

LAND OFF ELBA CRESCENT, SWANSEA

Desk Top Study and Preliminary Risk Assessment

JER9273

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EXECUTIVE SUMMARY

Section	Summary
Background	RPS Consulting Services Ltd (RPS) was commissioned by Hawkland Estates Ltd to undertake a Phase 1 Geo-Environmental Desk Study and Preliminary Environmental Risk of land off Elba Crescent, Swansea, SA1 8QQ. The report has been commissioned prior to the proposed redevelopment of the site.
Site Details	Site area: 3.1 ha National Grid Reference: SS 69867 93060 Current site use: The site currently comprises a disused car park / access roads and well vegetated / wooded areas. Proposed site use: The proposed development comprises residential use. Surrounding land use: The site is located in an area of mixed commercial, light industrial and residential land use.
Site Inspection	A site inspection was undertaken on 18 th October 2021. This identified potential sources of contaminants of concern including Made Ground, demolition debris/spoil, small amounts of fly tipping, electrical substation and drainage interceptors.
Previous Reports	A previous report included summaries of previous ground investigations undertaken at the site and wider area. These encountered elevated organic contaminants (notably hydrocarbons) within soils and groundwater, elevated metals in soils, and elevated ground gases.
Site History	A review of historical maps indicates the site was part of the King's Dock Works (Tin Plate) since c.1917. Expansion of the works c.1940 included railway lines and an engineering works c.1969. Off-site historical potential sources of contaminants of concern includes railway land and further tin plate works north and northeast of the site, and an oil storage depot to the south.
Environmental Setting	The site is indicated to be underlain by a Secondary A Aquifer relating to the superficial deposits which is underlain by a Secondary A Aquifers (relating to bedrock of the Middle Coal Measures). The site is not indicated to be located in a groundwater Source Protection Zone (SPZ) and there are no sensitive groundwater abstractions in the vicinity of the site.] The nearest surface water features are Cymlyn Brook approximately 400m northeast of the site and Swansea Bay approximately 390m south of the site. Cymlyn Burrows (designated SSSI) and Cymlyn Bog (designated SSSI, SAC and Ramsar) are located approximately 170m east and 380m north of the site respectively.
Preliminary Risk Assessment	An outline conceptual site model (CSM) has been derived on the basis of the desktop study and site reconnaissance. Following the redevelopment works, the potential risks to future site users via the dermal contact and ingestion pathways in areas of the site comprising building cover and hardstanding will be mitigated. Furthermore, the pathway for the airborne migration of soil/dust from these areas towards off-site receptors would not be active. However, these pathways may remain active in areas of soft landscaping. There is the potential for ground gas and volatile contaminants of concern in soil and/or groundwater beneath the site to impact future site users via the inhalation pathway in indoor areas. Groundwater within granular Made Ground and the underlying Blown Sands may constitute a potential pathway for the on or off-site migration of contaminants of concern to the underlying Secondary A Aquifers and Swansea Bay. The pathways of vapour inhalation to off-site human health receptors from potential contaminants of concern originating from the site may therefore also be active. There are also potential risks identified to foundations and service supplies for new structures/buildings from contaminants that may be present in shallow soils/groundwater.
Conclusions and Recommendations	The outline CSM produced upon completion of the desk study assessment has identified a number of potential pollutant linkages that may be active upon the redevelopment of the site. It is therefore recommended that the potential for these linkages to be active is assessed through a Phase 2 Geo-Environmental Site Investigation. The investigation should be targeted to provide information on: the concentrations of contaminants of concern (if present) within the soils beneath the site;

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- the concentrations of contaminants of concern within shallow groundwater (if present); and
 - the ground gas regime beneath the site.

It would be prudent to combine any site investigation undertaken for environmental purposes with geotechnical testing, in order to facilitate preliminary foundation and pavement design.

RPS can provide a cost for assisting with the further recommendations upon request.

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1 INTRODUCTION

1.1 Preamble

1.1.1 RPS Consulting Services Ltd (RPS) was commissioned by Hawkland Estates Ltd to undertake a Phase 1 Preliminary Environmental Risk Assessment of land off Elba Crescent, Swansea, SA1 8QQ. The report has been commissioned prior to the proposed redevelopment of the site.

1.1.2 The site covers approximately 4.6 hectares and currently comprises an area of undeveloped land with areas of hard standing previously used as car parking by previous developments on the site. A site location plan is presented as Drawing 1 (*Ref JER9238.SLP.01*).

1.1.3 This report is to be submitted for planning purposes for a proposed residential development.

1.1.4 The Desk Study assessment is based upon a review of published information available from local, regional, and national agencies. The desk study information is derived from an Envirocheck Report provided by Landmark Information Group, Ref. 285967663_1_1 which is presented as Appendix C. Please note the terms and conditions attached to the supply of data from Landmark.

1.2 Objectives

1.2.1 The principal objectives of this assessment were as follows:

- To assess potential sources of contamination at the site, associated with historical and current land uses both on site and in the surrounding area;
- To review the environmental setting to assess the sensitivity of the surrounding area to contamination/pollution;
- To produce an outline Conceptual Site Model (CSM) detailing how any contamination may impact the identified receptors via pollutant linkages;
- To present a preliminary geotechnical appraisal; and
- To conclude on the likely requirement for further assessment and investigation to support planning.

1.3 Legislation and Guidance

1.3.1 The assessment has been undertaken in general accordance with British Standard BS EN ISO 21365:2020 and is considered suitable to meet the initial requirements of planning as outlined within the National Planning Policy Framework (NPPF). The assessment also reflects the recommendations of Environmental Agency guidance, Land Contamination: Risk Management, (LCRM 2020).

1.3.2 This report has been produced in general accordance with:

- Contaminated Land (England) Regulations 2006 (as amended);
- DEFRA Environmental Protection Act 1990: Part 2A - *Contaminated Land Statutory Guidance* (2012);
- Environment Agency (2020) Land Contaminated: Risk Management (LCRM 2020);
- Planning Policy Wales (2021);
- CIRIA Document C665: *Assessing Risks Posed by Hazardous Ground Gases to Buildings*;
- British Standard requirements for the 'Investigation of potentially contaminated sites - Code of practice' (ref. BS10175:2011+A1:2017);

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- British Standard requirements for the '*Code of practice for ground investigations*' (ref. BS5930:2015+A1:2020); and,
 - British Standard requirements for the '*Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings*' (ref BS8485:2015+A1:2019).

1.3.3 Details of the limitations of this type of assessment are described in Appendix A

2 SITE RECONNAISSANCE AND DESK STUDY

2.1 Site Reconnaissance

2.1.1 This section of the report is based upon observations made during a site visit carried out on 18th October 2021. Selected photographs (plates) are shown in Appendix D.

