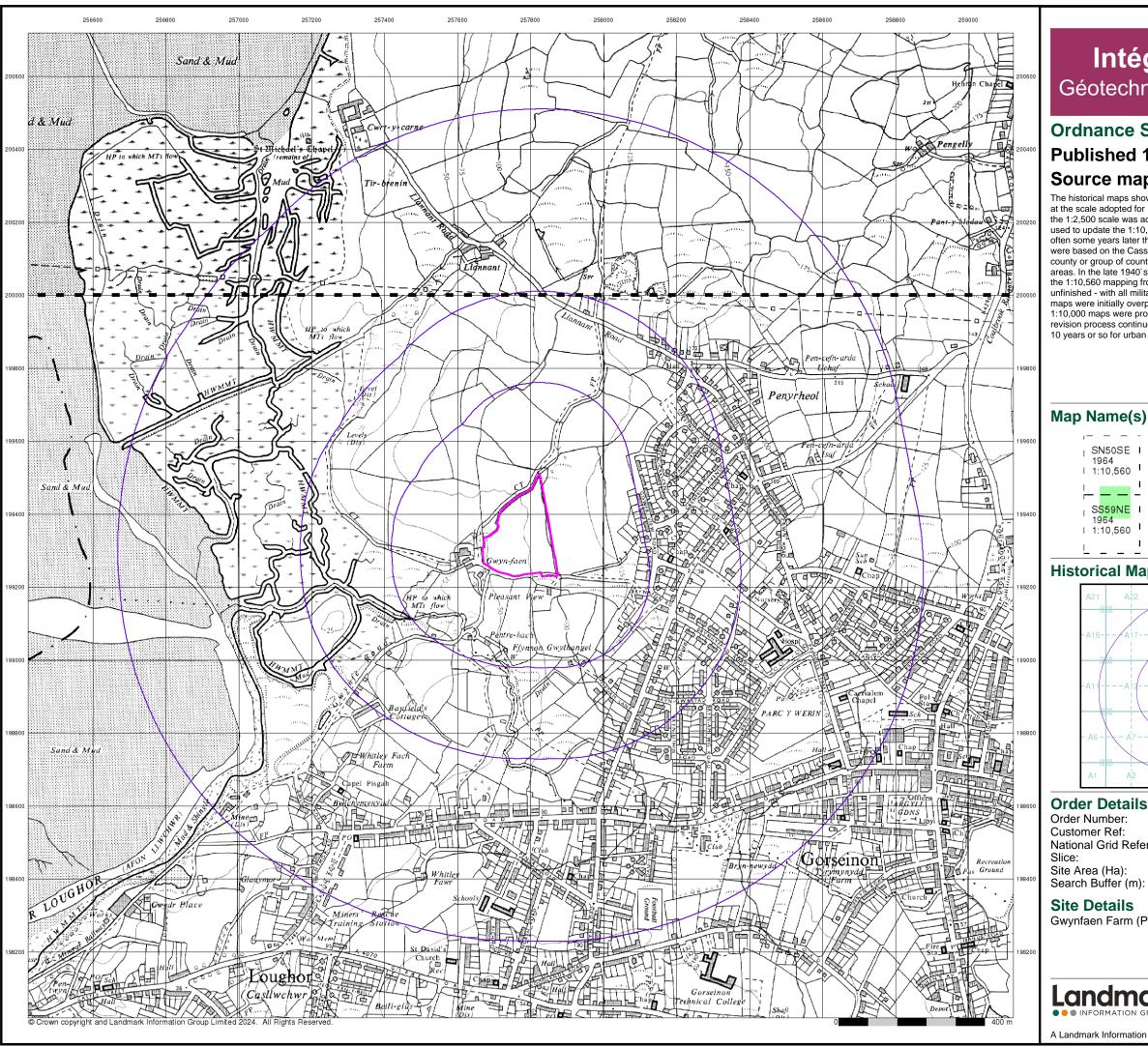
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 10 of 19

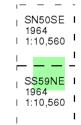


Ordnance Survey Plan Published 1964

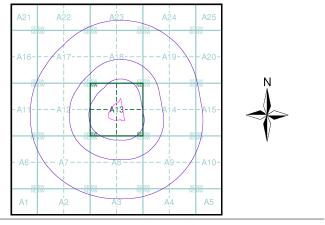
Source map scale - 1:10,000 The historical maps shown were reproduced from maps predominantly held

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): 3.53

Site Details

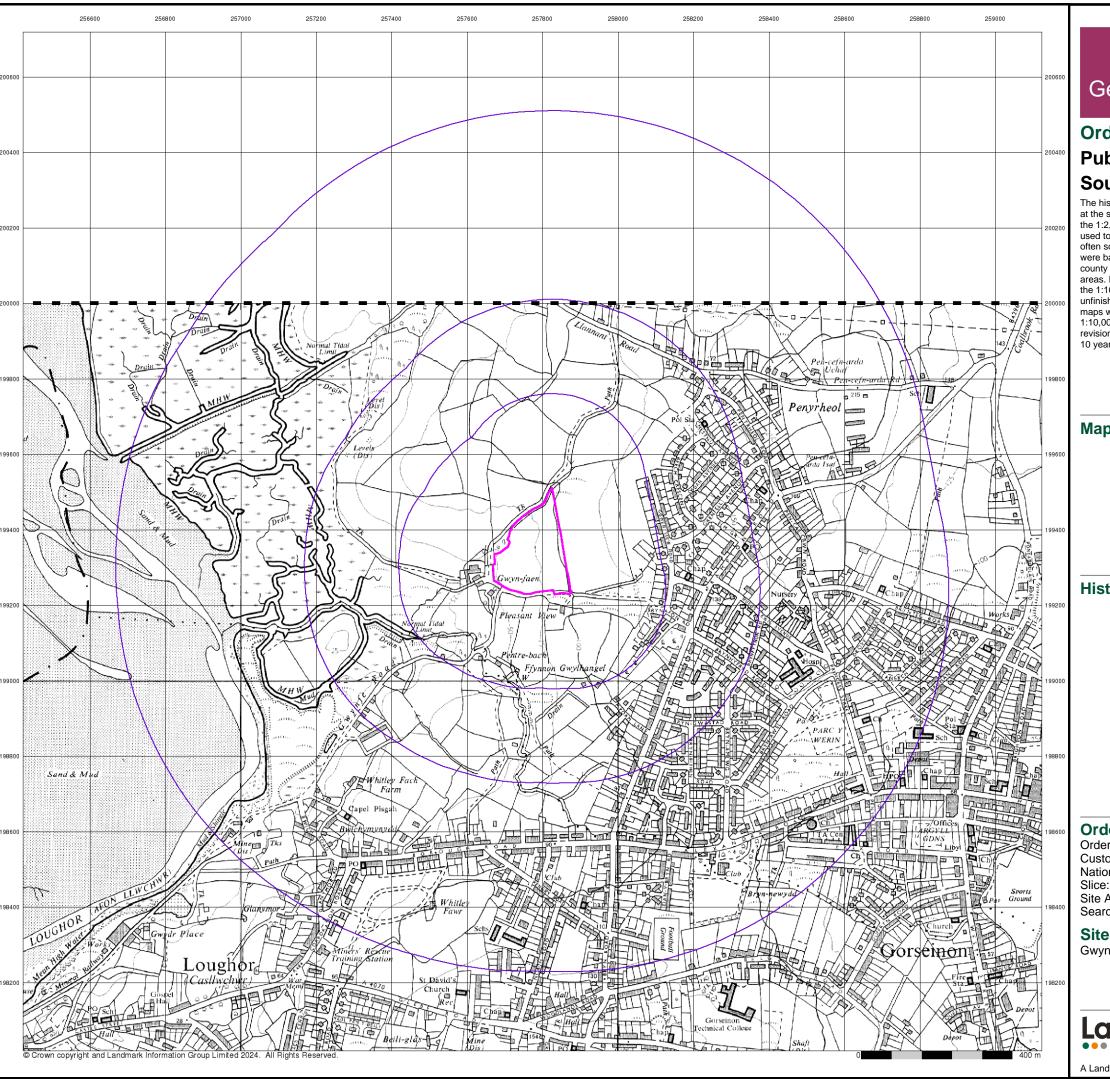
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

1000



0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 11 of 19

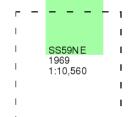


Ordnance Survey Plan Published 1969

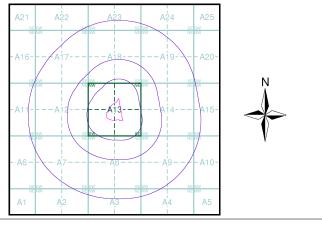
Source map scale - 1:10,000

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

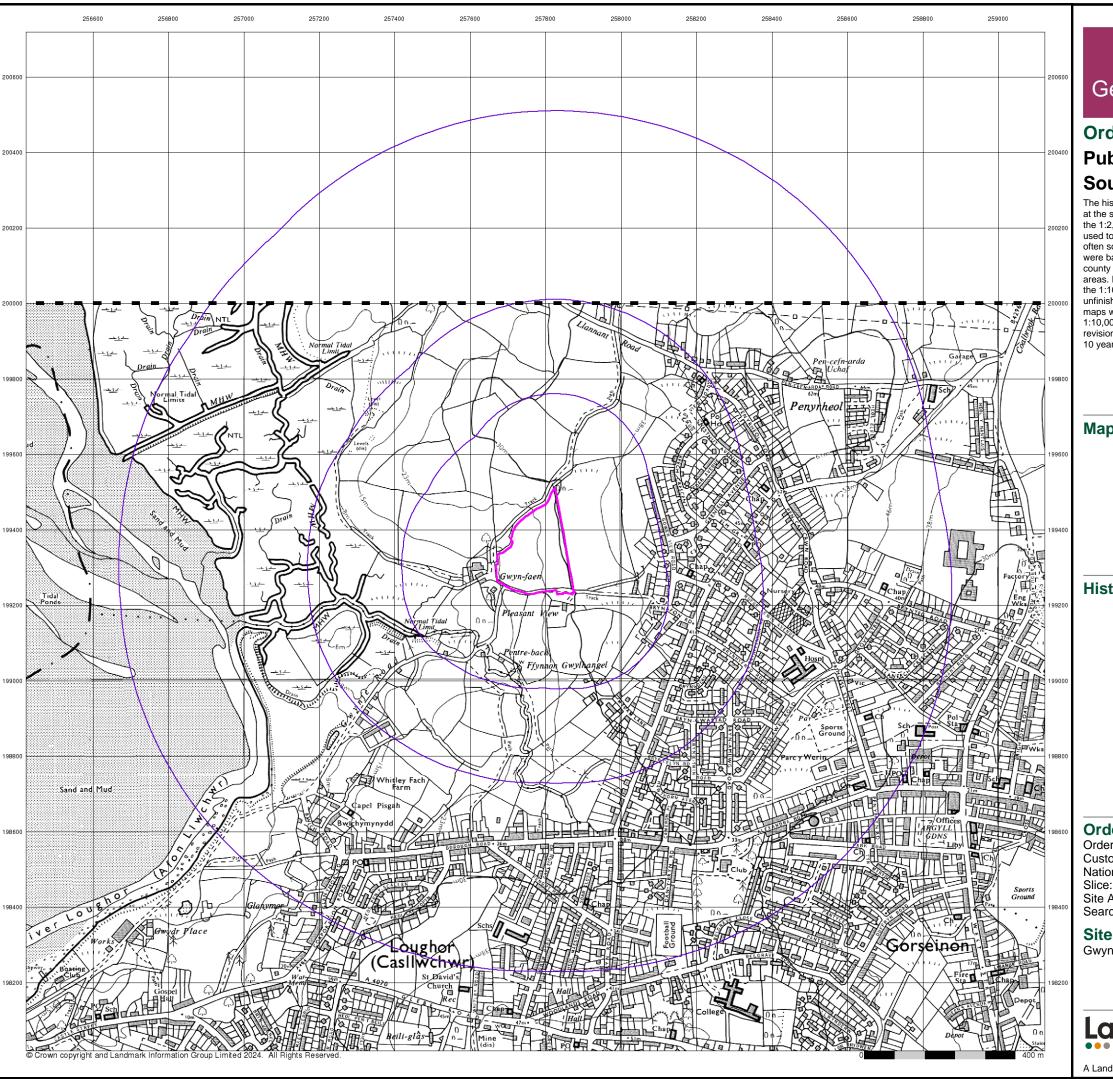
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 12 of 19



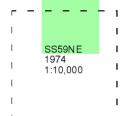
Ordnance Survey Plan

Published 1974

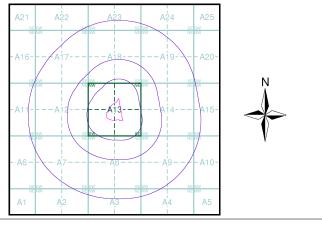
Source map scale - 1:10,000

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

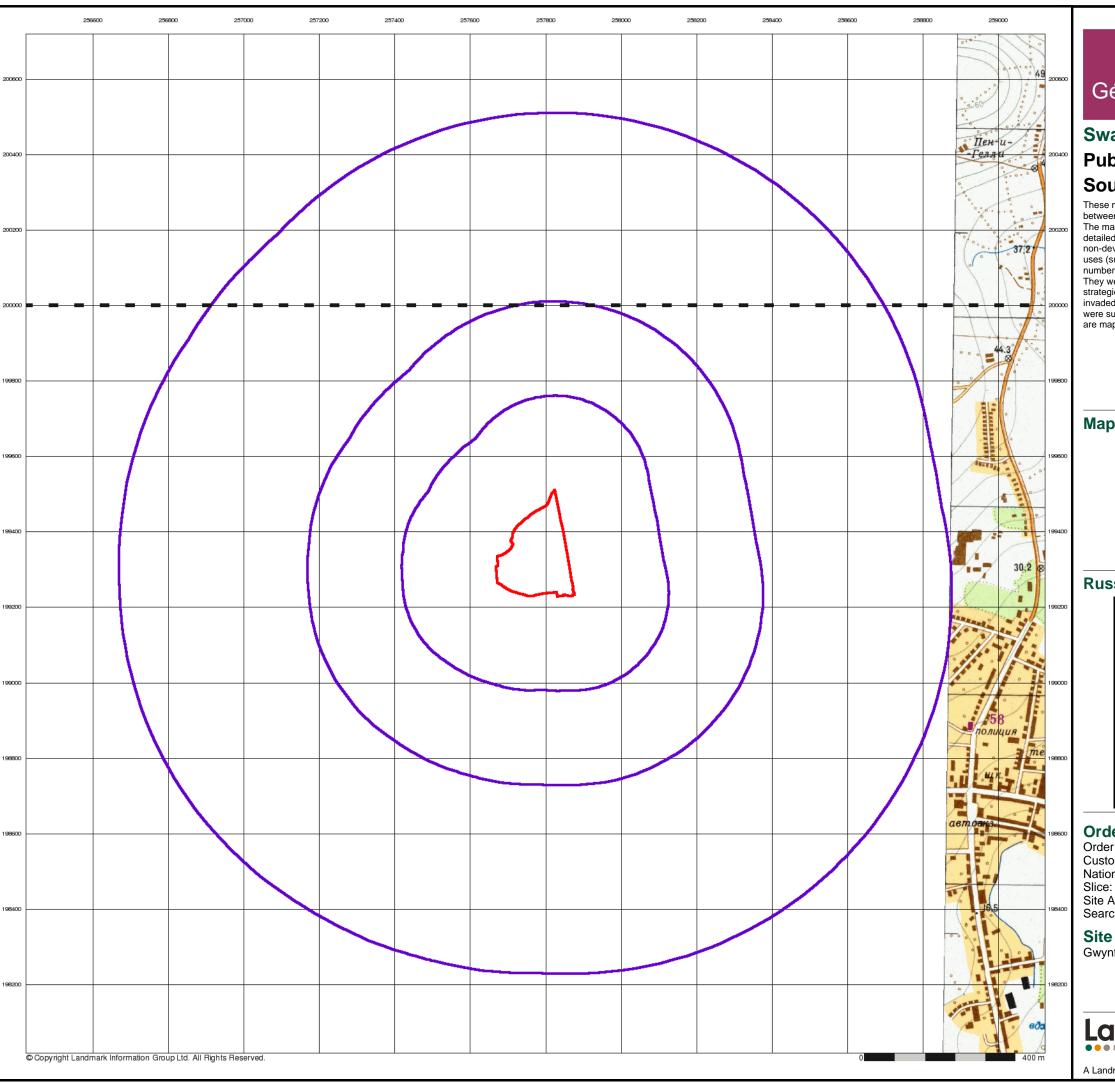
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 13 of 19



Swansea

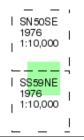
Published 1976 Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building

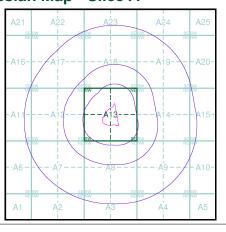
uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that

Map Name(s) and Date(s)



Russian Map - Slice A





Order Details

Order Number: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Α Site Area (Ha): Search Buffer (m): 3.53 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

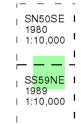
A Landmark Information Group Service v50.0 15-Jan-2024 Page 14 of 19



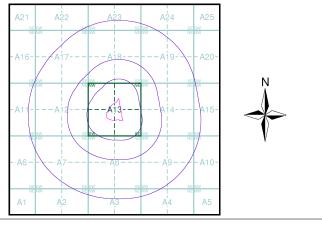
Ordnance Survey Plan Published 1980 - 1989 Source map scale - 1:10,000

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53

1000

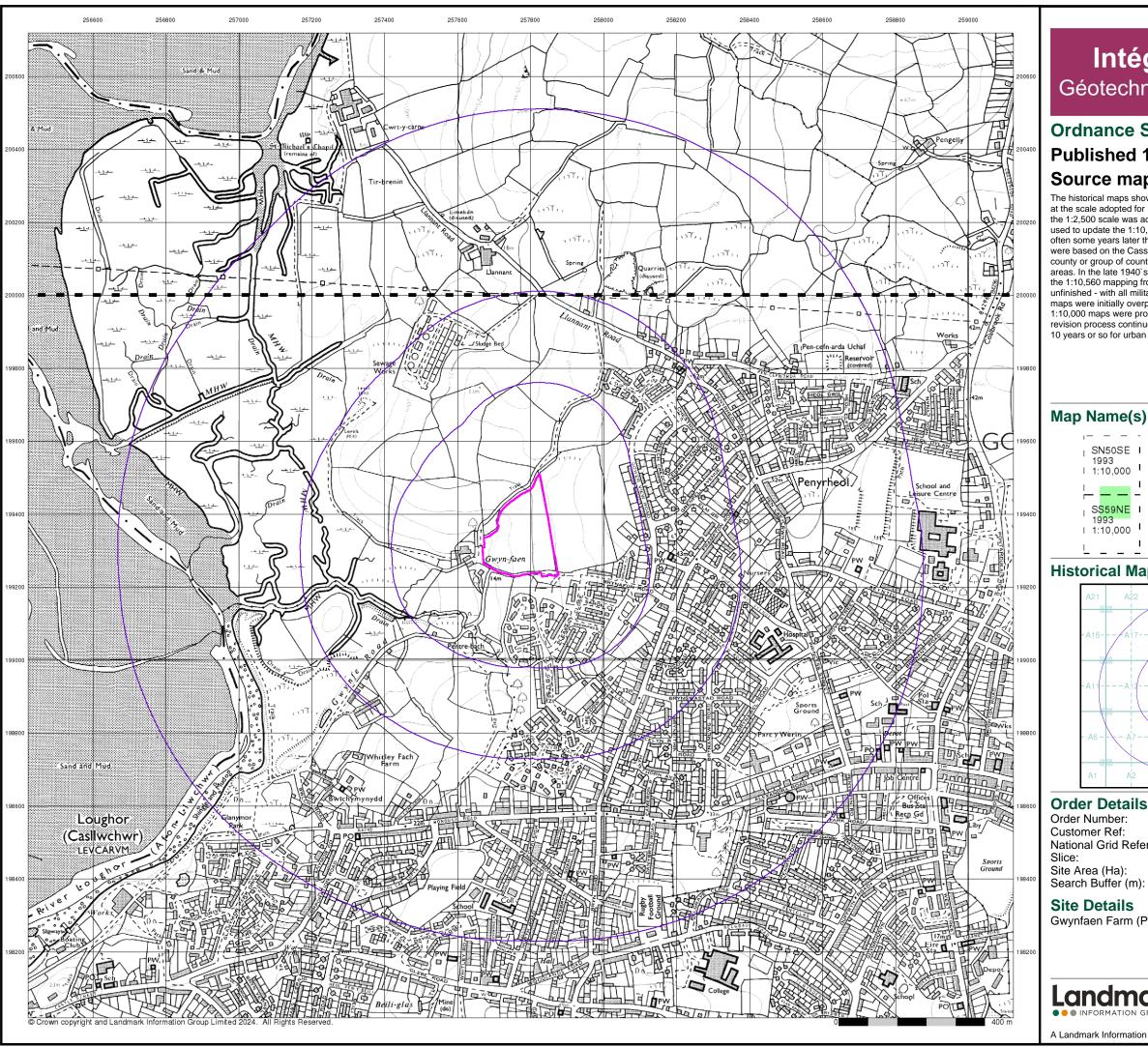
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