The Site

Table 2-1 – Summary of on-site activities

Section	Description
Background:	The site is located off Elba Crescent, Swansea at SS 69867 93060. It is roughly rectangular in shape with the exception of the northeastern corner and occupies an area of approximately 3.1 ha.
Site Layout:	The site is at an approximate elevation of 7 mAOD. It comprises a disused car park / access roads and well vegetated / wooded areas. A perimeter bund (approximately 2m height) is on the northern boundary which appears to comprise vegetated demolition debris (concrete, brick, spoil). Palisade fencing, block stones, chain link fencing, railings, heras fencing demark site boundaries. See plates 1 and 2.
Activity / Operations:	Currently vacant land.
Building Structure(s):	A disused gatehouse building is present at the south entrance (brick construction with flat felt roof). See plate 11.
Surface Cover:	Tarmaced access road and car park (partially vegetated). Concrete access road and pavements with street lighting. Concrete ground floor slabs remain in the western part of the site from previous buildings/structures. Areas of grass, scrub and many mature trees – much of the site appears to be vegetated hardcore. See plates 3, 4, 5, 7 and 8.
Drainage:	Road gullies and underground car park drainage with 6 chamber concrete cased interceptor and control cabinet in the south of the car park. See plate 10. Interceptor drainage is also present at the southern entrance of the site.
Bulk Storage / Tanks:	None observed.
Waste:	Small mounds of demolition spoil and fly tipped material. See plates 6, 9 and 12.
Electricity Sub-Stations /Transformers:	Electricity sub-station (sewage pumping station) on southern boundary.
Visual Evidence of Contamination:	Small amounts of construction spoil and fly tipped material.
Statutory Nuisance:	None identified.
Other Geo-Environmental Issues:	Very uneven vegetated ground. Areas of very dense vegetation and mature trees inaccessible. No Japanese Knotweed or Giant Hogweed (invasive plant species) were readily identified on the site at the time of the survey. (It should be noted that the identification can be limited by the seasons and in areas of dense vegetation growth). This does not constitute a formal survey and specialist advice should be sort.

The Surrounding Area

2.1.2 The site is located in an area of predominantly commercial land uses. At the time of the site inspection, neighbouring land consisted of the following:

Table 2-2 – Neighbouring Land Uses

Direction	Description
North:	Trojan Electronics.

East:	Bay Studios – mixed commercial use.
South:	Elba Crescent with residential properties beyond.
West:	Unit Superheater Engineering.

2.2 Proposed Development

2.2.1 The proposed development is to comprise a residential end use.

2.3 Site History

Historical Map Review

2.3.1 The following review is based on past editions of readily available Ordnance Survey (OS) maps. These include scales of 1:1,250, 1:2,500 and 1:10,000 dated 1881 to 2021.

Table 2-3 – Historical Site Uses

On-site Land Use and Features	Dates
Undeveloped land above the High Water Mark.	1881 to 1900
Part of the King's Dock Works (Tin Plate) with embankment shown on the northern fringe of the site.	1917
A Building (part of the King's Dock Works) occupies much of the western part of the site. An access road is shown in the eastern part of the site. Railway lines within the central and southern area of the site are shown as part of the King's Dock Works c.1941. Eastern area of the site is shown to be part of a Rifle Range c.1951.	1938 to 1964
A building (part of the King's Dock Works (engineering)) encroaches upon the western edge of the site with much of the site now indicated to be vacant. A car park in the southern part of the site extends to the north c. 1992. Buildings (known) are present in the southeastern part of the site.	1969 to 1999
No buildings shown on site. Roads are present in the eastern section of the site.	2021

Table 2-4 – Historical Neighbouring Site Uses

Surrounding Land Uses (250m radius)	Orientation	Distance	Dates	
			From	To
Great Western Railway. Dismantled c. 1980.	North	200m	1884	1980
Rhondda and Swansea Bay Railway. Dismantled c. 1980.	North	150m	1900	1980
King's Docks Works main buildings and tanks. Ford Works Motor Corporation from c. 1969.	North	0m	1921	1969
Elba Works (Tin Plate). Ford Works Motor Corporation from c. 1969.	Northeast	125m	1938	1969
Rifle Range	East	0m	1951	1964
Oil Storage Depot	South	100m	1979	1999

Site Planning History

2.3.2 Relevant and readily available planning records for the site, as obtained from Neath Port Talbot Council planning website are summarised as follows:

- P2004/1554 – linear residential development on the frontage part of the site. Outline planning permission approved June 2005.

- P2008/0514 – relates to a larger site, the assessment site being for residential development. Outline planning permission granted September 2011.
- P2017/0800 – Extension of approval period for reserved matters in relation to the above permission.

2.2 *None of the above planning permissions included planning conditions pertaining to the investigation of potentially contaminated land at the site.*

2.4 Previous Reports

2.4.1 RPS has been provided with the report detailed below for review.

- ESP, Geo-environmental Desk Study Report, Elba Crescent Visteon Site, Swansea, September 2008. Reference 4274s/1432.

2.4.2 It is noted that a text only version of the report has been provided (figures and appendices not provided). RPS cannot vouch for the accuracy or validity of the information provided within third party reports and the following opinion is based solely upon the reports. Legal reliance should be sought from the original authors of these reports where their content is considered material to the characterisation of the site. RPS comments are provided in *italics*.

Report Summary:

2.4.3 The ESP report indicates the Blown Sands may contain peat horizons and are in turn underlain by Alluvial deposits (sands, clays, silts and gravels) and Glacial Till.

2.4.4 The report references a number of ground investigations undertaken at the site and wider area. The summary findings relevant to the Application Site are provided below.

Hyder Consulting – January 2003

- *Assessment and geo-environmental investigation undertaken across the former Visteon site (larger area with current site within assessment footprint)*
- *Elevated levels of Copper and Zinc were recorded within the soils generally across the site;*
- *Generally low levels of contamination (Polycyclic Aromatic Hydrocarbons (PAH) and Total Petroleum Hydrocarbons (TPH)) were encountered in the soils and groundwater surrounding the site;*
- *Low concentrations of methane and carbon dioxide were encountered in close proximity to the site;*
- *Strong hydrocarbon odours were noted within all trial pits to the north and to the northwest of the Kings Dock Building approximately 70m to the north of the site;*
- *Elevated levels of light range hydrocarbons (Benzene, Toluene, Ethylbenzene and Xylene (BTEX)) were encountered in trial pits approximately 70m to the north;*
- *Evidence of significant hydrocarbon contamination within the groundwater was encountered in the northwestern area, with elevated levels of PAH (14,920ug/l) and TPH (760,000ug/l) recorded;*
- *Elevated concentration of methane and elevated levels of carbon dioxide (up to 10.2%) were also encountered in the northwestern corner of the site.*