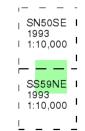
A Landmark Information Group Service v50.0 15-Jan-2024 Page 15 of 19



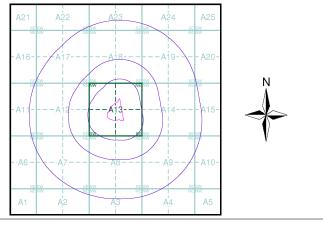
Ordnance Survey Plan Published 1993 Source map scale - 1:10,000

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: 331303750_1_1 **Customer Ref:** 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): 3.53

Site Details

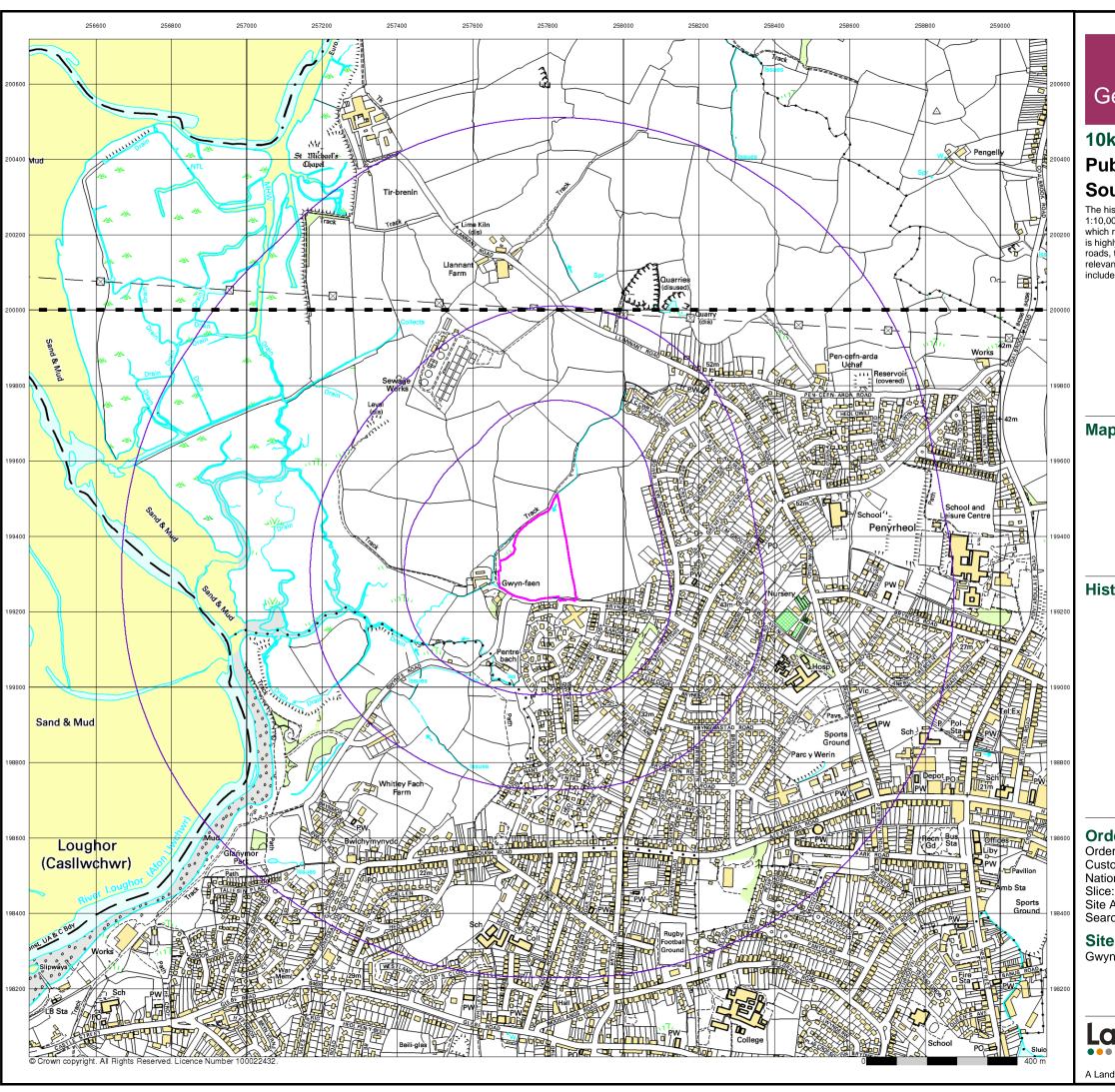
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

1000



0844 844 9951 www.envirocheck.co.uk

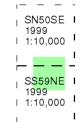
A Landmark Information Group Service v50.0 15-Jan-2024 Page 16 of 19



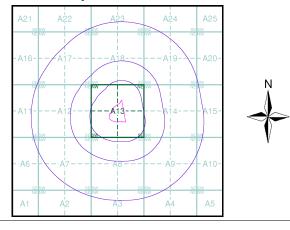
10k Raster Mapping **Published 1999** Source map scale - 1:10,000

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

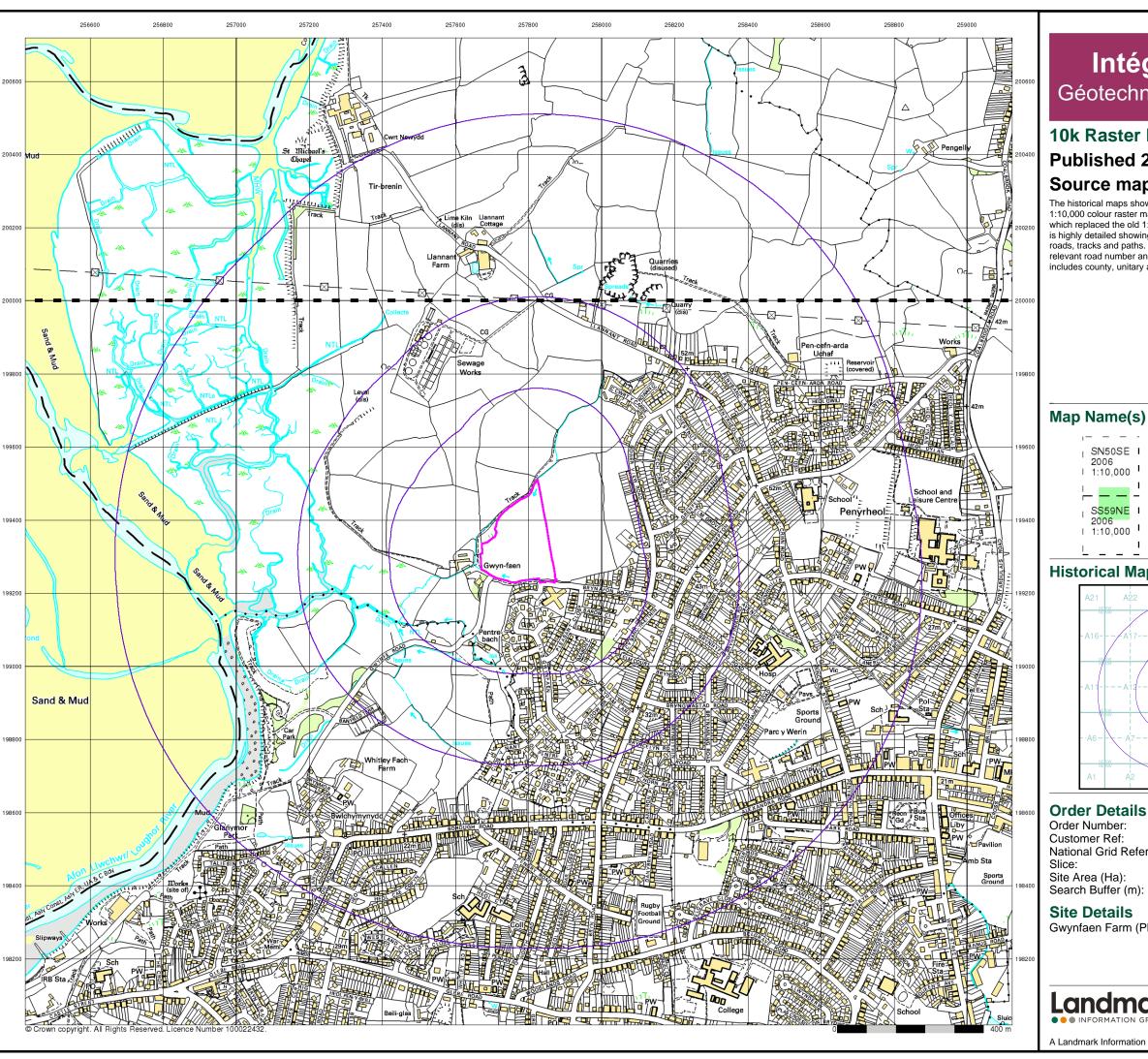
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9951 www.envirocheck.co.uk

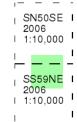
A Landmark Information Group Service v50.0 15-Jan-2024 Page 17 of 19



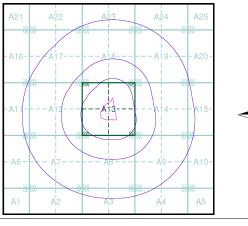
10k Raster Mapping Published 2006 Source map scale - 1:10,000

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

3.53 1000

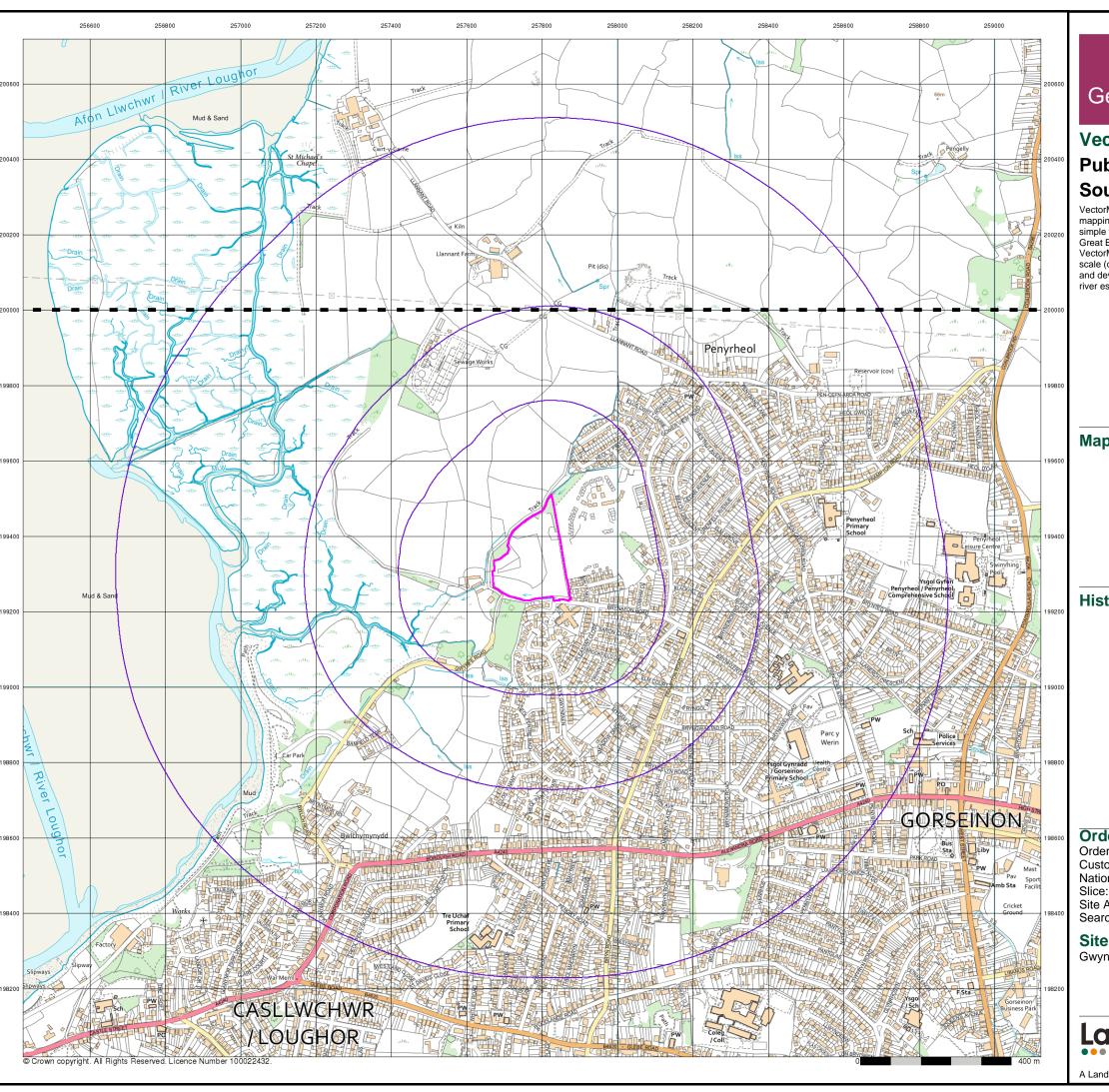
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9951 www.envirocheck.co.uk

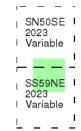
A Landmark Information Group Service v50.0 15-Jan-2024 Page 18 of 19



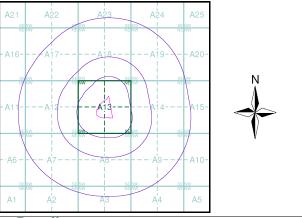
VectorMap Local Published 2023 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Site Area (Ha): Search Buffer (m): 3.53 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

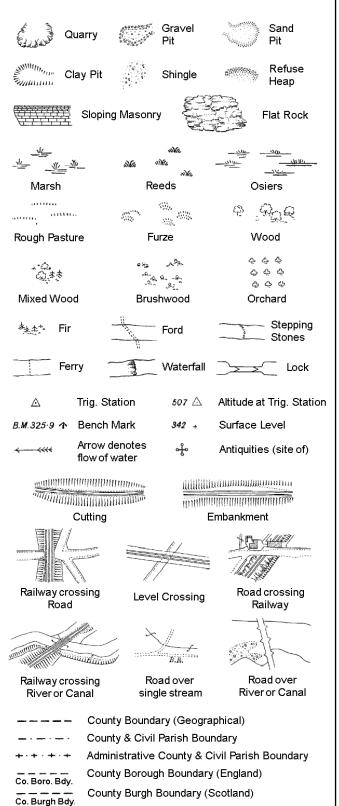
Landmark

0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 19 of 19

Historical Mapping Legends

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



B.R.

EP

F.B.

Bridle Road

Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

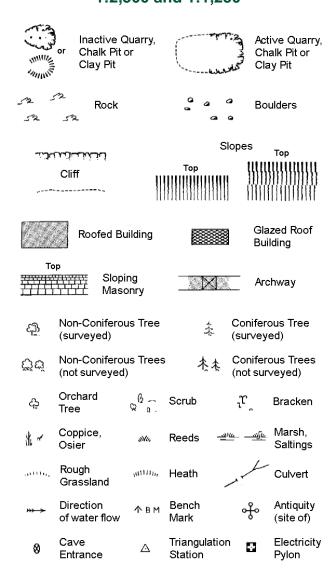
Trough Well

S.P

Sl.

Tr:

Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



ETL Elec	tricity Transmission Line
	County Boundary (Geographical)
	County & Civil Parish Boundary
	Civil Parish Boundary
· · ·	Admin. County or County Bor. Boundary
L B Bdy	London Borough Boundary
24	Symbol marking point where boundary mereing changes

вн	Beer House	Р	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
EIP	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

FΒ

GP

Filter Bed

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

Gas Valve Compound

Mile Post or Mile Stone

1:1,250

وأعالنك	لكنائب		Slo	pes Top	
	Cliff	11111111	Тор		!!!!!!
					'////'
250	Rock		7,3	Rock (scatte	ered)
\Box	Boulders		△	Boulders (se	cattered)
	Positioned	Boulder		Scree	
<u>원</u>	Non-Conife (surveyed)		*	Coniferous (surveyed)	Tree
స్టోల్	Non-Conife (not survey	erous Trees red)	春春	Coniferous (not surveye	
දා	Orchard Tree	Q ^β α. So	rub	¹Ω Bra	acken
* ~	Coppice, Osier	ων. Re	eds 🛥		arsh, Iltings
acting	Rough Grassland	_{mmin} , He	eath	CI	ılvert
>>> →	Direction of water flo		angulation ation		itiquity te of)
ETL	_ Electrici	ty Transmissio	n Line		ectricity /lon
\	231.60m B	ench Mark		Buildings w Building Se	
	Roofe	d Building		Glaze Buildir	d Roof ng
		Ci∨il parish/co	mmunity b	oundary	
		District bound			
_ •		County bounda	arv		
	,	Boundary post	-		
£		Boundary mer always appear of three)	eing symb		
Bks	Barracks		Р	Pillar, Pole or	Post
Bty	Battery		PO	Post Office	
Cemy	Cemetery		PC	Public Conve	nience
Chy	Chimney		Pp	Pump	
Cis	Cistern		Ppg Sta	Pumping Stat	
Dismtd F	-	led Railway	PW	Place of Wors	
El Gen S	ta Electrici Station	ty Generating	Sewage P		je ng Station
EIP	Electricity I	Pole, Pillar	SB, S Br	Signal Box o	r Bridge
El Sub S	ta Electricity	Sub Station	SP, SL	Signal Post o	rLight
	Ciléa y Da al				

Spr

Tr

Wd Pp

Wks

Spring

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

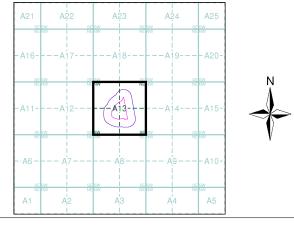
Tank or Track

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1877 - 1879	2
Carmarthenshire	1:2,500	1879 - 1880	3
Glamorganshire	1:2,500	1898	4
Carmarthenshire	1:2,500	1907	5
Carmarthenshire	1:2,500	1916	6
Glamorganshire	1:2,500	1916	7
Carmarthenshire	1:2,500	1935	8
Glamorganshire	1:2,500	1935	9
Ordnance Survey Plan	1:2,500	1958 - 1959	10
Additional SIMs	1:2,500	1959 - 1978	11
Ordnance Survey Plan	1:2,500	1972	12
Ordnance Survey Plan	1:2,500	1988	13
Additional SIMs	1:2,500	1988	14
Additional SIMs	1:2,500	1990	15
Large-Scale National Grid Data	1:2,500	1993	16
Large-Scale National Grid Data	1:2,500	1993	17
Large-Scale National Grid Data	1:2,500	1995	18
Historical Aerial Photography	1:2,500	2001	19

Historical Map - Segment A13



Order Details

Order Number: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350 Slice:

Site Area (Ha): 3.53 Search Buffer (m): 100

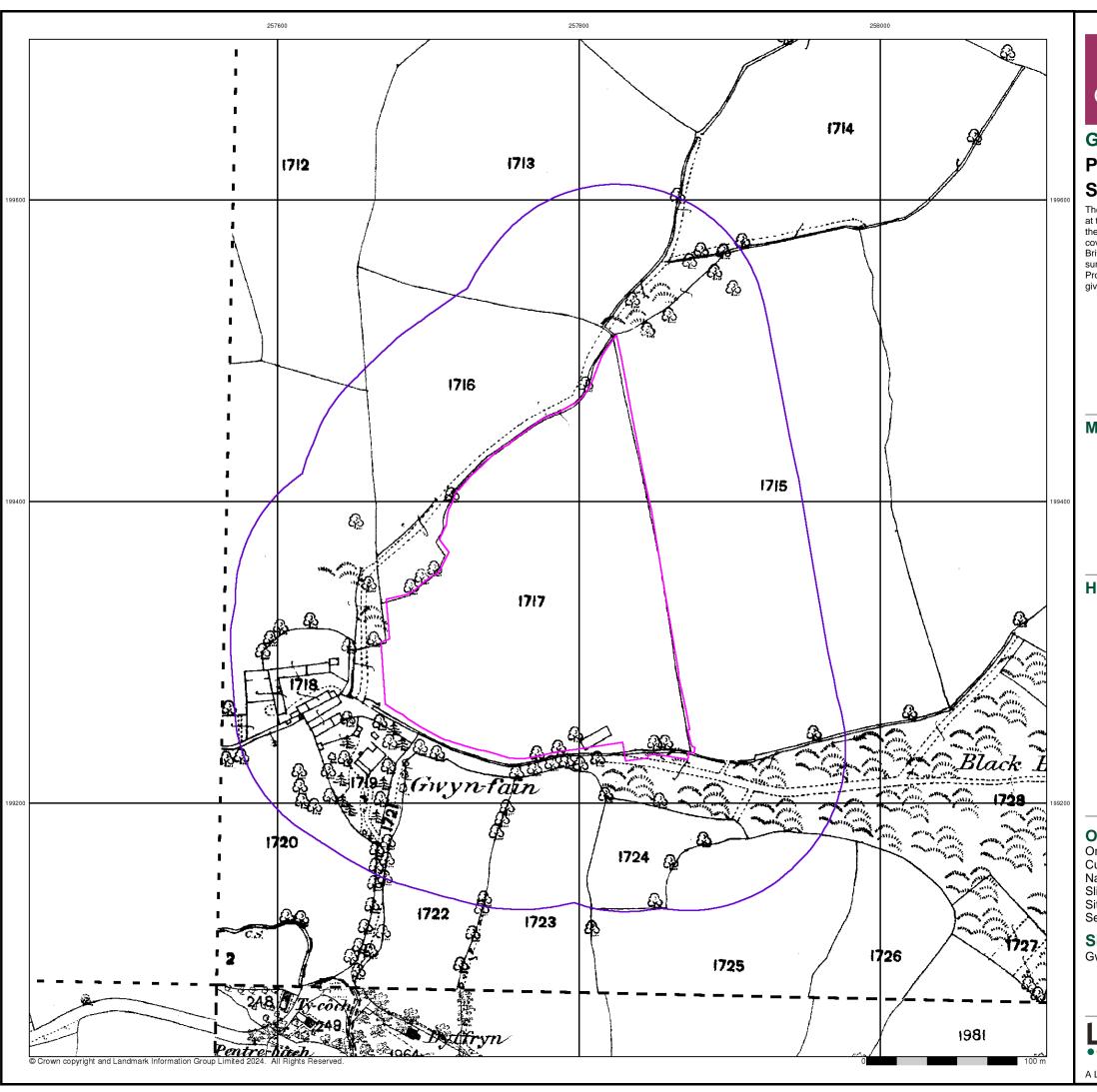
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF



0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 1 of 19

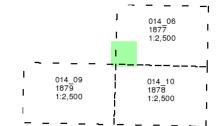


Glamorganshire

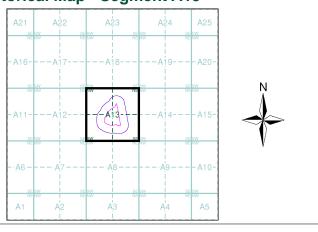
Published 1877 - 1879 Source map scale - 1:2,500

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 surveyes 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: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 100

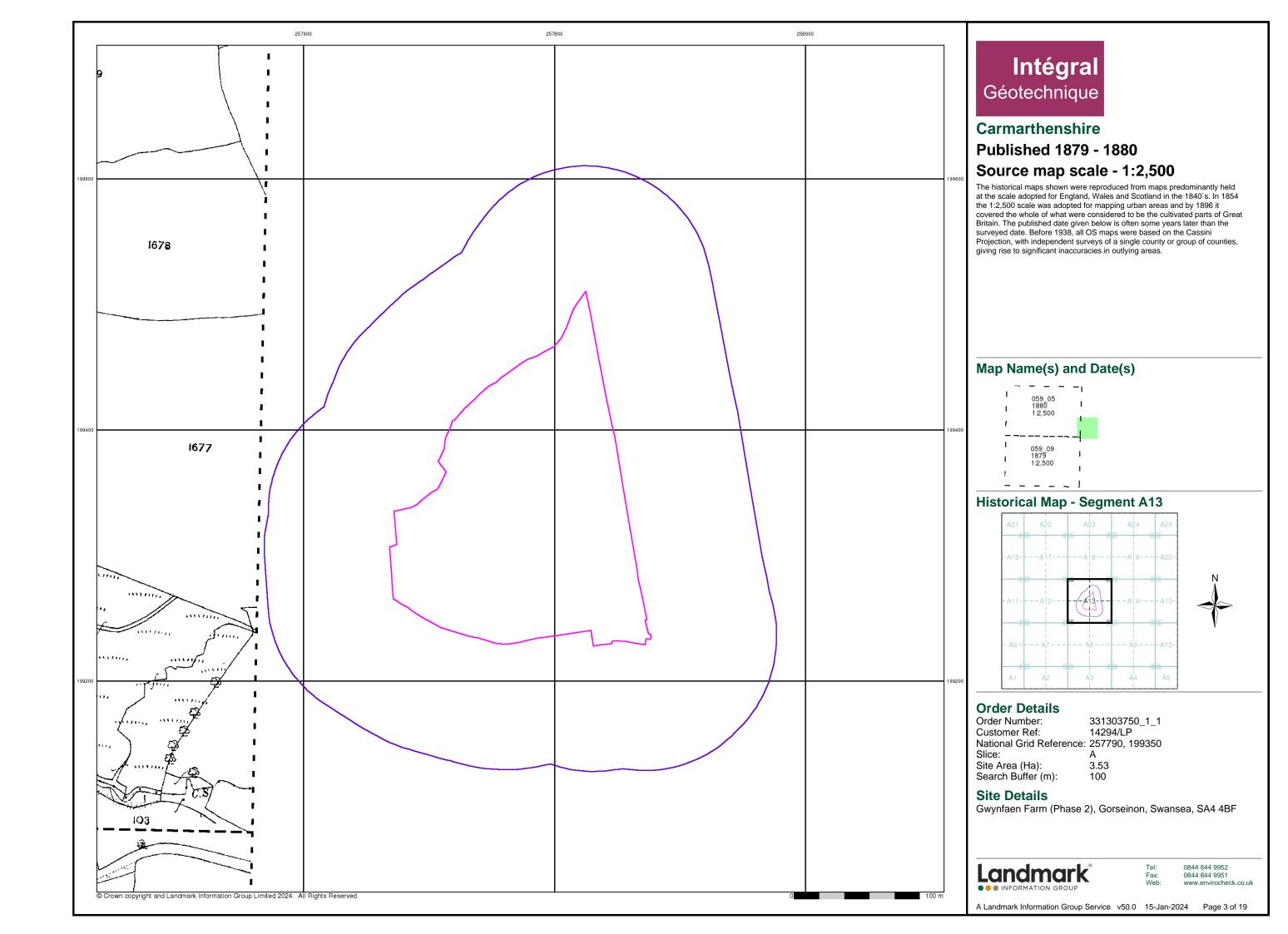
Site Details

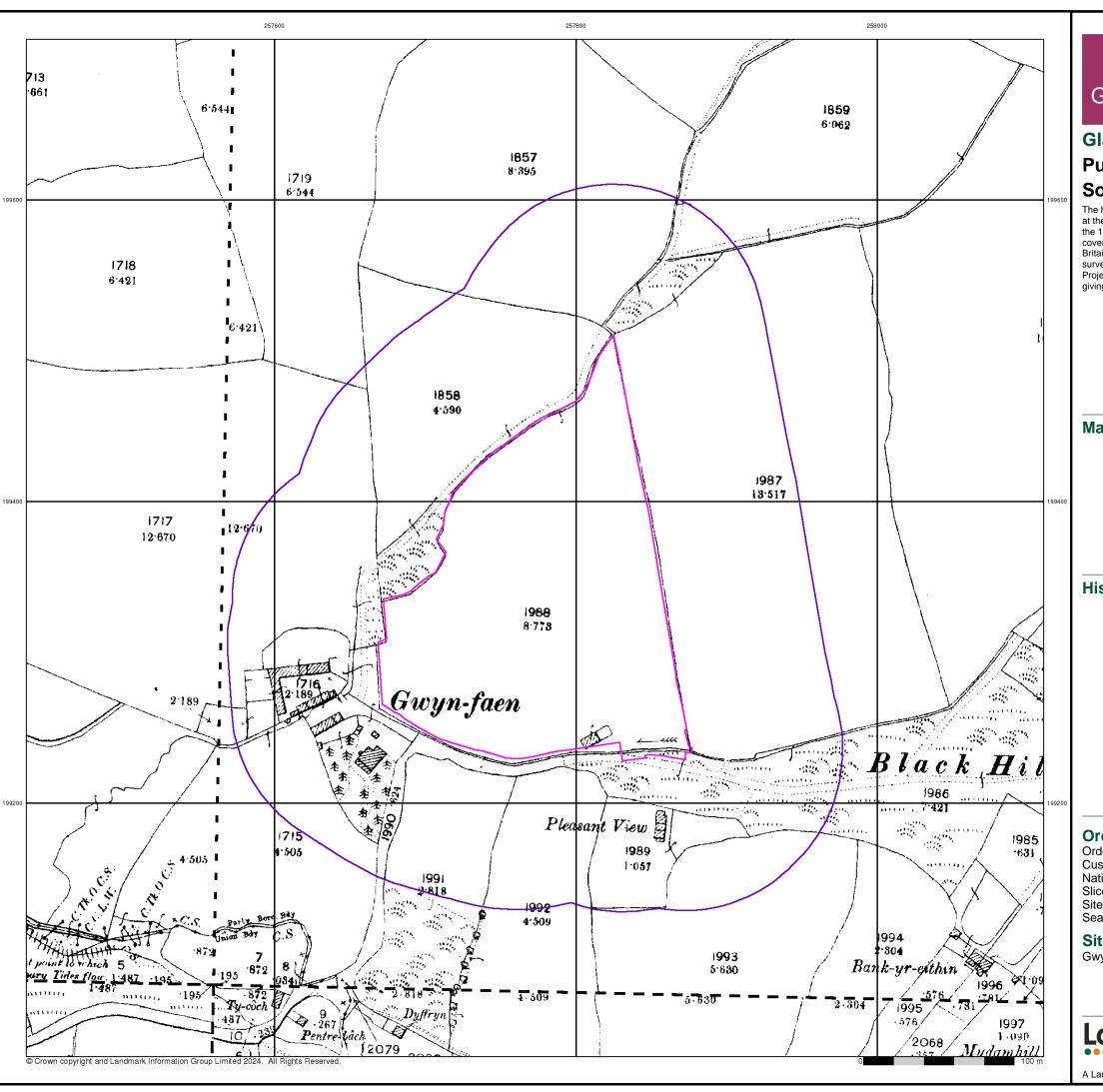
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 2 of 19



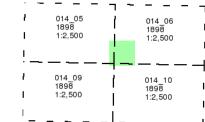


Glamorganshire

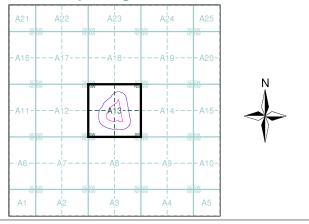
Published 1898 Source map scale - 1:2,500

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 100

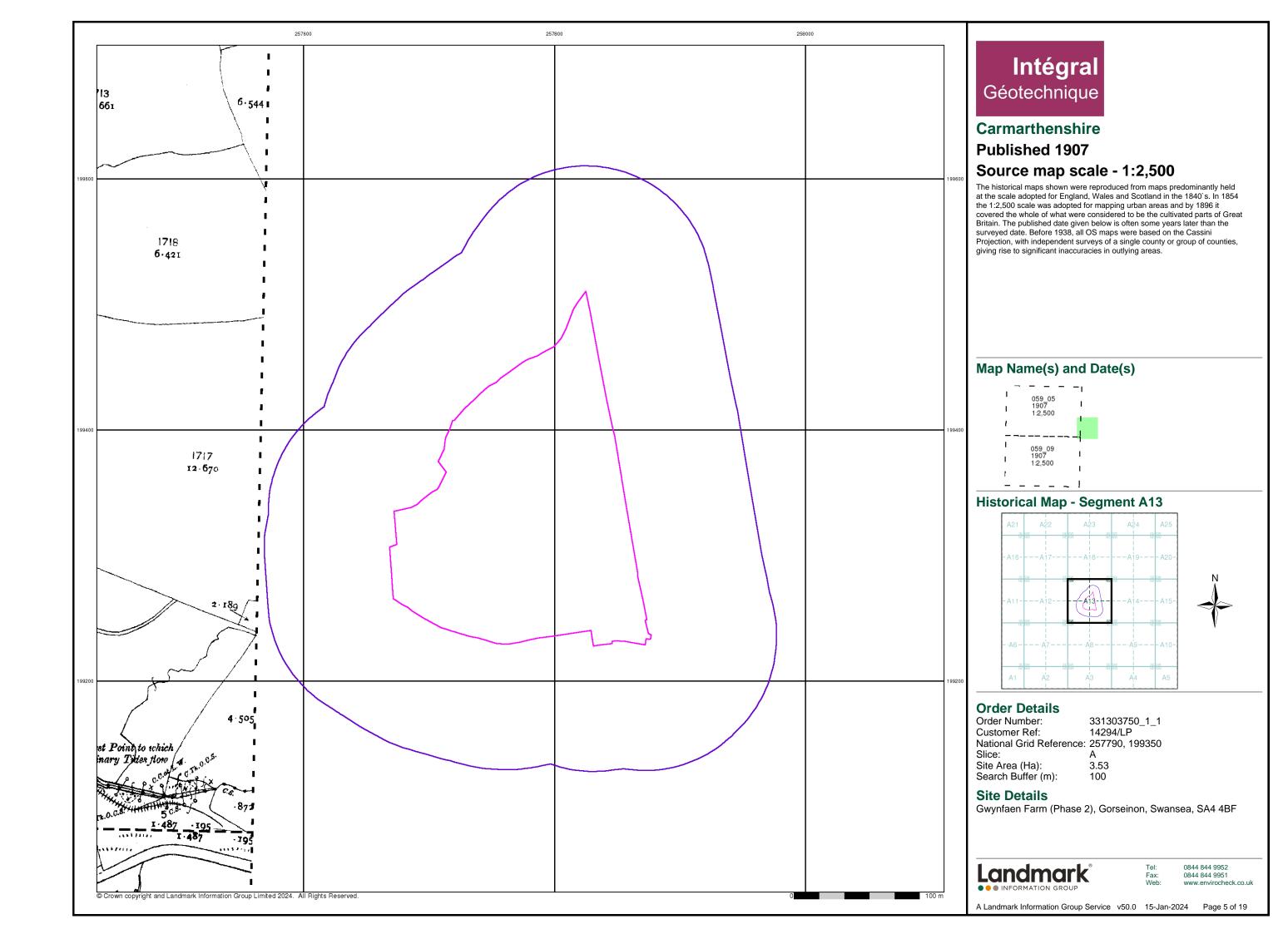
Site Details

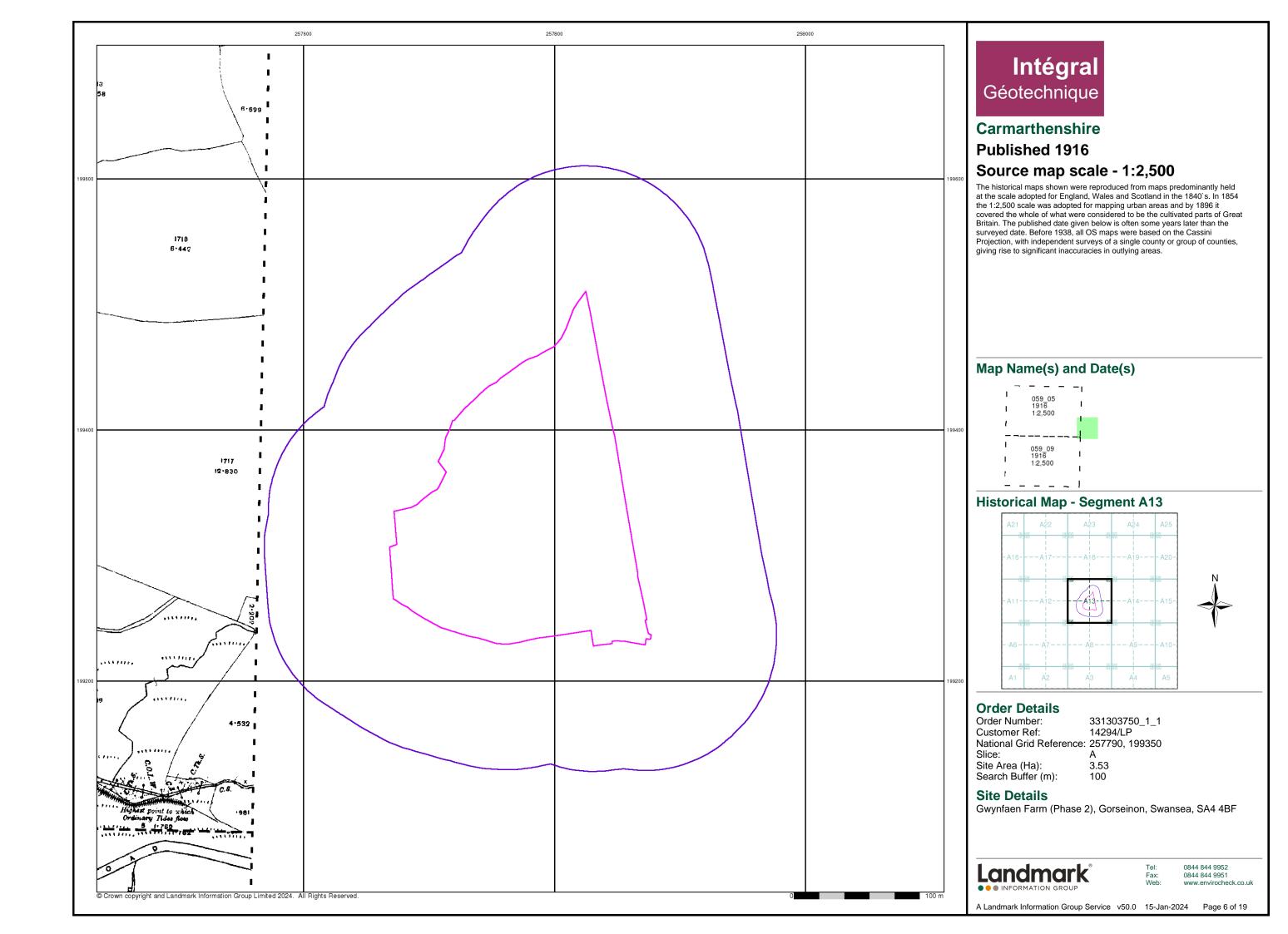
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