ESP – August 2008

- *Assessment and geo-environmental investigation undertaken for the Kings Dock Building immediately north of the current Assessment Site*

- A series of 13no. trial pits, and 6no. boreholes were carried out to obtain more detailed information on the ground conditions and contamination status of the Kings Dock Building site.
- Slight to strong hydrocarbon odours were noted in the majority of the trial pits and boreholes to the northwest and to the north of the Kings Dock Building;
- Elevated levels of organic contaminants, notably TPH and PAH were consistently identified within all phases (soil, leachate and groundwater) to the northwest and to the north of the Kings Dock Building;
- Significantly elevated concentrations of methane (up to 25.5%) and slightly elevated levels of carbon dioxide (up to 7.1%) were encountered;
- In relation to the proposed end use the soil contaminant levels were considered low and no specific remedial measures were required for the development;
- A Controlled Water Risk Assessment demonstrated that levels measured at the site would not pose a risk to groundwater at a compliance point set at 50m, relative to the direction of groundwater flow (south/south-west);
- In relation to the proposed end use, the risk posed by potential ground gas was considered low, and no gas protection measures were considered necessary.

ESP – September 2008

- A series of 8no. trial pits, and 3no. boreholes were carried out to obtain more detailed information on the ground conditions and contamination status of the adjacent site;
- No visual or olfactory evidence of contamination was encountered during the investigation;
- Slightly to Moderately elevated levels of organic contaminants, notably TPH and PAH were identified within all phases (soil, leachate and groundwater);
- In relation to the proposed end use the soil contaminant levels were considered low and no specific remedial measures were required for the development;
- A Controlled Water Risk Assessment demonstrated that levels measured at the site would not pose a risk to groundwater at a compliance point set at 50m, relative to the direction of groundwater flow (south/south-west);
- Slightly elevated concentrations of methane (0.5%) and slightly elevated levels of carbon dioxide (up to 2.1%) were encountered at the site;
- In relation to the proposed end use, the risk posed by ground gas was considered low, and no gas protection measures were considered necessary.

2.5 Environmental Setting

Geology

- 2.5.1 Based on British Geological Survey (BGS) mapping (1:50,000-scale) and Natural Resources Wales (NRW) Groundwater Vulnerability mapping (1:100,000-scale), the stratigraphic sequence and aquifer classifications beneath the site are indicated to be as follows:

Table 2-5 – Descriptions of Geological Strata

Strata	Description & approximate thickness	Aquifer Classification
--------	-------------------------------------	------------------------

Blown Sand	Sand (with shells) – 10m*	Secondary A Aquifer
Middle Coal Measures	Mudstones, siltstones and sandstones - unknown	Secondary A Aquifer

*BGS borehole log (ref. SS69SE2).

2.5.2 Made Ground is likely to be present across the site as a result of past construction and/or demolition activities. The extent and nature of Made Ground is uncertain given the level of investigation undertaken to date.

2.5.3 A BGS borehole record (ref: SS69SE2) for a borehole located approximately 30m north of the Assessment Site identified the following:

- Approximately 10m of sand with shells from approximately 6m depth and with large stones towards the base;
- Underlain by clay / sandy clay and stones interbedded with sandstone horizons to approximately 43m depth. Sandstone horizons between approximately 0.3m and 4m thickness. Shale horizon at approximately 40m depth (0.6m thickness).

Hydrogeology

2.5.4 The site is located above a Secondary A Aquifer which relates to both the superficial deposits and bedrock geology beneath the site:

- Secondary A Aquifer: These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.

2.5.5 According to NRW data, the site is not located in a groundwater Source Protection Zone (SPZ).

2.5.6 Under the Water Framework Directive, NRW's local River Basin Management Plan classifies groundwater chemical quality beneath the site as poor quality.

2.5.7 Information provided by the EA indicates that there are no records of active licensed groundwater abstractions within 2km of the site.

2.5.8 Groundwater levels beneath the site are expected to be tidally influenced.

Surface Water

2.5.9 There is one watercourse and one coastal water body within 1km of the site which are classified within the River Basin Management Plan published by NRW under the European Water Framework Directive (2000). A list of readily identifiable nearby watercourses and water bodies is as follows:

Table 2-6 – Nearby Watercourses and Water Bodies

Watercourse / Body	Quality Classification	Approx. Distance and Direction from Site
Crymlyn Brook	Overall – moderate Ecological – moderate Chemical - good	400m Northeast
Swansea Bay	Overall – moderate Ecological – moderate Chemical - fail	390m South

2.5.10 Information provided by NRW indicates that there are records of two active licensed surface water abstractions within 2km of the site. The details of these are as follows:

Table 2-7 – Licensed Surface Water Abstractions

Licence Holder	Use	Approx. Distance and Direction from Site
Hawk Plant Hire Ltd	1.4km North	Surface
St Mowden Properties Plc and BP Oil Llandarcy Refinery Ltd	1.4km North	Surface

Ecologically Sensitive Sites

2.5.11 Natural England data indicates that there are three ecologically sensitive sites, that constitute environmental receptors as defined within Table 1 of the DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012), located within a 1km radius of the site.

- Crymlyn Burrows is designated a Site of Special Scientific Interest (SSSI) located approximately 170m east of the site.
- Crymlyn Bog is designated a SSSI, Special Area of Conservation (SAC) and Ramsar located approximately 380m north of the site.
- Crymlyn Bog and Pant y Sais is designated a National Nature Reserve (NNR) located approximately 580m north of the site.

Radon

2.5.12 According to the Indicative Atlas of Radon in England and Wales published by the Health Protection Agency (part of Public Health England) and the British Geological Survey, the site is located in an interim probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.

Coal Authority

2.5.13 The Interactive Map Viewer on the Coal Authority website indicates that the site is within a coal mining reporting area but is not located within a Development High Risk Area.

Non-Coal Mining

2.5.14 There are no non-coal mining hazards identified for the site.

BGS Ground Stability Hazard Ratings

2.5.15 British Geological Survey Ground Stability Hazard ratings for the site are summarised as follows

Table 2-8 – BGS Ground Stability Hazard Ratings

Ground Stability Hazard	BGS Risk rating
Collapsible ground	No hazard.
Compressible ground	No hazard.
Ground dissolution	No hazard.
Landslide	Very low hazard.
Running sand	Low hazard.
Shrinking or swelling clay	No hazard.

2.6 Authorised Processes and Pollution Incidents

Landfills and Waste Sites

- 2.6.1 Data provided by NRW, Local Authority and BGS indicates that there are no recorded licensed or known historical landfill sites located within 250m of the site.
- 2.6.2 Information provided by a number of sources (detailed below) shows that there are three active or historical waste treatment / transfer sites recorded within 250m of the site. These are described within the following table.