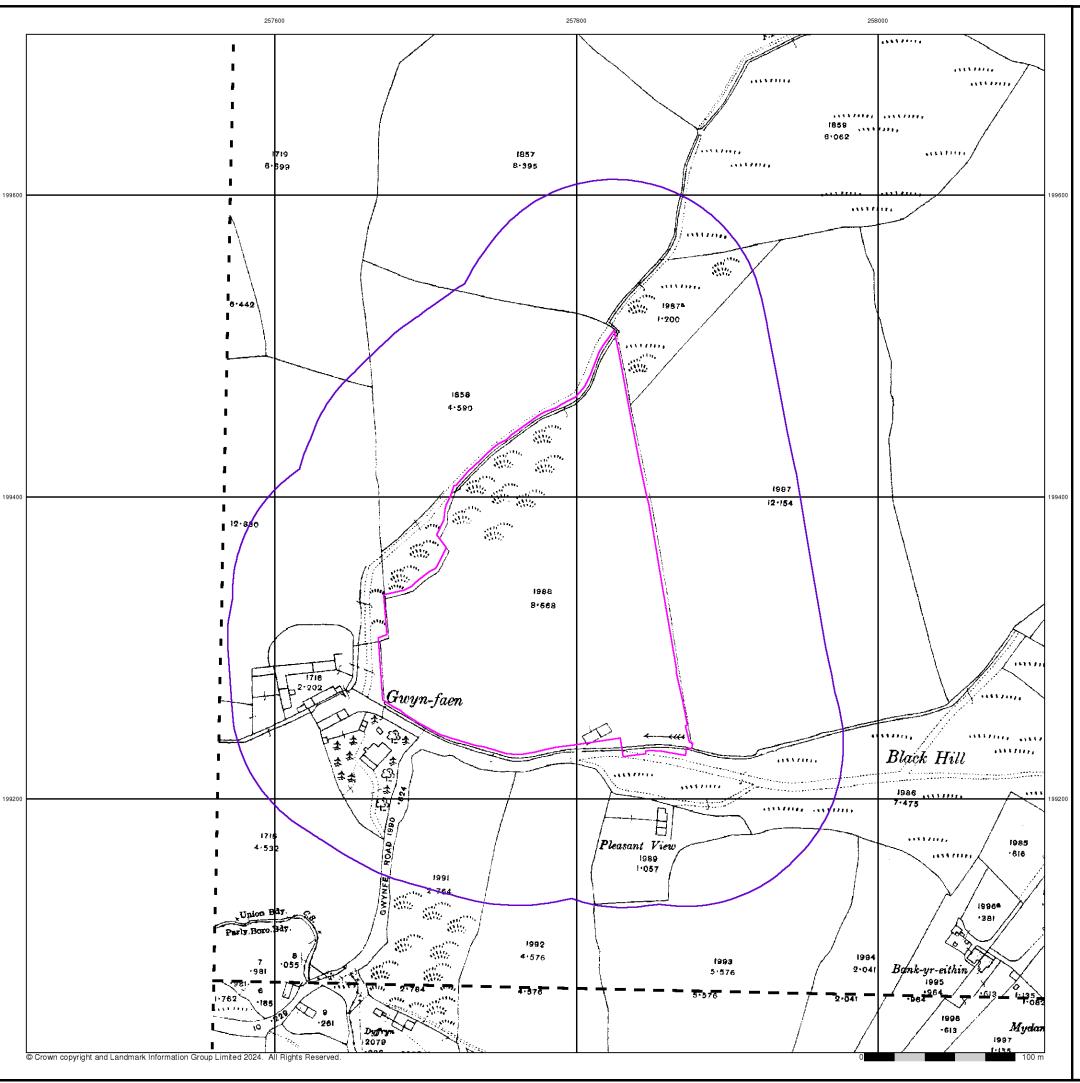
Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 4 of 19







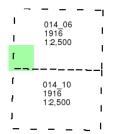
Glamorganshire

Published 1916

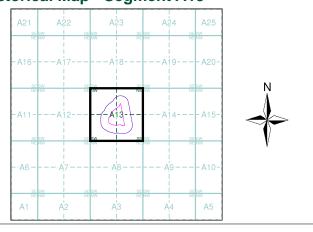
Source map scale - 1:2,500

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): 3.53 Search Buffer (m): 100

Site Details

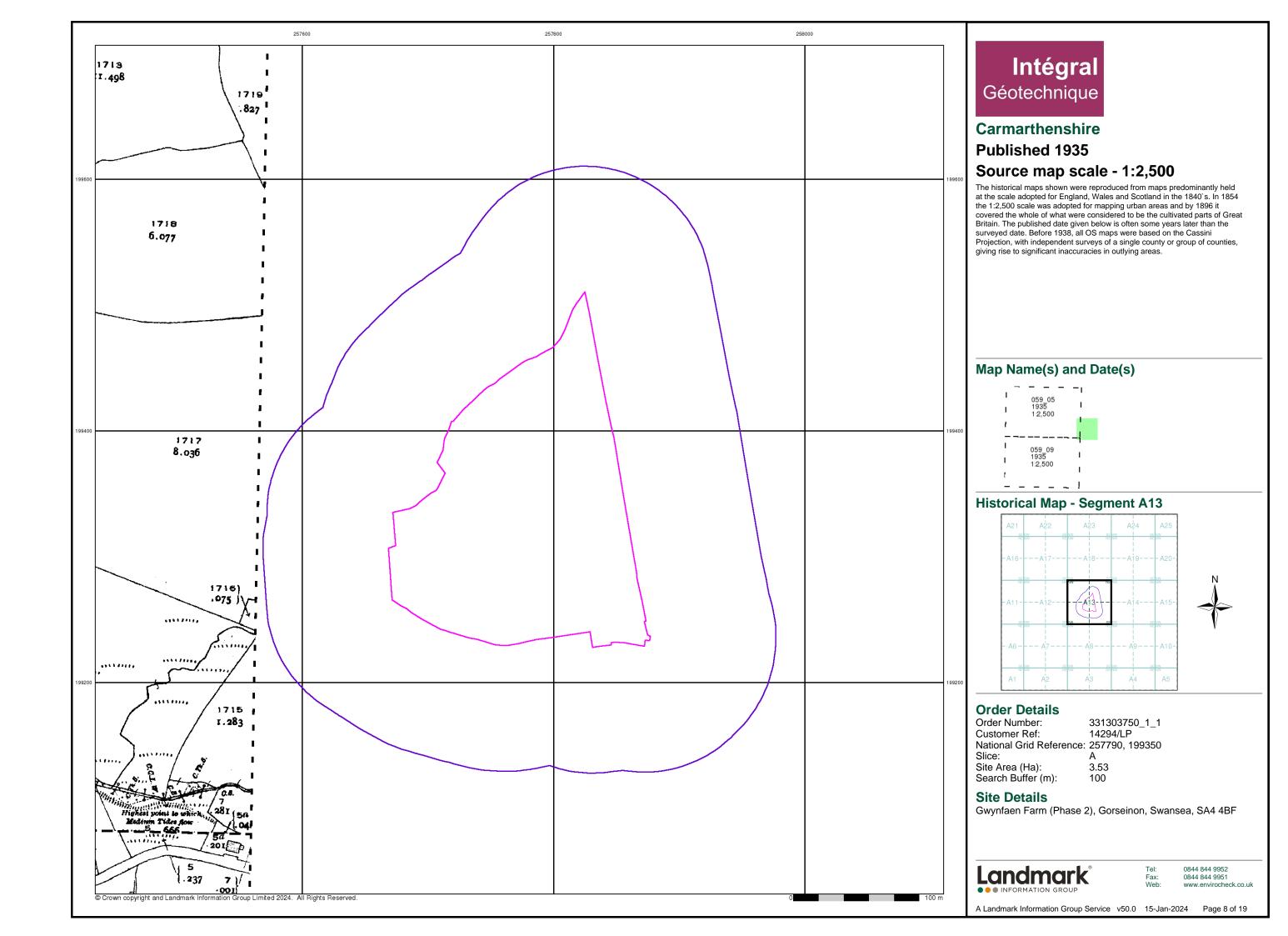
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

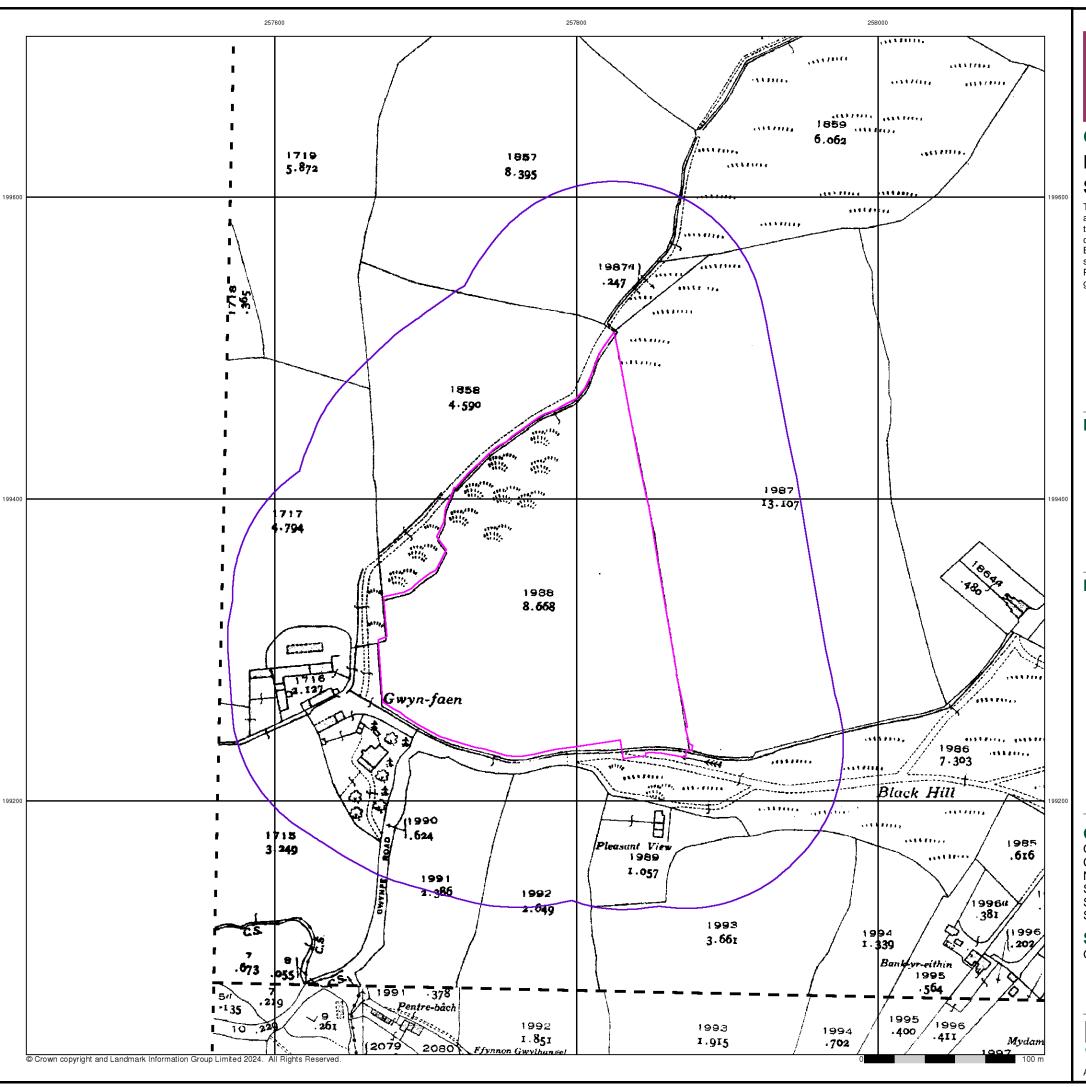
Landmark®

• • • INFORMATION GROUP

Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirochecl

A Landmark Information Group Service v50.0 15-Jan-2024 Page 7 of 19



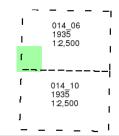


Glamorganshire

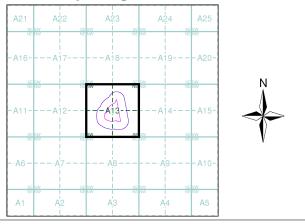
Published 1935 Source map scale - 1:2,500

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 100

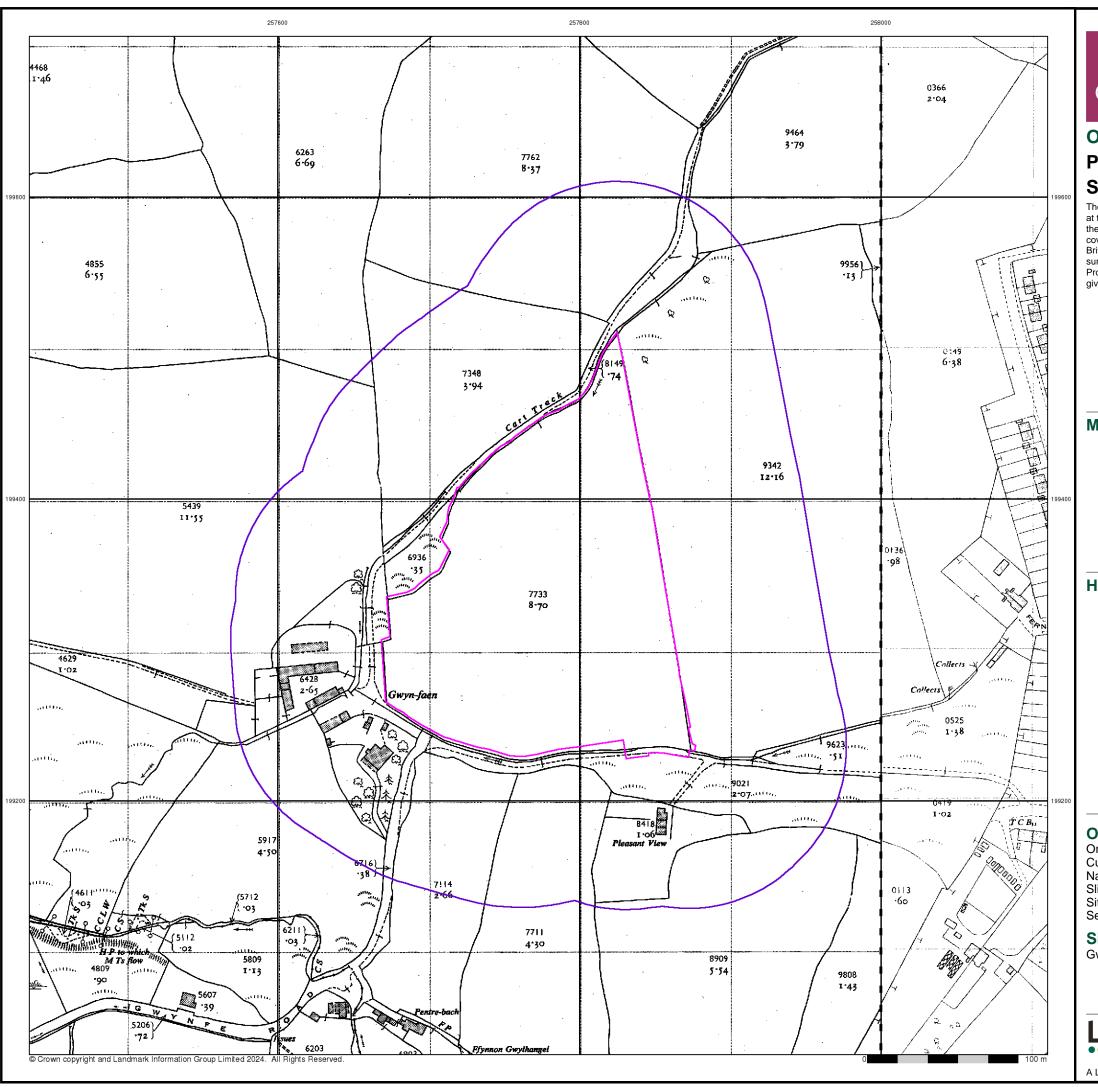
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 9 of 19

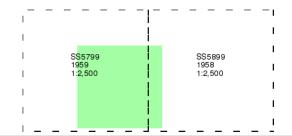


Ordnance Survey Plan

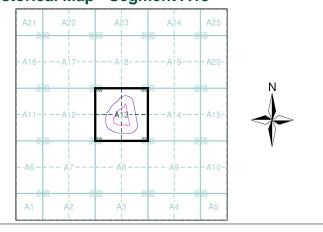
Published 1958 - 1959 Source map scale - 1:2,500

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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): 3.53 Search Buffer (m): 100

Site Details

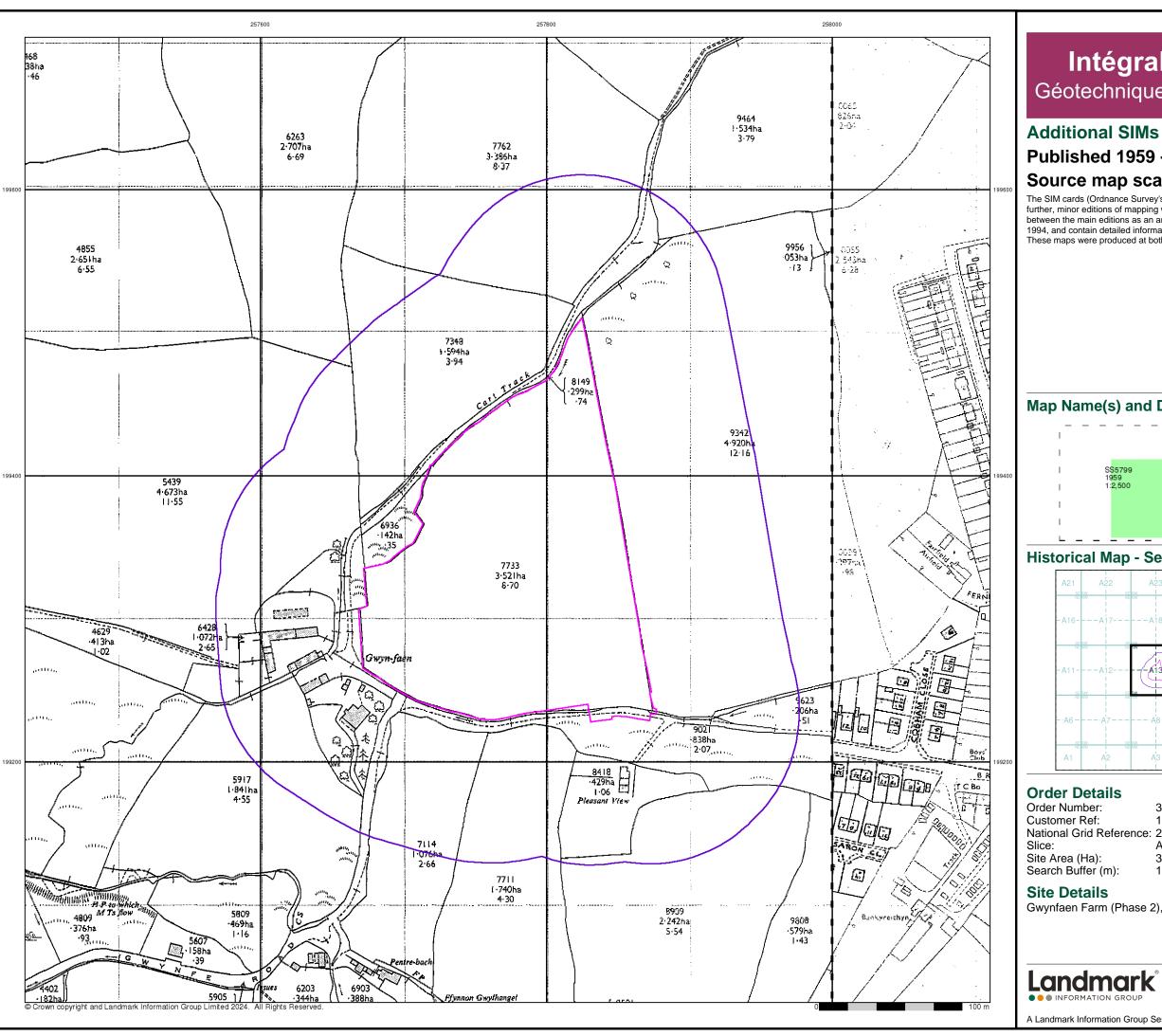
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