Table 2-9 – Waste Transfer / Waste Management Sites

Source of Record	Approx. Distance and Direction	Licence Details	Waste Type and Details
Waste Transfer / Treatment Sites			
NRW	60m Northwest	Trojan Electronics Ltd	WEEE treatment
NRW	110m North	Gower Chemicals Ltd	Household, commercial and industrial transfer station
NRW	230m West	Neath Port Talbot Recycling Ltd	Material recycling treatment

Environmental Permits

- 2.6.3 NRW and Local Authority data indicates that there are three processes regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 500m of the subject site. These are outlined in the table below:

Table 2-10 – Environmental Permits

Licence Holder	Approx. Distance and Direction from Site	Permitted Activity
Neath Port Talbot Recycling Ltd	180m North	Part A – Disposal of non hazardous waste involving physio-chemical treatment and incineration of non hazardous waste.
Crymlyn Burrows Materials Recycling and Energy Centre	250m West	Part A – details unknown.
Visteon Automotive Systems	40m East	Part B – Coating of metal and plastic

COMAH Sites

- 2.6.4 There are three records of active and historical operations under the Control of Major Accident Hazards (COMAH) Regulations 1999, located within 500m of the site.
- 2.6.5 These are all Lower Tier sites (Shell Direct, Ford Motor Company and Gower Chemicals Ltd.).

Pollution Incidents

- 2.6.6 Environment Agency data indicates that there is one record of a 'major' or 'significant' pollution incidents within 500m of the site. This is outlined in the following table:

Table 2-11 – Pollution Incidents on site and significant incidents within 500m

Location/Address	Approx. Distance and Direction from Site	Receiving Medium and Date	Severity of Incident and Type
Opposite Blazers Caravans, Ewloe	280m West	Not provided – October 1996	Major incident, crude sewage due to mechanical / electrical plant failure

2.7 Unexploded Ordnance

- 2.7.1 CIRIA Report C681 (stone et al 2009) outlines recommendations for dealing with the potential risk associated with the legacy of Unexploded Ordnance Risk, largely relating the WWII bombing and military sites.
- 2.7.2 Reference to the Zetica Unexploded Bomb Risk mapping indicates the site is located within a Luftwaffe target area. The site is indicated to be in an area of low potential risk from Unexploded Bombs, therefore in general accordance with CIRIA Report no further consideration of Unexploded Ordnance is considered necessary.
- 2.7.3 Notwithstanding RPS Explosives Engineering Services (EES) has undertaken several studies in the local area and are aware of several sources of UXO including a potential UXO risk from the former rifle range. It is recommended that a sperate UXO study is undertaken to assess the risk posed by UXO.

3 OUTLINE CONCEPTUAL SITE MODEL

3.1 Background

- 3.1.1 An outline conceptual site model (CSM) consists of an appraisal of the *source-pathway-receptor* 'contaminant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.
- **Source** referring to the source of contamination (Hazard).
 - **Pathway** for the contaminant to move/migrate to receptor(s).
 - **Receptor** (Target) that could be affected by the contaminant(s).
- 3.1.2 Receptors include human beings, controlled waters and buildings / structures. The National Planning Policy Framework, used to address contaminated land through the planning process, follows the same principles as those set out under Part 2A. Further details on the Part 2A regime are presented within **Error! Reference source not found..**
- 3.1.3 As part of the assessment, the potential risks to receptors for potential sources is given one of the following classifications:
- **Low risk** - it is considered unlikely that issues within the category will give rise to significant harm to identified receptors
 - **Moderate risk** - it is possible, but not certain that issues within the category will give rise to significant harm to receptors
 - **High risk** - there is a high potential that issues within the category will give rise to significant harm to identified receptors

3.2 Potential Pollutant Linkages

- 3.2.1 Each stage of the potential pollutant linkage sequence has been assessed individually on the basis of information obtained during the site reconnaissance, review of a previous Phase 1 report and desk study exercise and are discussed in the following section.

Potential Contaminant Sources

On Site – Current

- 3.2.2 Current on site potential sources of contaminants of concern include:
- Demolition materials (asbestos);
 - Electricity sub-station (oils, polychlorinated biphenyls (PCBs)).
- 3.2.3 Made Ground is expected to be present beneath the site, where present this could represent a potential sources of contaminants of concern and / or ground gas.

On Site – Historical

- 3.2.4 Historical maps indicate the following potential sources of contaminants:
- Tin Plate Works.
 - Rifle Range;
 - Railway land.

-
- Engineering works.

Off-site – Current

3.2.5 Current off-site potential sources of contaminants of concern include:

- Waste transfer and waste management sites.

Off-Site – Historical

3.2.6 Historical maps indicate the following potential sources of contaminants:

- Railway land;
- Oil Storage Depot
- Tin Plate Works (inc. Tanks).

Potential Pathways

- 3.2.7 In areas of the site covered by buildings or hardstanding the risks to future on site human health receptors via the pathways of dermal contact and ingestion will be mitigated. However, in areas of proposed soft landscaping (including gardens), the pathways of dermal contact and ingestion could still be active, and there would be potential for the airborne migration of soil/dust from these areas.
- 3.2.8 There is the potential for ground gas and volatile contaminants of concern in soil and/or groundwater (if present) beneath the site to impact future site users via the inhalation pathway in indoor areas.
- 3.2.9 There is the potential for contaminants of concern (if present) beneath the site to migrate on or off-site via granular horizons of the Made Ground (if present) and the Blown Sands. These may impact controlled waters receptors or on/off-site human health receptors via the dermal contact, ingestion and vapour inhalation pathways or other sensitive environmental receptors through impacted groundwater.

Potential Receptors

- 3.2.10 Potential post development human health receptors include future site users and off-site human health receptors.
- 3.2.11 Surface Water - the shallow groundwater beneath the site is expected to be high, potentially tidal and in continuity with Swansea Bay coastal water body, which is located approximately 390m to the south of the site.
- 3.2.12 The superficial deposits and the Middle Coal Measures (classified as Secondary A Aquifers) present beneath the site represent sensitive receptors. Given the classification however and there are no identified licensed abstractions or source protection zones within 2 km and again potentially likely to be saline and unsuitable as a potable source.
- 3.2.13 Proposed buildings – foundations or services could be prone to chemical attack via direct contact with contaminated soils/groundwater or elevated concentrations of sulphates or acidic pH. Accumulation of toxic/explosive ground gases in buildings/structures.
- 3.2.14 The assessment does not consider the risk to construction/demolition workers during redevelopment. These risks will be managed through appropriate H&S legislation include H&S at Works Act and CDM regulations.

3.3 Outline Conceptual Site Model

- 3.3.1 An outline CSM has been developed on the basis of the site reconnaissance and desk study. The CSM is used to identify potential sources, pathways and receptors (i.e. potential pollutant linkages) on site post development and is summarised in the table below.

Table 3-1 – Outline Conceptual Site Model

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
On site – current: Made Ground and spoil materials. Former Tin Plate Works, Rifle Range and Railway land. On site – historical: Railway land and metal works. Oil Storage Depot. Tin Plate Works (inc. Tanks).	Metals, hydrocarbons, solvents, glycols, PCBs and asbestos	Soil	Direct contact/ingestion/inhalation of dusts/fibres	✓	Future site users	Moderate to High	Heavy industrial contaminative historical use and presence of Made Ground.
			Inhalation of volatiles	✓		Moderate to High if accumulation in buildings Low for outdoor exposure	Reduced risk due to the age of potential contamination. Significant hydrocarbon contamination identified by historical ground investigations (includes light range).
			Airborne migration of soil or dust	✓	Off-site users	High	Greater risk during construction. Receptors adjacent to the site.
			Leaching of mobile contaminants	✓	Secondary A Aquifer	Moderate	Reduced risk due to the age of potential contamination.
			Direct Contact	✓	Proposed building foundations/	Moderate	Potentially deleterious Made Ground from past activities may be present and present a significant risk to buried structures or services.
		Groundwater	Inhalation of volatiles	✓ ✓	Future site users Off-site users	Moderate to High	Reduced risk due to the age of potential contamination. Significant hydrocarbon contamination identified by historical ground investigations (includes light range).
			Vertical and lateral migration in permeable strata	✓ ✓ ✓	Secondary A Aquifer Swansea Bay Crymlyn Bog	Moderate to High	

Off-site – current: Engineering works Off site – historical: Railway land, metal works, oil storage depot.	Hydrocarbons, solvents.	Groundwater	Direct contact/ingestion Inhalation of volatiles	✓	Future site users	High	Heavy industrial contaminative historical use and presence of Made Ground. Reduced risk due to the age of potential contamination. Significant hydrocarbon contamination identified by historical ground investigations (includes light range).
On and off-site – Made Ground / Natural - bio-degradation of contamination and decomposition of peat / other organic material.	Carbon dioxide and methane	Ground Gas	Inhalation of ground gas	✓ ✓	Future site users Off-site users	High in buildings Low – outdoor exposure	Heavy industrial contaminative historical use and presence of Made Ground. Elevated ground gases identified during historical ground investigations.
			Explosive risks	✓ ✓	Future site users Off-site users Future and off-site Structures	High in buildings Low – outdoor exposure	

Note The Qualitative Risk Rating does not consider the potential for the pathway to be active. In the event that a Moderate or High Qualitative Risk Rating is identified further assessment is recommended.

4 PRELIMINARY GEOTECHNICAL RISK REGISTER

4.1 Introduction

4.1.1 It is understood that the proposed development comprises a residential development.

4.2 Preliminary Geotechnical Risk Register

4.2.1 The following table summarises the potential geotechnical hazards associated with the proposed development based on freely available published information. Preliminary information relating to the hazard and associated engineering considerations are provided.

Table 4-1 - Preliminary Geotechnical Risk Register

Hazard Description	Potential for Hazard	Comments / Possible Engineering Requirements
Sudden lateral / vertical changes in ground conditions	H	There is potential for a significant thickness of Made Ground to be present at the site which is indicated to overlie Blown Sands with bedrock of the Middle Coal Measures. There is potential for relic structures to be present beneath the site. Variation in the nature and distribution of superficial soils and Made Ground may result in excessive differential and total settlement. Site investigation works will be required to confirm the ground conditions across the site, identifying any potential changes in strata and low strength soils.
Highly compressible / low bearing capacity soils, (including peat and soft clay)	L	These ground conditions have not been identified at the site.
Ground dissolution features / natural cavities	L	Ground conditions beneath the site are not consistent with these conditions.
Shrinking and swelling clays	M	The underlying geology is not considered a material subject to high volume change potential. Mature trees have been identified on site. The potential effect of these on the depth required for the foundation should be assessed in accordance with the NHBC Manual guidelines.
Slope stability issues	L	Whilst no significant slopes are present on site, any temporary slopes created as part of the development should be subject to appropriate geotechnical design based on site-specific site investigation information.
High groundwater table (including waterlogged ground)	M/H	Groundwater is expected to be at a relatively high level and tidally influenced. Excavations may be unstable and excavation support as well as groundwater control measures may be required.
Filled and Made Ground (including embankments)	L/M	Made Ground is present on site – hardcore and demolition debris is visible at surface.
Obstructions (including foundations, services, basements, tunnels and adjacent sub-structures)	L/M	Relic structures could be encountered within the footprint of former buildings/structures, which may require removal to enable the construction of the proposed development. It is likely these obstructions, if encountered may be removed using standard construction plant.
Underground mining	L	Underground mining has not been indicated for this site.
Concrete classification	L/M	Unknown.

4.2.2 The potential risks are given one of the following classifications:

-
- **Low risk** - it is considered unlikely that issues within the category will give rise to significant damage in relation to the proposed development.
 - **Moderate risk** - it is possible, but not certain that issues within the category will give rise to significant damage in relation to the proposed development.
 - **High risk** - there is a high potential that issues within the category will give rise to significant damage in relation to the proposed development.
 - **N/A** - The anticipated ground conditions are not consistent with this hazard.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Planning Assessments

5.1.1 The outline CSM produced upon completion of the desk study assessment has identified a number of potential pollutant linkages that may be active upon the redevelopment of the site. It is therefore recommended that the potential for these linkages to be active is assessed through a Phase 2 Site Investigation. The scope of this investigation should include the following:

- Drilling of a number of boreholes across the site targeting identified potential sources and pollutant linkages;
- Collection of soil and groundwater samples with chemical analysis of these samples for contaminants of concern;
- Installation and monitoring of groundwater and ground gas monitoring wells;
- Assessment of ground conditions and generic quantitative risk assessment of soil and groundwater chemical analysis results to determine the potential for the identified potential pollutant linkages to remain active upon redevelopment of the site; and
- Provision of recommendations (where necessary) for remediation/mitigation measures to ensure that any identified potential pollutant linkages are not active upon redevelopment of the site.

5.1.2 It is often cost efficient to combine any site investigation undertaken for geo-environmental purposes with geotechnical studies, to facilitate preliminary foundation and pavement design (and to address the potential constraints identified in Section 4).