INFORMATION GROUP

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

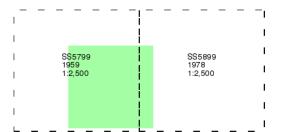
A Landmark Information Group Service v50.0 15-Jan-2024 Page 10 of 19



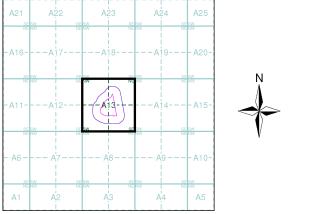
Published 1959 - 1978 Source map scale - 1:2,500

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



331303750_1_1 14294/LP National Grid Reference: 257790, 199350

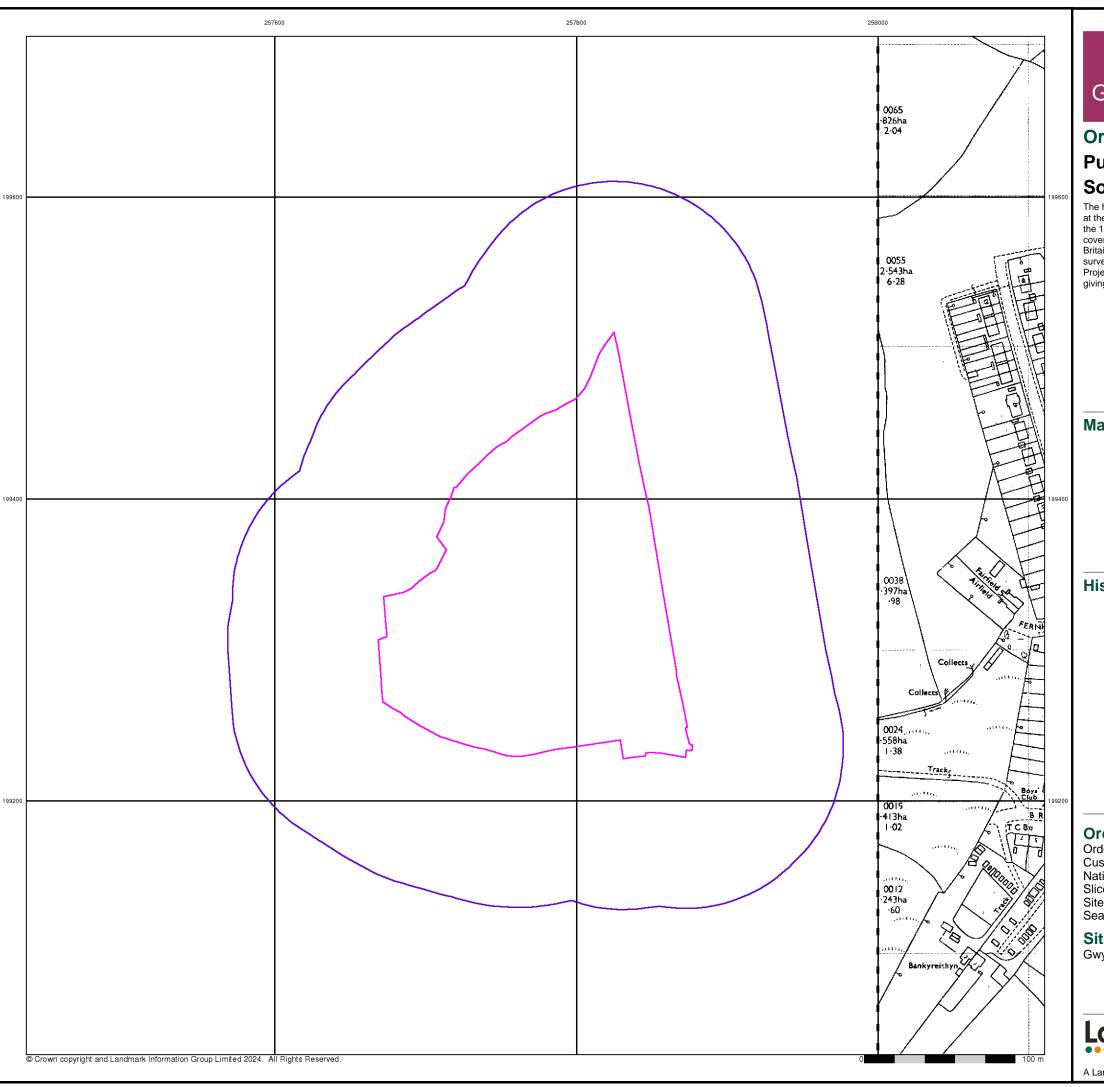
3.53 100

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 11 of 19



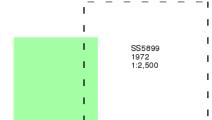
Ordnance Survey Plan

Published 1972

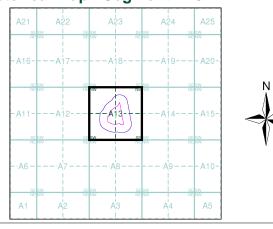
Source map scale - 1:2,500

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 surveyes 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: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 100

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 12 of 19



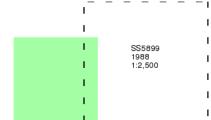
Ordnance Survey Plan

Published 1988

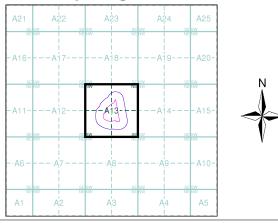
Source map scale - 1:2,500

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 surveyes 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: 331303750_1_1 14294/LP Customer Ref: National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): Search Buffer (m): 3.53 100

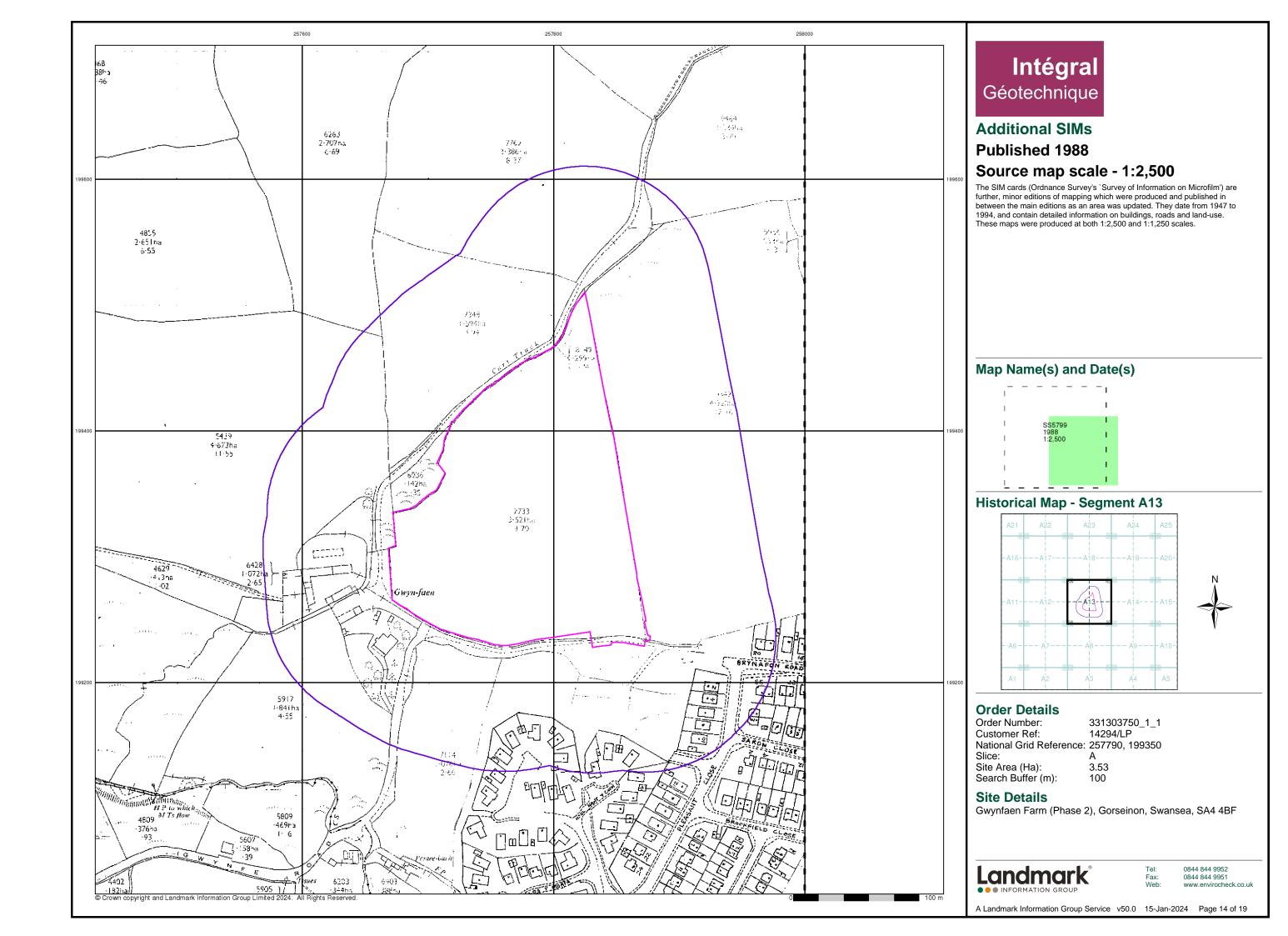
Site Details

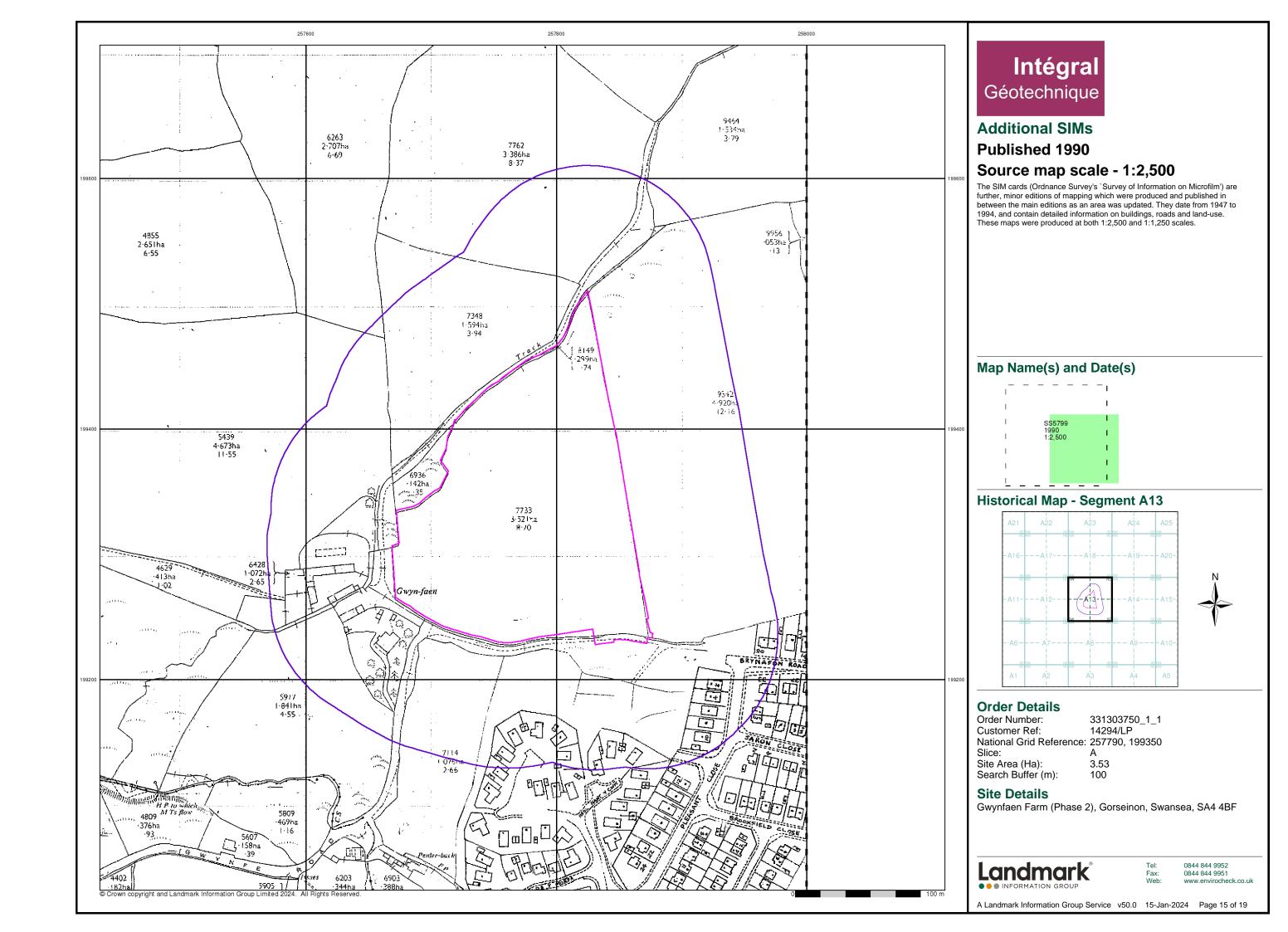
Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

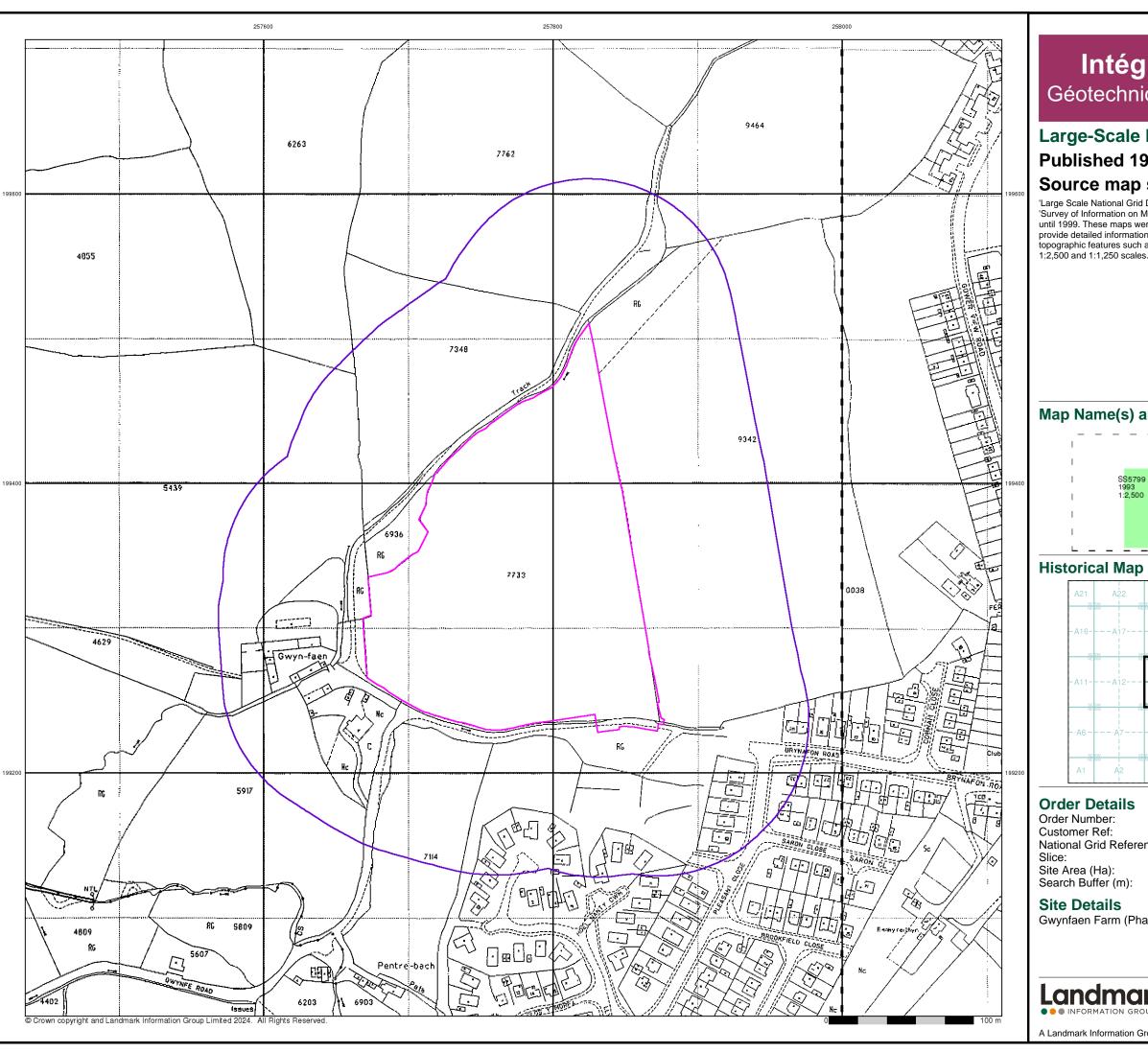
Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 13 of 19