5.1.3 RPS can provide a cost for assisting with the further recommendations upon request.

5.2 Other Considerations

5.2.1 We recommend the following actions to reduce or clarify other potential environmental risks at the site:

- It is recommended that interceptors on site should be appropriately decommissioned and, if unlikely to be used in future, removed from the site; and
- It is recommended that further assessment of the UXO risk is undertaken of the former rifle range

5.2.2 RPS can provide a cost for assisting with the further recommendations upon request.

Ground Stability

5.2.3 There is the potential for significant additional development costs to be incurred associated with the removal of any infill material.

REFERENCES

BGS. British Geological Survey Onshore GeoIndex. [online] Available at: <http://www.bgs.ac.uk/geoindex/> [Accessed October 2021].

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Department of the Environment (1996): Industry Profile – Metal manufacturing, refining and finishing works – non ferrous metal works (excluding lead works).

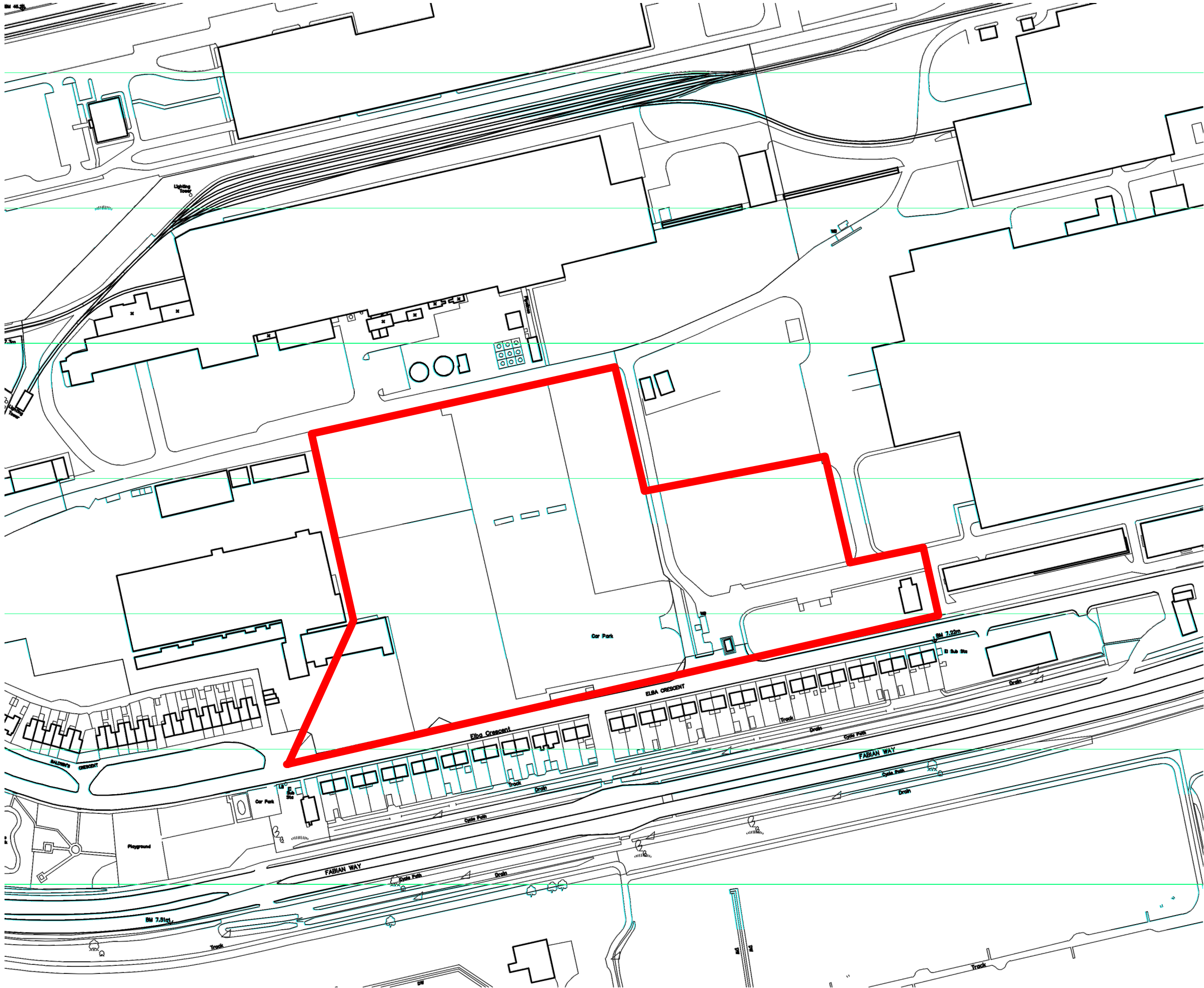
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CIRIA C681 (2009) Stone (et al) Unexploded Ordnance (UXO) A Guide for the Construction Industry.

Environment Agency (2020): Land Contamination: Risk Management (LCRM 2020).

<https://magic.defra.gov.uk/>

<https://zeticauxo.com/downloads-and-resources/risk-maps/>



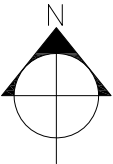
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LEGEND

 Site Boundary (Approximate)



Rev	Description	By	CB	Date



260 Park Avenue, Aztec West, Almondsbury,
Bristol BS32 4SY
T: 01454 853 000 E: rpssw@rpsgroup.com

Client Gracelands Investments Limited
 c/o Richard Hayward Properties

Project Land North of Elba Crescent

Title Site Location Plan

Status	Drawn By	PM/Checked by
Final	GJ	LW

Job Ref	Scale @ A3	Date Created
JER9273	Not to Scale	11/21

RPS Drawing / Figure Number	Rev
JER9273.SLP.01	A

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APPENDICES

Appendix A

General Notes

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PHASE 1 - ENVIRONMENTAL RISK ASSESSMENT / DESK STUDY ENVIRONMENTAL REVIEW

1. A "desk study" means that no site visits have been carried out as any part thereof, unless otherwise

GENERAL NOTES

specified.

2. This report provides available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client.
3. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.
4. The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
5. No sampling or analysis has been undertaken in relation to this desk study.
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Appendix B

Part 2A (The Contaminated Land Regime)

Under Section 57 of the Environmental Act 1995, Part 2A was inserted into the Environmental Protection Act

CONTAMINATED LAND DEFINITION

1990 to include provisions for the management of contaminated land.

Subsequent regulations were first implemented in England in April 2000, Scotland in July 2000 and Wales in July 2001¹, providing a definition of ‘contaminated land’ and setting out the nature of liabilities that can be incurred by owners of contaminated land and groundwater.

According to the Act, contaminated land is defined as ‘any land which appears to the local authority in whose area the land is situated to be in such a condition, by reason of substances in, on or under the land that:

1. *significant harm* is being caused or there is a *significant possibility* of such harm being caused; or
2. *significant pollution* of water environment² is being caused or there is a significant possibility of such pollution being caused³

The guidance on determining whether a particular possibility is significant is based on the principles of risk assessment and in particular on considerations of the magnitude or consequences of the different types of significant harm caused. The term ‘possibility of significant harm being caused’ should be taken, as referring to a measure of the probability, or frequency, of the occurrence of circumstances that could lead to significant harm being caused.

The following situations are defined where harm is to be regarded as significant:

3. Chronic or acute toxic effect, serious injury or death to humans
4. Irreversible or other adverse harm to the ecological system
5. Substantial damage to, or failure of, buildings
6. Disease, other physical damage or death of livestock or crops
7. The pollution of water environment⁴.

With regard to radioactivity, contaminated land is defined as ‘any land which appears to be in such a condition, by reason of substances in, on or under the land that harm is being caused, or there is a *significant possibility of such harm being caused*⁵’.

The Risk Assessment Methodology

Risk assessment is the process of collating known information on a hazard or set of hazards in order to estimate actual or potential risks to receptors. The receptor may be humans, a water resource, a sensitive local ecosystem or future construction materials. Receptors can be connected with the hazard via one or several exposure pathways (e.g. the pathway of direct contact). Risks are generally managed by isolating or

¹ In England by The Contaminated Land (England) Regulations 2000, updated by The Contaminated Land (England) (Amendment) Regulations 2012; in Scotland by The Contaminated Land (Scotland) Regulations 2000, updated by the Contaminated Land (Scotland) Regulations 2005; and in Wales by The Contaminated Land (Wales) Regulations 2001, updated by the Contaminated Land (Wales) Regulations 2006.

² In Scotland the term “controlled water” has been updated to “water environment” under the Contaminated Land (Scotland) Regulations 2005 in line with the Water Environment and Water Services (Scotland) Act 2003.

³ The definition was amended in 2012 by implementation of the Water Act 2003.

⁴ Groundwater in this context does not include waters within underground strata but above the saturated zone.

⁵ The Radioactive Contaminated Land (Modification of Enactments) (England) Regulations 2006 and Contaminated Land (Wales) Regulations 2006.

removing the hazard, isolating the receptor, or by intercepting the exposure pathway. Without the three essential components of a source (hazard), pathway and receptor, there can be no risk. Thus, the mere presence of a hazard at a site does not mean that there will necessarily be attendant risks.

The Risk Assessment

By considering where a viable pathway exists which connects a source with a receptor, this assessment will identify where pollutant linkages may exist. A pollutant linkage is the term used by the DEFRA in their standard procedure on risk assessment. If there is no pollutant linkage, then there is no risk. Therefore, only where a viable pollutant linkage is established does this assessment go on to consider the level of risk. Risk should be based on a consideration of both:

- The likelihood of an event (probability) - takes into account both the presence of the hazard and receptor and the integrity of the pathway.
- The severity of the potential consequence - takes into account both the potential severity of the hazard and the sensitivity of the receptor.

For further information please see the Contaminated Land section on the DEFRA website (www.defra.gov.uk).

Appendix C

Landmark Envirocheck Data



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

285967663_1_1

Customer Reference:

JER9273

National Grid Reference:

269920, 193070

Slice:

A

Site Area (Ha):

4.98

Search Buffer (m):

1000

Site Details:

1, Elba Crescent
Crymlyn Burrows
SWANSEA
SA1 8QQ

Client Details:

Mr G Chapman
RPS Consulting Services Ltd
260 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4SY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	32
Hazardous Substances	37
Geological	39
Industrial Land Use	41
Sensitive Land Use	44
Data Currency	45
Data Suppliers	49
Useful Contacts	50

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.

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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 2			13	39
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 15		12	5	1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 19		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 19		Yes		
Pollution Incidents to Controlled Waters	pg 19		3	2	2
Prosecutions Relating to Authorised Processes	pg 20		1	1	
Registered Radioactive Substances					
River Quality	pg 21			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 21		2		
Water Abstractions	pg 21				(*5)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 22	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 23		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 23		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 23		27	7	41