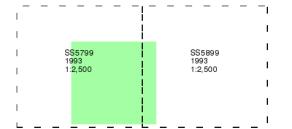
Large-Scale National Grid Data

Published 1993

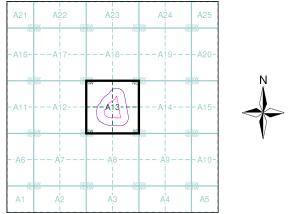
Source map scale - 1:2,500

'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



331303750_1_1 14294/LP National Grid Reference: 257790, 199350

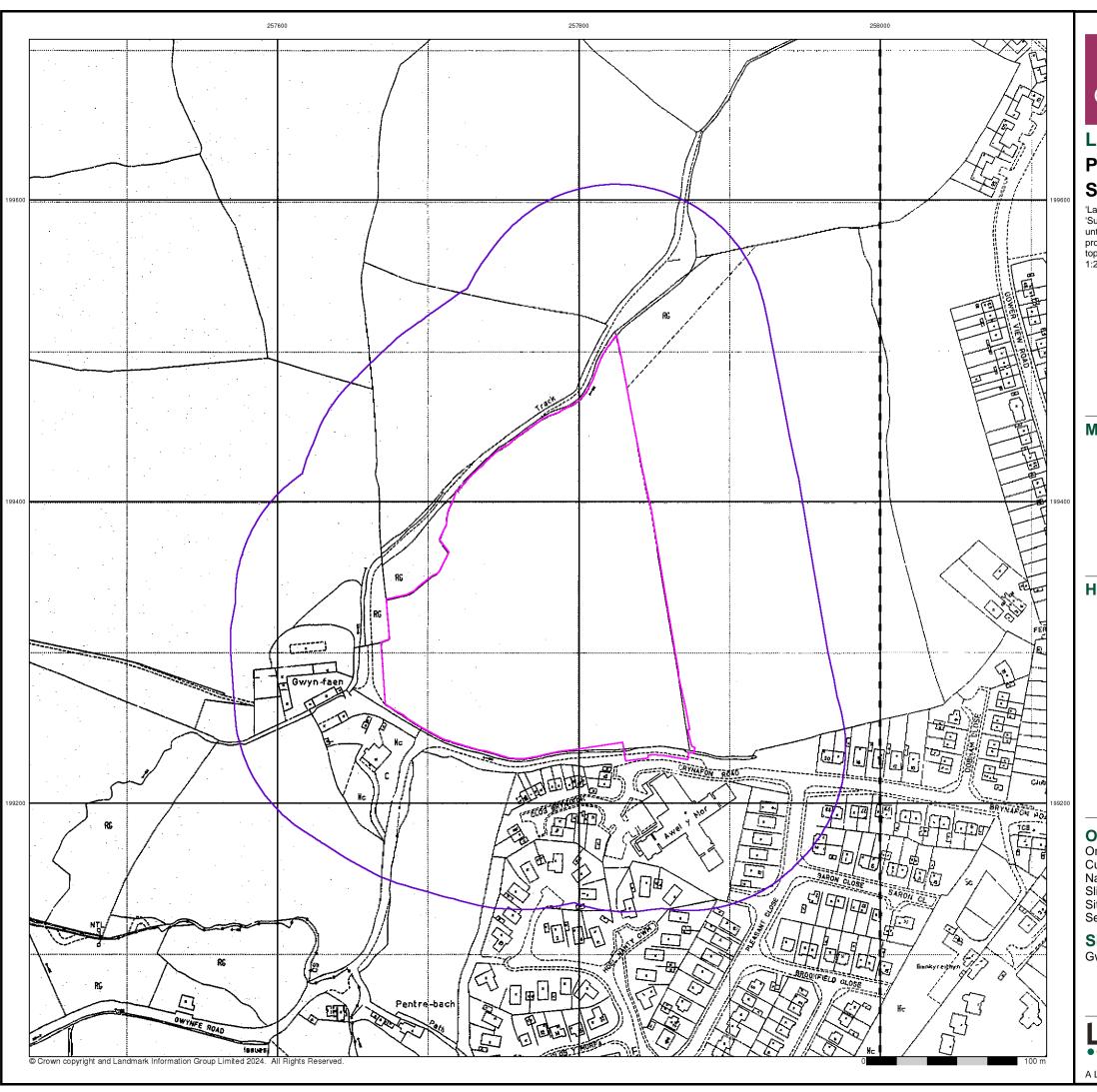
3.53 100

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 15-Jan-2024 Page 16 of 19



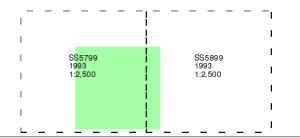
Large-Scale National Grid Data

Published 1993

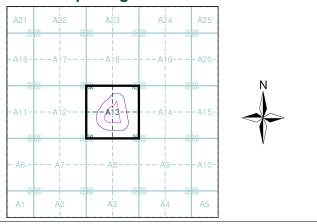
Source map scale - 1:2,500

'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: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257790, 199350

Slice:

Site Area (Ha): 3.53 Search Buffer (m): 100

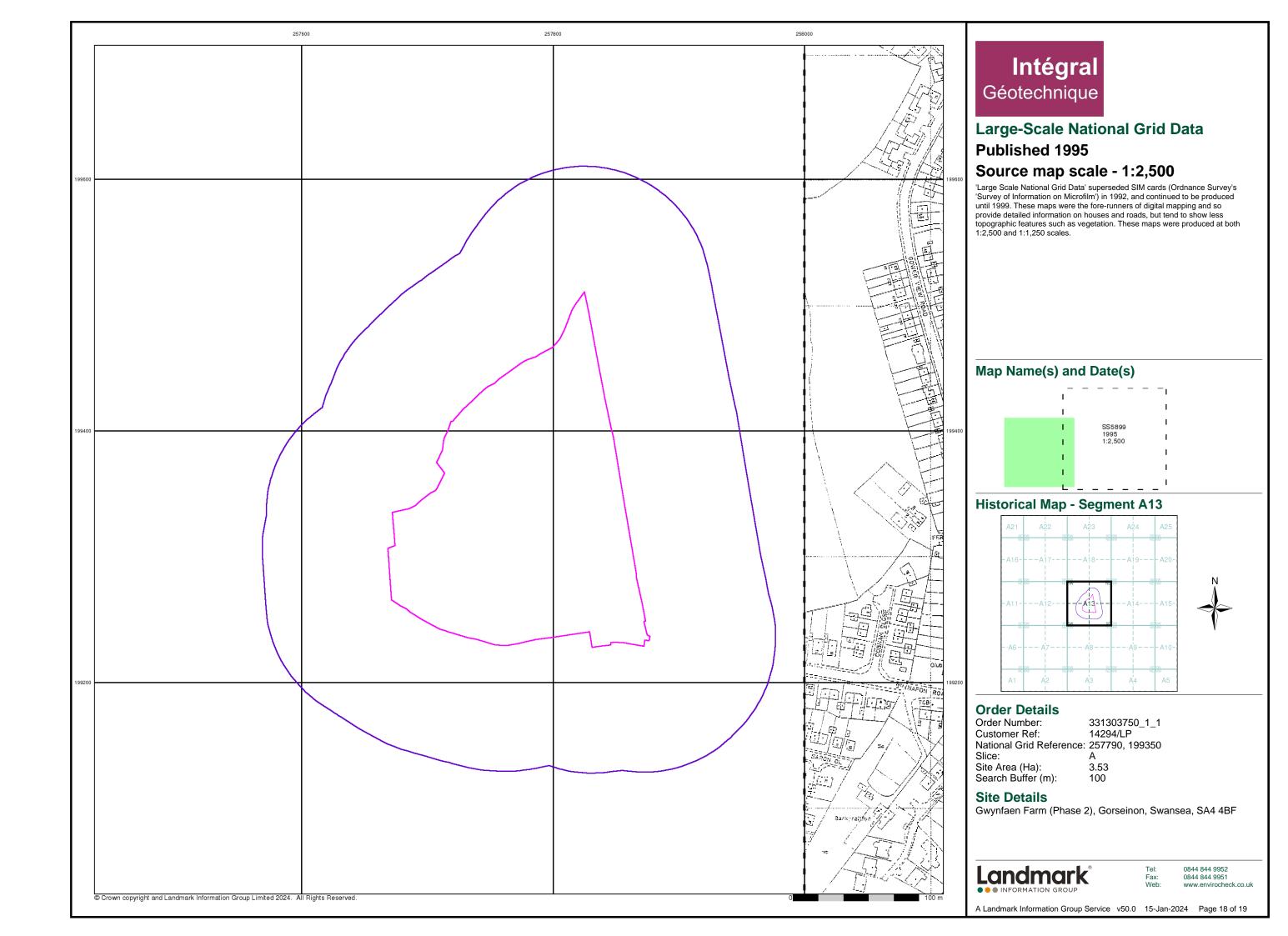
Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark®
••• INFORMATION GROUP

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

A Landmark Information Group Service v50.0 15-Jan-2024 Page 17 of 19

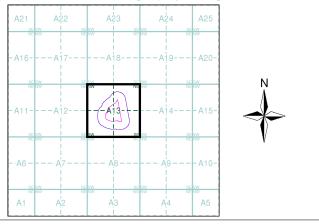




Historical Aerial Photography Published 2001

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:
 331303750_1_1

 Customer Ref:
 14294/LP

 National Grid Reference:
 257790, 199350

Slice: Site Area (Ha): Search Buffer (m): A 3.53 100

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Landmark®
••• INFORMATION GROUP

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 19 of 19



Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

331303750_1_1

Customer Reference:

14294/LP

National Grid Reference:

257790, 199350

Slice:

Α

Site Area (Ha):

3.53

Search Buffer (m):

1000

Site Details:

Gwynfaen Farm (Phase 2) Gorseinon Swansea SA4 4BF

Client Details:

MR H Pritchard Integral Geotechnique Integral House 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX







F	Report Section and Details	
Summary		-

The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.

For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).

Mining and Natural Cavities Data

1

The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.

Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.

Historical Land Use Information (1:2,500)

-

The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.

For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.

Historical Land Use Information (1:10,000)

6

The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.

For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.

Ground Stability Data (1:50,000)

8

The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.

Historical Map List 9

The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.

Data Currency	11
Data Suppliers	12
Useful Contacts	13

Copyright Notice

© Landmark Information Group Limited 2024. 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, and the Environment Agency/Natural Resources Wales, 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.

© Copyright Stantec UK Limited. All rights reserved.

The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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.

Report Version v53.0





Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1				6
Coal Mining Affected Areas	pg 2	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 2	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas	pg 2	1	7	3	20
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 6			1	5
Heap, unknown constituents					
Mineral Railway	pg 6				1
Mining & quarrying general	pg 6			1	
Mining of coal & lignite	pg 6				3
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 6			1	6
Potentially Infilled Land (Water)	pg 6	1	1	8	6
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 8	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Salt Mining Related Features					



Report Version v53.0

Summary



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Pen-Cefn-Arda Isaf Gorseinon, Swansea, West Glamorgan British Geological Survey, National Geoscience Information Service 153932 Opencast Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Sandstone Located by supplier to within 10m	A14NW (NE)	563	1	258354 199700
2	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Glan-Nant Gorseinon, Swansea, West Glamorgan British Geological Survey, National Geoscience Information Service 153942 Opencast Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Sandstone Located by supplier to within 10m	A18NE (NE)	600	1	258083 200051
3	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Tir-Newydd Gorseinon, Llanelli, West Glamorgan British Geological Survey, National Geoscience Information Service 153971 Underground Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A8SE (S)	780	1	257989 198458
4	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Broadoak Pit Gorseinon, Llanelli, West Glamorgan British Geological Survey, National Geoscience Information Service 153970 Underground Ceased Unknown Operator Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	876	1	257055 198644
4	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Broadoak Colliery Loughor, Gorseinon, West Glamorgan British Geological Survey, National Geoscience Information Service 188592 Underground Ceased Individual'S Name Withheld Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	904	1	257023 198637
5	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Broadoak Colliery Loughor, Gorseinon, West Glamorgan British Geological Survey, National Geoscience Information Service 188593 Underground Ceased Individual'S Name Withheld Not Supplied Carboniferous Grovesend Formation Coal - Deep Located by supplier to within 10m	A7SW (SW)	929	1	257028 198597



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affecte Description:	ld Areas In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (NW)	0	2	257787 199348
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	A13SE (NW)	0	3	257787 199348
	Non Coal Mining Ar No Hazard	reas of Great Britain				
6	Potential Mining An Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Cae Duke	A13SE (NW)	0	4	257787 199348
7	Potential Mining An Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	eas Cory's Swansea Navigation 1896 Coal; Four Feet 3561 Pengrees (Pengrys) Not Supplied	A13SE (E)	89	4	257968 199344
8	Potential Mining An Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Sterry's Mountain	A13SE (E)	89	4	257968 199344
9	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Broadoak	A13SW (W)	105	4	257565 199353
10	Potential Mining An Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:		A13SW (W)	105	4	257566 199353
11	Potential Mining And Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:		A13SE (S)	155	4	257781 199075
12	Potential Mining An Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:		A13SE (SE)	182	4	257962 199071



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine:	eas Broadoak 1870 Coal; Seam unnamed Not Supplied Not Supplied	A13SW (SW)	218	4	257560 199079
	Custodian:	D.P. Thomas, "Kymin", Newton, Porthcawl.				
14	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	cas Coalbrook 1887 Coal; Upper Grovesend 5226A Not Supplied Not Supplied	A14SW (E)	491	4	258370 199335
15	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	eas Coalbrook and Goedin 1895 Coal; Lower Grovesend; Goedin 5226B Not Supplied Not Supplied	A14SW (E)	491	4	258370 199335
16	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Mountain 1897 Coal; Upper Grovesend; Lower Grovesend 3706 Not Supplied	A14SW (E)	491	4	258370 199335
17	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Alternate Name/Mine: Custodian:	Caecopin 1910 Coal; Penscallen 5594 Broadoak Glebe Not Supplied	A8SW (S)	557	4	257772 198672
18	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:		A8SW (S)	557	4	257772 198672
19	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	**	A8SW (S)	557	4	257772 198672
20	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Pengrys Not Supplied Coal; Four Feet Not Supplied Not Supplied G.E. Gordon, 9 Wind Street, Swansea.	A8SW (S)	557	4	257772 198672
21	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	eas Loughor Old Not Supplied Coal; Four Feet Not Supplied Not Supplied Francis Hobbs, Beaufort Estate Office, 7 Picton Place, Swansea.	A8SW (S)	557	4	257772 198672



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential Mining Ar	eas				
22	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Broadoak 1887 Coal; Penscallen Not Supplied Not Supplied	A8SW (S)	587	4	257551 198677
		Francis Hobbs, Beaufort Estate Office, 7 Picton Place, Swansea.				
23	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Mountain 1935 Coal; Swansea Two Feet or Bushy 11846 Not Supplied Not Supplied	A14SE (E)	894	4	258772 199327
	Potential Mining Ar	eas				
24	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Mountain 1917 Coal; Four Feet; Five Feet Not Supplied Not Supplied A.G. Fleming, 3 Temple Buildings, Goat Street, Swansea.	A14SE (E)	894	4	258772 199327
	Potential Mining Ar	eas				
25	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Mountain 1932 Coal; Four Feet 10774 Cefn Arda	A14SE (E)	894	4	258772 199327
	Potential Mining Ar	eas				
26	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Coalbrook 1907 Coal; Middle Grovesend 5226 Not Supplied Not Supplied	A14NE (E)	925	4	258775 199456
		**				
27	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Coalbrook Not Supplied Coal; Upper Grovesend; Lower Grovesend Not Supplied Not Supplied T. Williams and Sons, Llangennech, Carm.	A14NE (E)	925	4	258775 199456
	Potential Mining Ar	eas				
28	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Beili Glas 1921 Coal; Penscallen 8145 Wern	A3NW (S)	959	4	257764 198270
	Potential Mining Ar	eas				
29	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Beili Glas 1931 Coal; Four Feet 10474 Wern Not Supplied	A3NW (S)	959	4	257764 198270
	Potential Mining Ar					
30	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Jubilee 1904 Coal; Probably Five Feet Not Supplied Not Supplied A.G. Fleming, 3 Temple Buildings, Goat Street, Swansea.	A3NW (S)	959	4	257764 198270



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Potential Mining Ar Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	eas Jubilee 1903 Coal; Seam unnamed Not Supplied Not Supplied J. Davies and Son, The Pines, Pembrey.	A3NW (S)	959	4	257764 198270
	Potential Mining Ar					
32	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Beili Glas 1932 Coal; Five Feet 10886 Wern Not Supplied	A3NW (S)	959	4	257764 198270
	Potential Mining Ar	eas				
33	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Beili Glas 1919 Coal; Four Feet Not Supplied Not Supplied A.G. Fleming, 3 Temple Buildings, Goat Street, Swansea.	A3NW (S)	959	4	257764 198270
	Potential Mining Ar	eas				
34	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Jubilee 1904 Coal; Five Feet 5615 Not Supplied	A3NW (S)	959	4	257764 198270
	Potential Mining Ar	eas				
35	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Jubilee 1891 Coal; Seam unnamed Not Supplied Not Supplied J. Davies and Son, Cowell House, Cowell Street, Llanelly.	A3NW (S)	959	4	257764 198270
	Potential Mining Ar	eas				
36	Name: Ceased Operation: Commodity: Reference: Alternate Name/Mine: Custodian:	Waun 1887 Coal; Seams unnamed Not Supplied Not Supplied H. Lynch Blosse, Worcester Chambers, Swansea.	A3NW (S)	959	4	257764 198270



Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	General Quarrying Use: Not Supplied Date of Mapping: 1901	A8NE (S)	277	-	257805 198953
38	General Quarrying Use: Not Supplied Date of Mapping: 1892 - 1938	A18SE (N)	538	-	258008 200016
39	General Quarrying Use: Not Supplied Date of Mapping: 1892 - 1921	A19SW (NE)	558	-	258118 199985
40	General Quarrying Use: Not Supplied Date of Mapping: 1908	A14NW (NE)	560	-	258350 199703
41	General Quarrying Use: Not Supplied Date of Mapping: 1908	A14NE (E)	611	-	258449 199505
42	General Quarrying Use: Not Supplied Date of Mapping: 1892 - 1908	A19SW (NE)	639	-	258419 199745
43	Mineral Railway Use: Not Supplied Date of Mapping: 1884 - 1964	A7SW (SW)	983	-	256981 198567
44	Mining & quarrying general Use: Not Supplied Date of Mapping: 1964	A12NE (NW)	433	-	257355 199641
45	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1884 - 1951	A7NE (SW)	512	-	257261 198961
46	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1901	A8SE (S)	778	-	257973 198458
47	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1907	A9SW (SE)	872	-	258403 198538
48	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NE (S)	277	-	257805 198953
49	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A7NE (SW)	512	-	257261 198961
50	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NW (NE)	560	-	258350 199703
51	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NE (E)	611	-	258449 199505
52	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SW (NE)	639	-	258419 199745
53	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8SE (S)	778	-	257973 198458
54	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9SW (SE)	872	-	258403 198538
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SE (S)	0	-	257802 199231
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SE (SE)	225	-	257987 199036
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SW (SW)	301	-	257461 199051



Historical Land Use Information (1:10,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled	Land (Water)				
58	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NW (S)	383	-	257756 198847
	Potentially Infilled	Land (Water)				
59	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A14SW (SE)	395	-	258221 199042
	Potentially Infilled	Land (Water)				
60	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A8NE (SE)	401	-	258075 198884
	Potentially Infilled	Land (Water)				
61	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NW (SW)	409	-	257479 198903
	Potentially Infilled	Land (Water)				
62	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1921	A8NE (SE)	438	-	258101 198856
	Potentially Infilled	Land (Water)				
63	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A8NE (S)	448	-	257968 198791
	Potentially Infilled	Land (Water)				
64	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	A7NE (SW)	496	-	257248 199009
	Potentially Infilled	Land (Water)				
65	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1921	A9NW (SE)	617	-	258387 198887
	Potentially Infilled	Land (Water)				
66	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	A17SE (NW)	663	-	257216 199839
	Potentially Infilled	Land (Water)				
67	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A14SE (E)	765	-	258619 199054
	Potentially Infilled	Land (Water)				
68	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A9NE (SE)	778	-	258481 198743
	Potentially Infilled	Land (Water)				
69	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1891	A7SE (SW)	937	-	257210 198450
	Potentially Infilled	Land (Water)				
70	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1951	A9SE (SE)	990	-	258564 198521



Ground Stability Data (1:50,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensa	ation District				
	The site does not fa	all within the brine compensation area.				
	Brine Subsidence	Solution Area				
	The site does not fa	all within the brine subsidence solution area.				
	·	psible Ground Stability Hazards				
71	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Colla	psible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Comp	pressible Ground Stability Hazards				
72	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Comp	pressible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Grou	nd Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Land	slide Ground Stability Hazards				
73	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Land	slide Ground Stability Hazards				
74	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13NE (N)	187	1	257917 199672
	Potential for Land	slide Ground Stability Hazards				
75	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13NE (NE)	243	1	258007 199670
	Potential for Runn	ing Sand Ground Stability Hazards				
76	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Runn	ing Sand Ground Stability Hazards				
77	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Runn	ing Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13NE (N)	187	1	257917 199672
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
78	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	257787 199348
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
79	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A13SW (SW)	113	1	257614 199167
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13NE (NE)	210	1	257978 199657



Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Glamorganshire	014_06	1877
Glamorganshire	014_10	1878
Glamorganshire	014_09	1879
Carmarthenshire	059_09	1879
Carmarthenshire	059_05	1880
Glamorganshire	014_05	1898
Glamorganshire	014_06	1898
Glamorganshire	014_09	1898
Glamorganshire	014_10	1898
Carmarthenshire	059_05	1907
Carmarthenshire	059_09	1907
Glamorganshire	014_06	1916
Glamorganshire	014_10	1916
Carmarthenshire	059_05	1916
Carmarthenshire	059_09	1916
Glamorganshire	014_06	1935
Glamorganshire	014_10	1935
Carmarthenshire	059_05	1935
Carmarthenshire	059_09	1935
Ordnance Survey Plan	SS5899	1958
Ordnance Survey Plan	SS5799	1959



Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Glamorganshire	014_00	1884
Carmarthenshire	059_SW	1891
Carmarthenshire	059_NW	1892
Glamorganshire	014_NW	1901
Glamorganshire	014_SW	1901
Carmarthenshire	059_SW	1907
Carmarthenshire	059_NW	1908
Carmarthenshire	059_NW	1921
Carmarthenshire	059_SW	1921
Glamorganshire	014_NW	1938
Glamorganshire	014_SW	1938
Carmarthenshire	059_NW	1951
Carmarthenshire	059_SW	1951
Ordnance Survey Plan	SN50SE	1964
Ordnance Survey Plan	SS59NE	1964
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SN50SE	1993
Ordnance Survey Plan	SS59NE	1993



Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2022	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2022	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features		
Landmark Information Group Limited	July 2023	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified



Data Suppliers

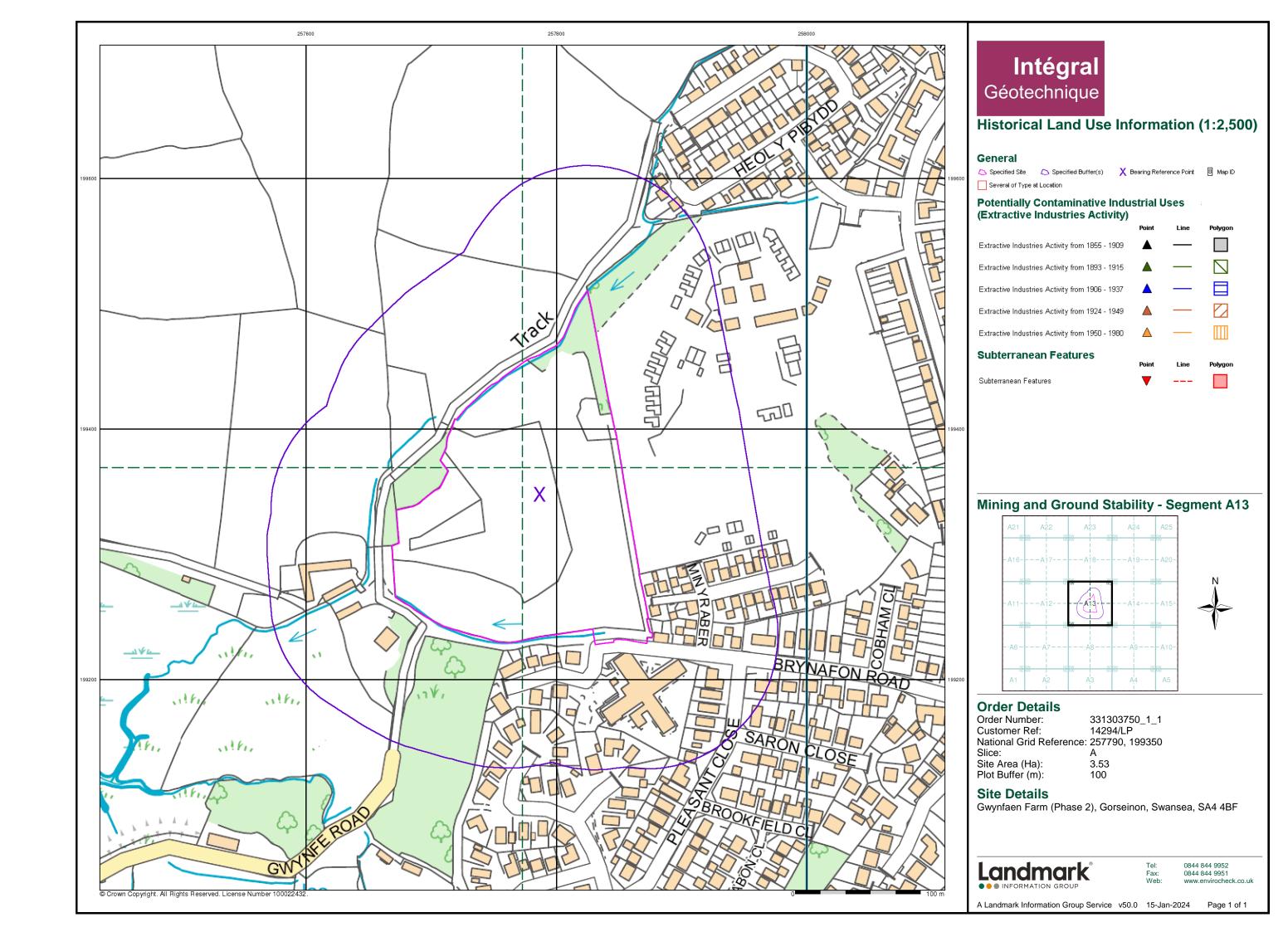
A selection of organisations who provide data within this report

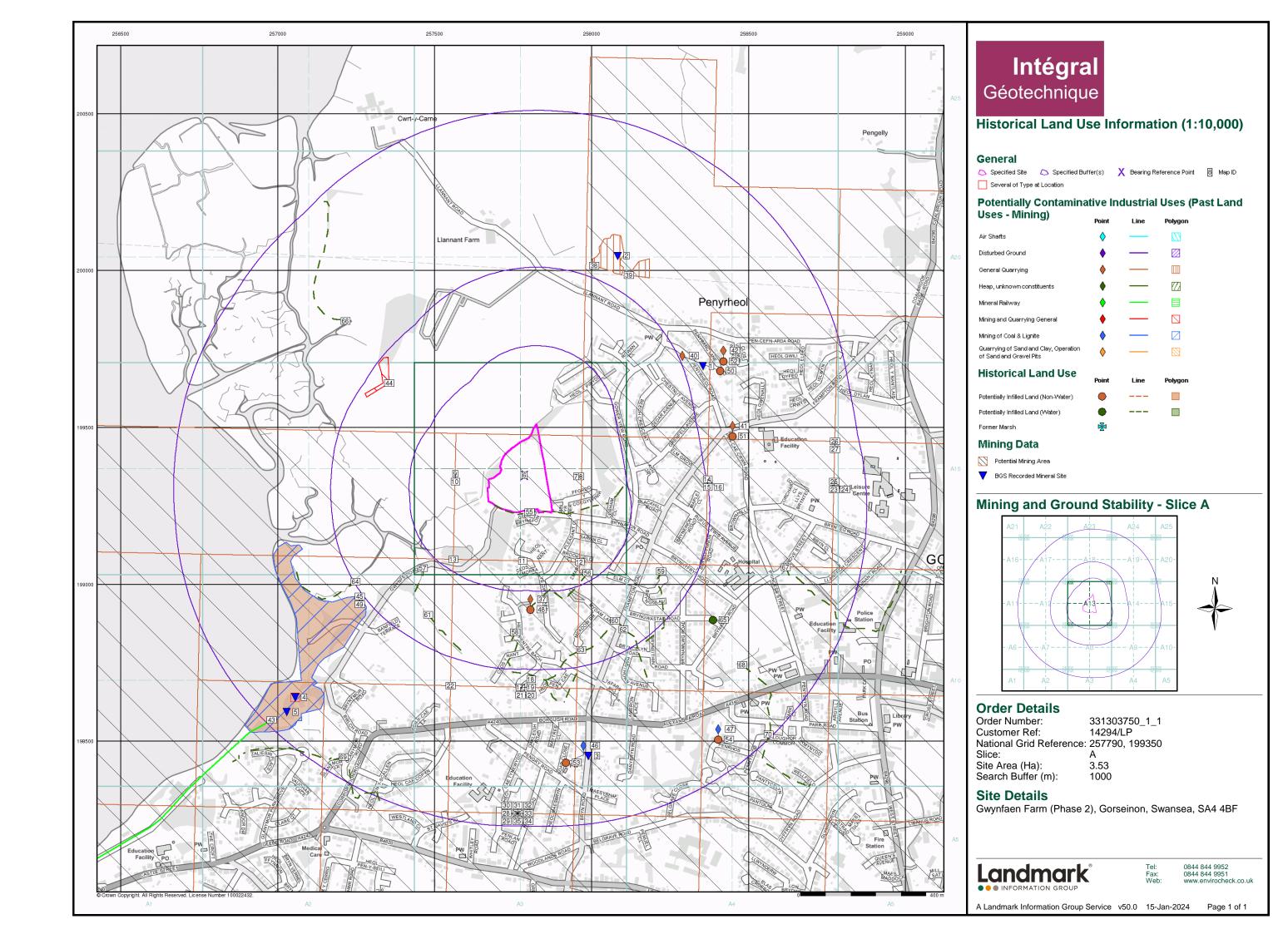
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

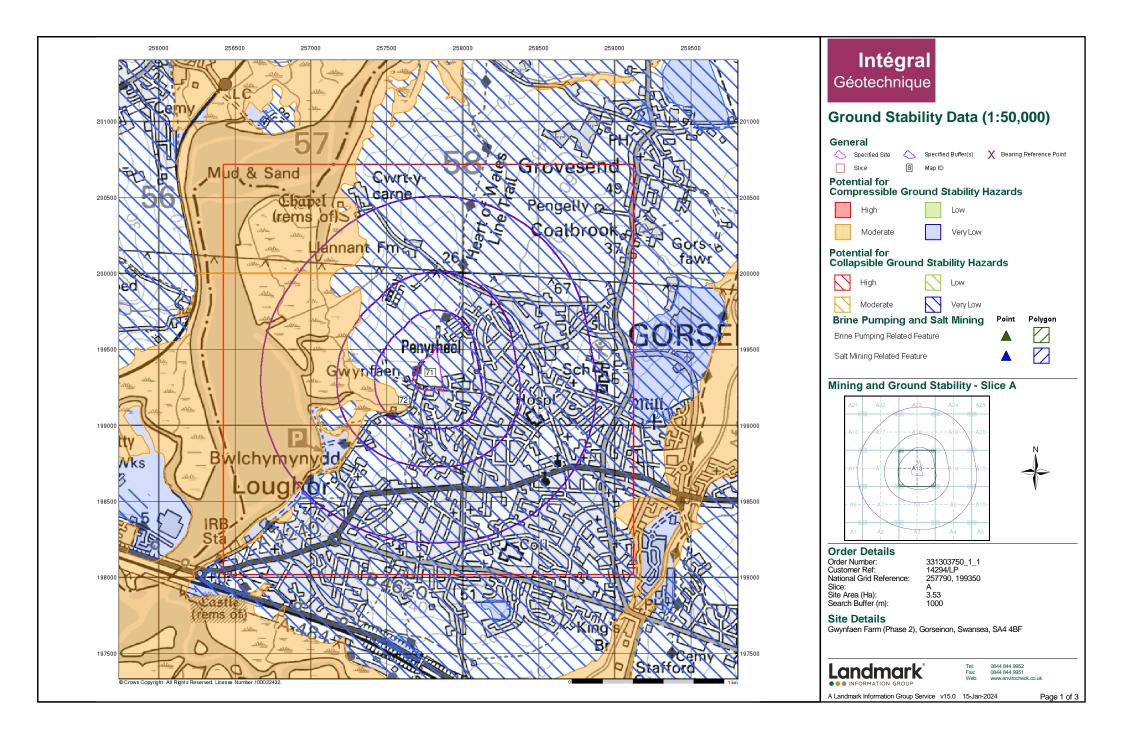


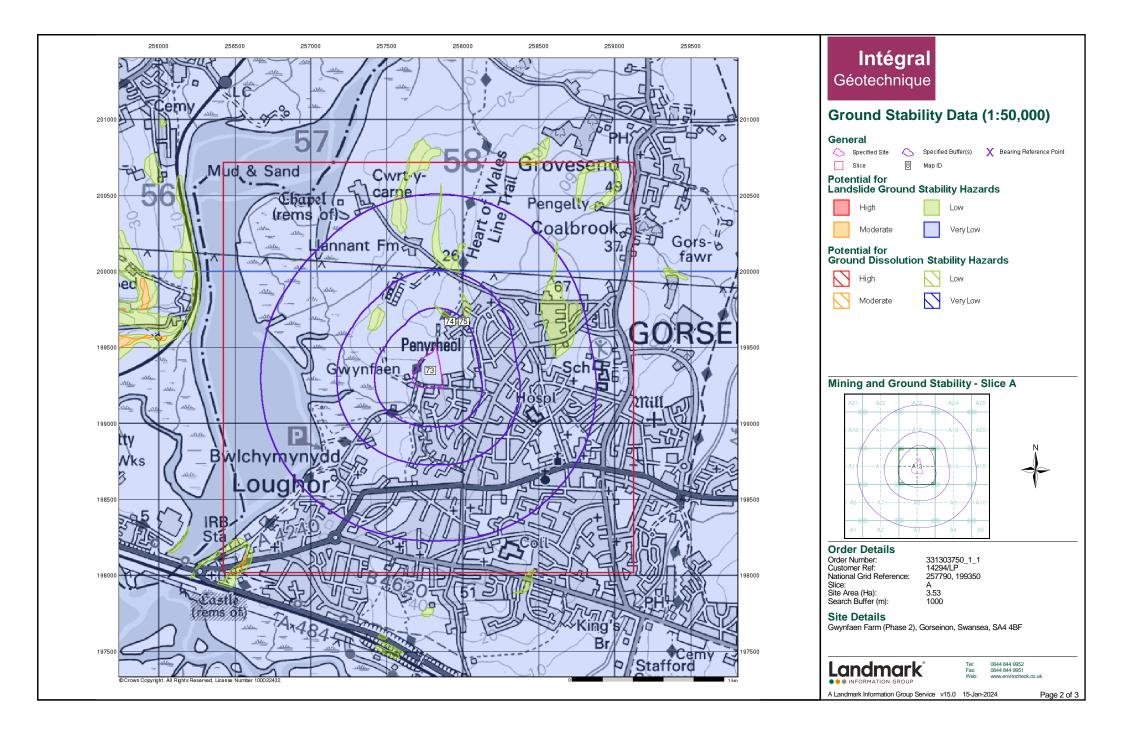
Useful Contacts

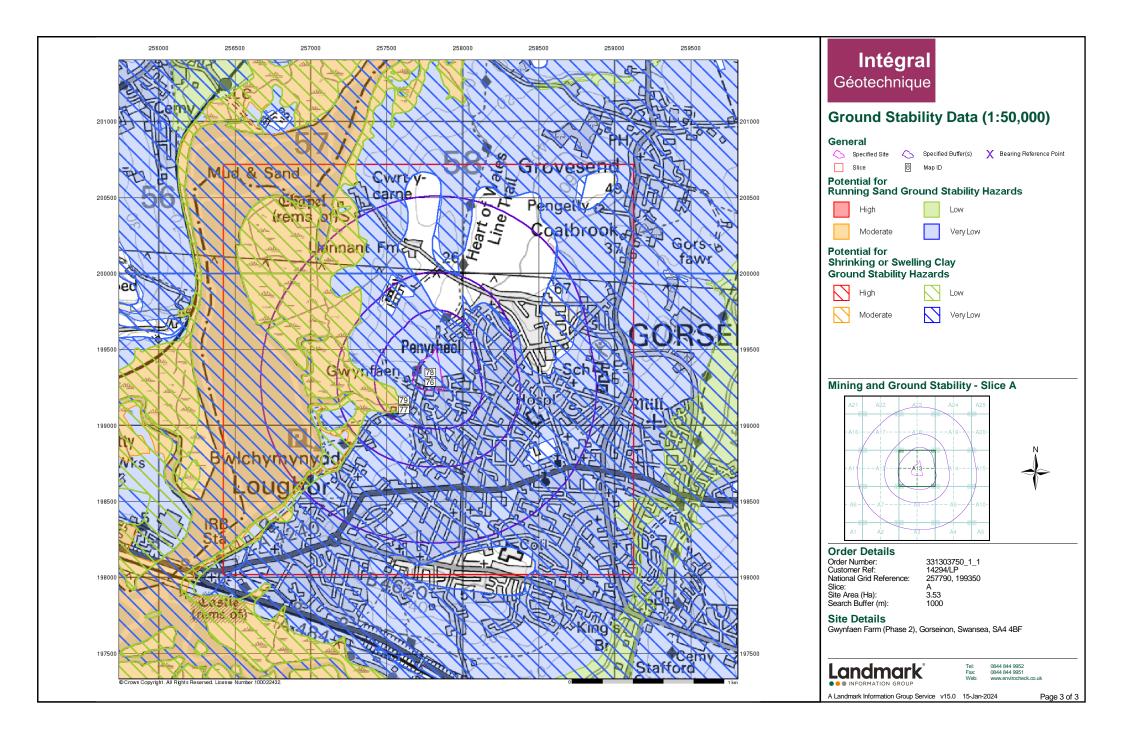
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	The Coal Authority - 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
3	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	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

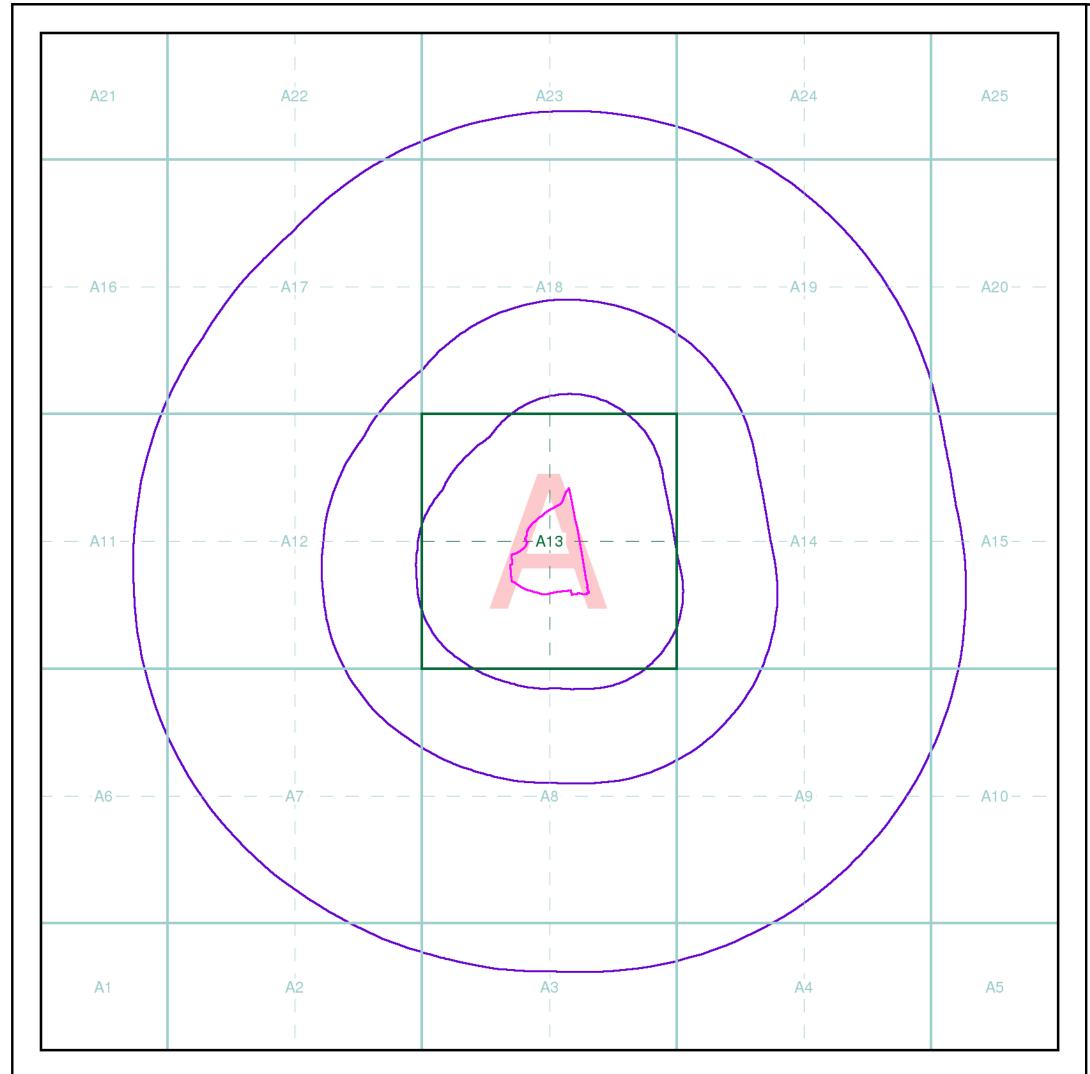












Intégral Géotechnique

Index Map

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

Slice

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

Seamer

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

Quadrant

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

A selection of organisations who provide data within this report:







Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR H Pritchard, Integral Geotechnique, Integral House, 7 Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX

Order Details

Order Number: 331303750_1_1 Customer Ref: 14294/LP National Grid Reference: 257780, 199340

Site Area (Ha): 3.53 Search Buffer (m): 1000

Site Details

Gwynfaen Farm (Phase 2), Gorseinon, Swansea, SA4 4BF

Full Terms and Conditions can be found on the following link: http://www.landmarkinfo.co.uk/Terms/Show/515

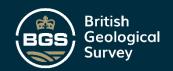


el: 0844 844 9952 ax: 0844 844 9951 /eb: www.envirocheck.co.uk

A Landmark Information Group Service v50.0 15-Jan-2024 Page 1 of 1

APPENDIX B

BGS RADON GEOREPORT



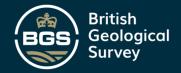
LAURA PULLIN
INTEGRAL GEOTECNIQUE (WALES) LTD
INTEGRAL HOUSE
7
BEDDAU WAY
CAERPHILLY
CF83 2AX

Radon Report

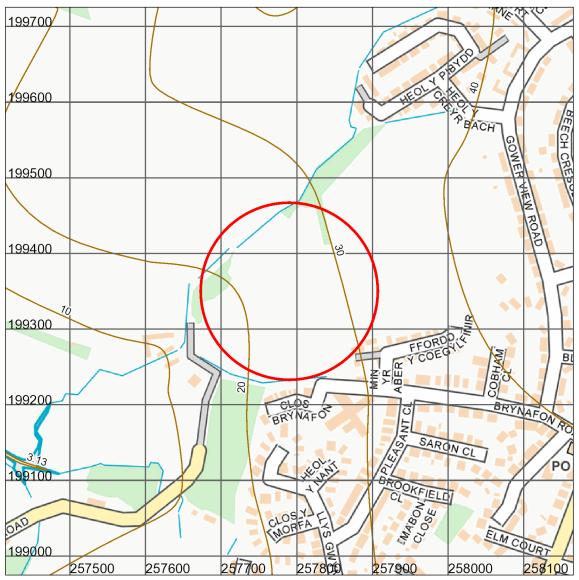
Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

Report Id: BGS 336637/51449

Client reference: 14294/LP Gwynfaen Farm (Phase 2)

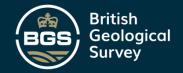


Search location



Contains OS data © Crown Copyright and database right 2024. OS OpenMap Local: Scale: 1:5 000 (1cm = 50 m) Search location indicated in red

Area centred at: 257790,199350 Radius of site area: 117 metres



Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

- 1. No protective measures
- 2. Basic protective measures
- 3. Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective* measures for new buildings (2023 edition), which also provides guidance on what to do if the result indicates that protective measures are required.

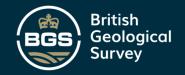
Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2023 edition) Radon: Guidance on protective measures for new buildings?

NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

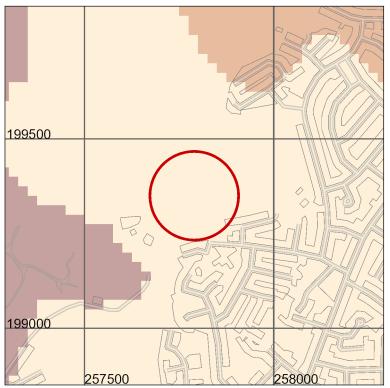
More details of the protective measures required are available in *BR211 Radon:* Guidance on protective measures for new buildings (2023 Edition).

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The UKHSA provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

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



Radon Affected Area



% Homes estimated to be at or above the action level
0-1%
1-3%
3-5%
5-10%
10-30%
30-100%

Contains OS data © Crown Copyright and database right 2024

Scale: 1:10 000 (1cm = 100 m) Search area indicated in red

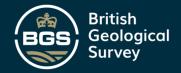
Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? NO

Additional Information

THE PROPERTY IS IN AN AREA WHERE LESS THAN 1% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL. THE PROPERTY IS NOT IN A RADON AFFECTED AREA.

The UKHSA recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air (Bq m⁻³) for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to be at or above the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a high radon level within the property; the only way to determine the radon level is to carry out a radon measurement.



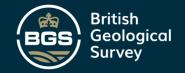
The UKHSA advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels at or above the Action Level (200 Bq m⁻³) should be remediated. Householders with levels between the Target Level (100 Bq m⁻³) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. The UKHSA provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a "Radon Affected Area" as identified by the UKHSA. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

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 at or above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from the UKHSA at www.ukradon.org.



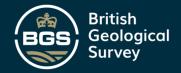
What is radon?

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 is at or above the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations 2017 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, Tel: 01923 664262, email: bookshop@bre.co.uk website: www.brebookshop.com



Contact Details

Keyworth Office

British Geological Survey Environmental Science Centre Nicker Hill Keyworth Nottingham NG12 5GG

Tel: 0115 9363100

Email: enquiries@bgs.ac.uk

Wallingford Office

British Geological Survey Maclean Building Wallingford Oxford OX10 8BB

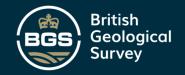
Email: enquiries@bgs.ac.uk

Edinburgh Office

British Geological Survey Lyell Centre Research Avenue South Edinburgh EH14 4AP

Tel: 0131 6671000

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 https://shop.bgs.ac.uk/georeports and also available from the BGS Enquiry Service 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 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 UK Research and Innovation (UKRI) 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 UKRI's permission, but if you are a consultant purchasing this report solely for the purpose of providing advice to your own individual client you may incorporate it unaltered into your report to that client without further permission, provided you give a full acknowledgement of the source. Please contact the BGS Copyright Manager, British Geological Survey, Environmental Science Centre, Nicker Hill, Keyworth, Nottingham NG12 5GG. Telephone: 0115 936 3100.

© UKRI 2024 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 2024. All rights reserved. Licence number AC0000824781 EUL



Report issued by BGS Enquiry Service

APPENDIX C CONSULTANTS COAL MINING REPORT FROM THE COAL AUTHORITY

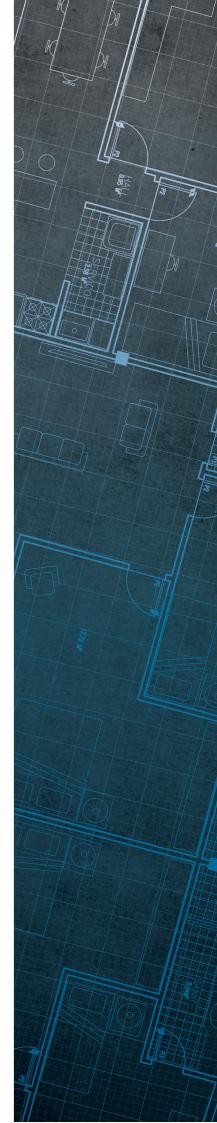


Consultants Coal Mining Report

Gwynfaen Farm (Phase 2) Gorseinon Swansea SA4 4BF

Date of enquiry: 16 January 2024
Date enquiry received: 16 January 2024
Issue date: 16 January 2024

Our reference: 51003399609001 Your reference: 14292/LP



Consultants Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

INTEGRAL GEOTECHNIQUE (WALES) LTD.

Enquiry address

Gwynfaen Farm (Phase 2) Gorseinon Swansea SA4 4BF

How to contact us

0345 762 6848 (UK) +44 (0)1623 637 000 (International)

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com





Approximate position of property



Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2018. All rights reserved.

Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	MYNYDDISL WYN LOWER LEAF	Coal	4CSY	160	North-East	11.6	South-West	162	1952
unnamed	UNNAMED	Coal	4CTD	234	North	10.8	South-West	150	1981
CAE DUKE	UNNAMED	Coal	4E39	244	South-East	15.1	South-West	180	1907
unnamed	UNNAMED	Coal	4D8Q	277	South	13.0	North	220	1903
unnamed	UNNAMED	Coal	4CT9	329	South	26.6	South	170	1904
unnamed	UNNAMED	Coal	4CT7	355	South	26.5	North	170	1911
unnamed	SWANSEA 6FT	Coal	4E36	358	East	11.9	South-West	220	1939
unnamed	UNNAMED	Coal	4CSS	385	Beneath Property	12.4	South-West	220	1942
unnamed	SWANSEA 6FT	Coal	4D8O	469	South	12.7	North-East	230	1943
unnamed	SWANSEA NO.3	Coal	4D8L	469	South	12.9	North-East	70	1941
unnamed	SWANSEA 6FT	Coal	4CSR	482	South-West	32.0	North	100	1939
unnamed	UNNAMED	Coal	4D8J	490	South	16.9	North	90	1948
unnamed	SWANSEA NO.3	Coal	4CT2	524	South-West	24.9	North	70	1945

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

SWA2835	SWA1075	11600
SWA696	SWA2507	

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
MYNYDDISLWYN BIG RIDER	Coal	Yes	Within	N/A	133

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 - Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

The Coal 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

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 - Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1976, 1977 and 1983.

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

Payments to owners of former copyhold land

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

Section 4 - Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 - Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

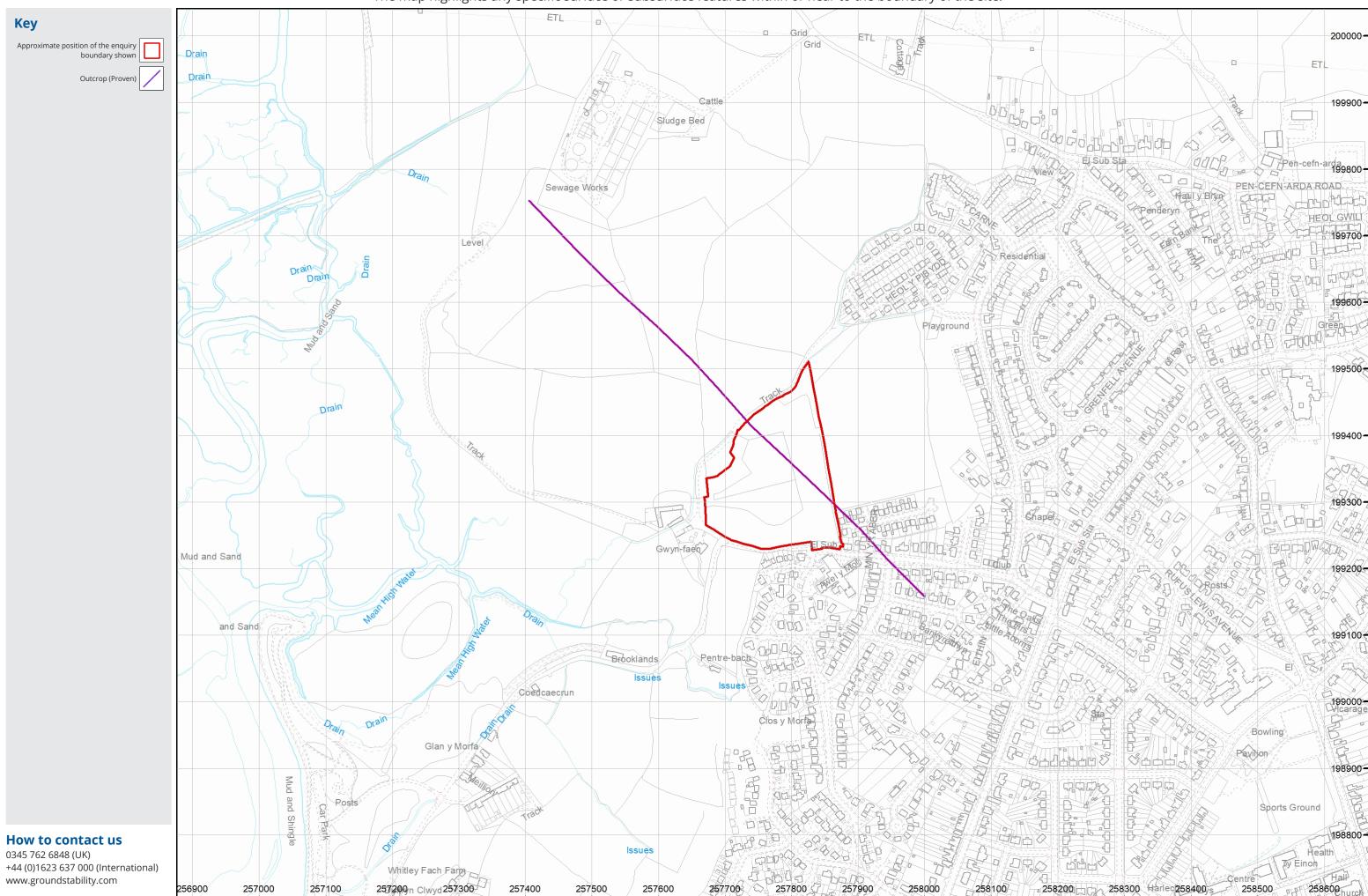
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

Summary of findings

The map highlights any specific surface or subsurface features within or near to the boundary of the site.







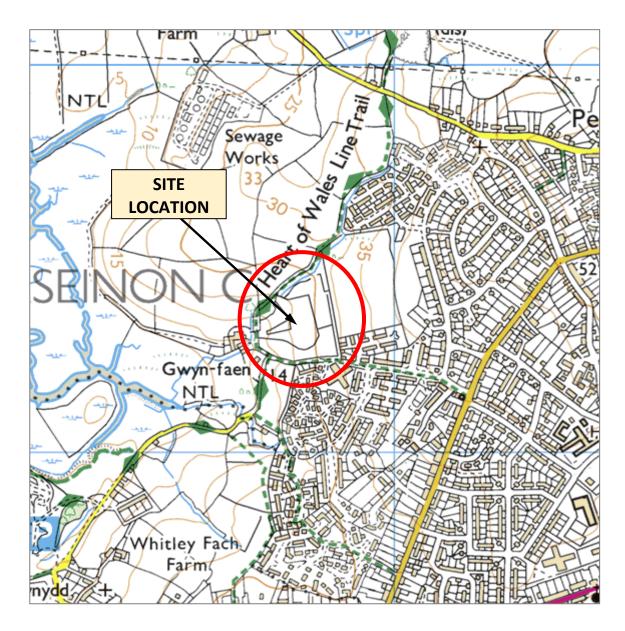


FIGURE 1: SITE LOCATION

Phase 2, Gwynfaen Farm, Gorseinon





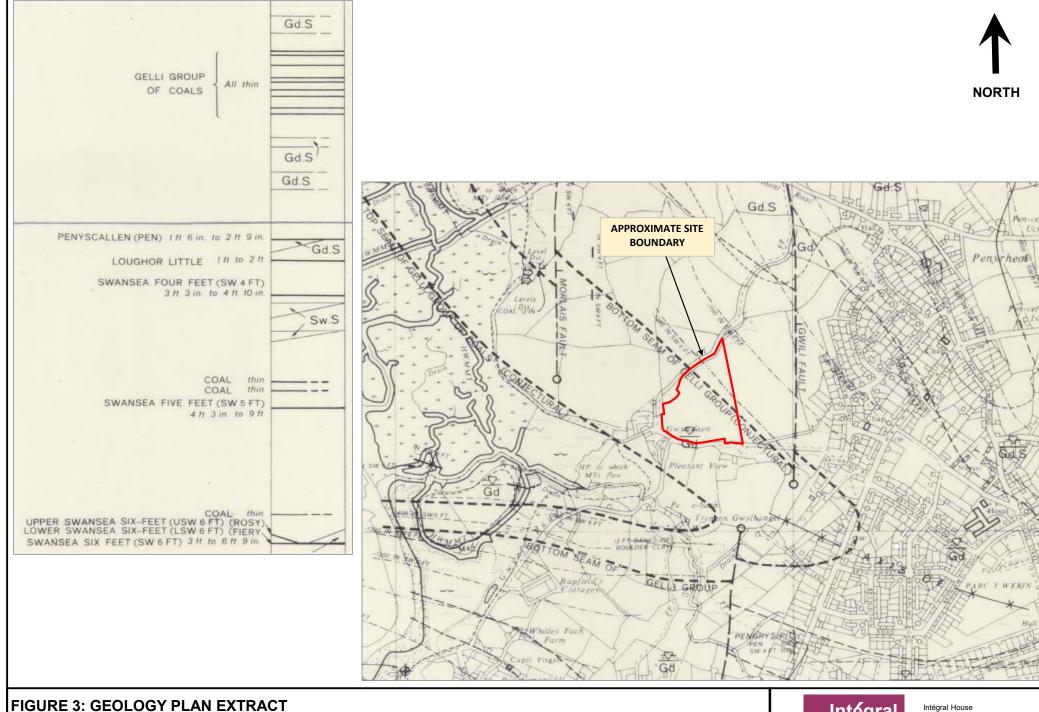




FIGURE 2: SITE PLAN

Phase 2, Gwynfaen Farm, Gorseinon





Phase 2, Gwynfaen Farm, Gorseinon





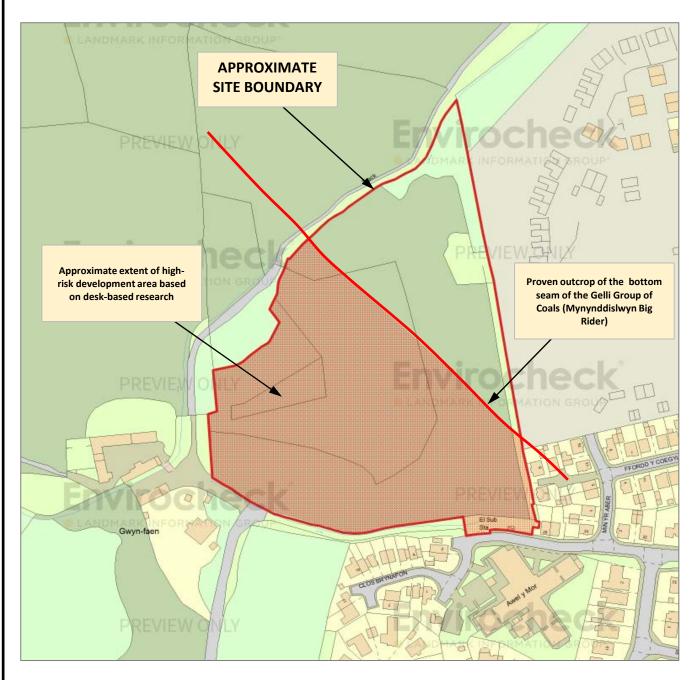


FIGURE 4: HIGH-RISK DEVELOPMENT ZONE

Phase 2, Gwynfaen Farm, Gorseinon