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 32				1
Historical Landfill Sites	pg 32			1	1
Integrated Pollution Control Registered Waste Sites	pg 32		1		
Licensed Waste Management Facilities (Landfill Boundaries)	pg 32				1
Licensed Waste Management Facilities (Locations)	pg 33		5	3	
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 35				2
Registered Waste Transfer Sites	pg 36		1		
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 37		1	3	1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 37				1
Planning Hazardous Substance Consents	pg 37		2	3	
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 39	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 39			1	
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 39	Yes	n/a	n/a	n/a
Mining Instability	pg 39	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				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 39		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas	pg 40	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 41	1	12	8	1
Fuel Station Entries	pg 43		1		
Gas Pipelines					
Underground Electrical Cables					
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	pg 44				1
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites	pg 44			1	
Sites of Special Scientific Interest	pg 44		1	1	
Special Areas of Conservation	pg 44			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	A13SE (E)	0	1	270000 193075
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	0	1	269924 193075
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	2	1	269924 193200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	25	1	269850 193200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	33	1	270000 193200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	152	1	269950 193350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	158	1	269850 192800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	163	1	270200 193250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	254	1	269700 193400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	257	1	269500 192950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	287	1	269650 192700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	287	1	270350 193250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	306	1	270000 193500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	317	1	269800 192650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	325	1	270450 193075
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	337	1	269500 193350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	351	1	269700 193500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	352	1	269924 193550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	358	1	269400 193050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	361	1	270000 192650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	370	1	269500 192700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	394	1	270150 193550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	406	1	269900 193600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	417	1	269400 192750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	477	1	270600 193100
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Emergency O'Flow A Crymlyn Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BE0010501 Permit Version: 1 Effective Date: 8th October 1969 Issued Date: 8th October 1969 Revocation Date: 30th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Sea Outside of Controlled Limit Environment: Receiving Water: Sea Outfall Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12SE (W)	265	2	269500 192900
2	Discharge Consents Operator: Vinci Construction Uk Limited Property Type: General Construction Work Location: Swansea Bay Innovation Campus, Site Office, Elba Crescent, Crymlyn Burrows, Swansea, Sa1 8qq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmb3897tq Permit Version: 2 Effective Date: 9th May 2014 Issued Date: 9th May 2014 Revocation Date: 17th September 2014 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: Groundwater Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	293	2	270238 192777
2	Discharge Consents Operator: Vinci Construction Uk Limited Property Type: General Construction Work Location: Swansea Bay Innovation Campus, Site Office, Elba Crescent, Crymlyn Burrows, Swansea, Sa1 8qq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmb3897tq Permit Version: 1 Effective Date: 2nd December 2013 Issued Date: 11th September 2013 Revocation Date: 13th May 2014 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: Groundwater Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	293	2	270238 192777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Celtic Technologies Limited Property Type: Civil Engineering Location: Groundwater Remediation Treatment, System Serving Gower Chemicals, Limited, Crumlin Burrows, Swansea, Sa1 8pt Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprzb3493hk Permit Version: 1 Effective Date: 5th September 2014 Issued Date: 5th September 2014 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Into Land Environment: Receiving Water: Groundwater Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (W)	318	2	269461 193136
3	Discharge Consents Operator: Celtic Technologies Limited Property Type: Civil Engineering Location: Groundwater Remediation Treatment, System Serving Gower Chemicals, Limited, Crumlin Burrows, Swansea, Sa1 8pt Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Zb3493hk Permit Version: 1 Effective Date: 5th September 2014 Issued Date: 5th September 2014 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A12NE (W)	318	2	269461 193136
4	Discharge Consents Operator: Vinci Construction Uk Limited Property Type: General Construction Work Location: Swansea Bay Innovation Campus, Site Office, Elba Crescent, Crymlyn Burrows, Swansea, Sa1 8qq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmb3897tq Permit Version: 2 Effective Date: 9th May 2014 Issued Date: 9th May 2014 Revocation Date: 17th September 2014 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: Groundwater Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	346	2	269961 192657
4	Discharge Consents Operator: Vinci Construction Uk Limited Property Type: General Construction Work Location: Swansea Bay Innovation Campus, Site Office, Elba Crescent, Crymlyn Burrows, Swansea, Sa1 8qq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmb3897tq Permit Version: 1 Effective Date: 2nd December 2013 Issued Date: 11th September 2013 Revocation Date: 13th May 2014 Discharge Type: Trade Discharges - Site Drainage Discharge: Into Land Environment: Receiving Water: Groundwater Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	346	2	269961 192657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Baldwins Crescent Sps, . Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Be0010501 Permit Version: 2 Effective Date: 31st March 2010 Issued Date: 3rd February 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Controlled Sea Environment: Receiving Water: Sea Outfall Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	383	2	269537 192653
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Baldwins Crescent Sps, . Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Be0010501 Permit Version: 2 Effective Date: 31st March 2010 Issued Date: 3rd February 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Controlled Sea Environment: Receiving Water: Sea Outfall Status: Effective Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	383	2	269537 192653
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Temporary Increased Dis. From, Netah Port Talbot, Wales, Uk Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Be0010503 Permit Version: 1 Effective Date: 8th October 1969 Issued Date: 8th October 1969 Revocation Date: 20th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Sea Outfall Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NW (S)	389	2	269900 192600
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Temporary Increased Dis. From, Netah Port Talbot, Wales, Uk Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: BE0010502 Permit Version: 1 Effective Date: 8th October 1969 Issued Date: 8th October 1969 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Sea Outside of Controlled Limit Environment: Receiving Water: Sea Outfall Status: Effective Positional Accuracy: Located by supplier to within 100m	A8NW (S)	389	2	269900 192600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Temporary Increased Dis. From, Netah Port Talbot, Wales, Uk Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Be0010502 Permit Version: 1 Effective Date: 8th October 1969 Issued Date: 8th October 1969 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Sea Outside of Controlled Limit Environment: Receiving Water: Sea Outfall Status: Effective Positional Accuracy: Located by supplier to within 100m	A8NW (S)	389	2	269900 192600
7	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Production And Distribution Of Oil Location: Project Jonah Transit Site, Former Bp, Off Fabian Way, Swansea, Sa1 8qe Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Eprep3827xv Permit Version: 1 Effective Date: 3rd December 2010 Issued Date: 3rd December 2010 Revocation Date: 22nd June 2011 Discharge Type: Trade Discharge - Process Water Discharge: Into Land Environment: Receiving Water: Groundwater Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	471	2	269299 192853
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Swansea Stw Fabian Way Swansea, Fabian Way, Swansea, Wales Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Bp0236601 Permit Version: 11 Effective Date: 20th February 2014 Issued Date: 20th February 2014 Revocation Date: 31st March 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Saline Estuary Environment: Receiving Water: Swansea Bay (Estuarial Wtrs) Status: Varied under EPR 2010 Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	795	2	268963 192914
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Swansea Stw Fabian Way Swansea, Fabian Way, Swansea, Wales Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Bp0236601 Permit Version: 12 Effective Date: 1st April 2015 Issued Date: 20th February 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Saline Estuary Environment: Receiving Water: Swansea Bay (Estuarial Wtrs) Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	795	2	268963 192914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Swansea Stw Fabian Way Swansea, Fabian Way, Swansea, Wales Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Bp0236601 Permit Version: 7 Effective Date: 30th April 2004 Issued Date: 30th April 2004 Revocation Date: 17th November 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Saline Estuary Environment: Receiving Water: Swansea Bay (Estuarial Wtrs) Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually positioned to the address or location	A11SE (W)	829	2	268927 192946
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Swansea Stw Fabian Way Swansea, Fabian Way, Swansea, Wales Authority: Natural Resources Wales Catchment Area: Boundary Of HA 59 & HA 60 Reference: Bp0236601 Permit Version: 6 Effective Date: 28th November 2003 Issued Date: 28th November 2003 Revocation Date: 29th April 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Saline Estuary Environment: Receiving Water: Swansea Bay (Estuarial Wtrs) Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually positioned to the address or location	A11SE (W)	829	2	268927 192946
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	890	2	268873 192859
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845
9	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	916	2	268848 192845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	940	2	268826 192832
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	964	2	268804 192818
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hydrock Contracting Limited Property Type: Not Supplied Location: Groundwater Remediation At Queens, Queens Dock, Swansea Port Area, Swansea, Wales, Sa1 8qp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Lp3427gj Permit Version: 1 Effective Date: 25th March 2013 Issued Date: 25th March 2013 Revocation Date: Not Supplied Discharge Type: Groundwater - Borehole Discharge: Groundwater Environment: Receiving Water: Direct Discharge To Groundwater Via Remediation Borehole Status: Surrendered Positional Accuracy: Located by supplier to within 10m	A11SE (W)	985	2	268785 192805
11	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery & Energy, Crymlyn Burrows,, SWANSEA, West Glamorgan, SA1 8PT Authority: Natural Resources Wales Permit Reference: AP3336KC Original Permit Ref: Bjs775if Effective Date: 15th November 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	180	2	269900 193370
11	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery & Energy, Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PZ Authority: Natural Resources Wales Permit Reference: BP3030HV Original Permit Ref: Bjs775if Effective Date: 11th August 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	180	2	269900 193370
11	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery & Energy, Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PZ Authority: Natural Resources Wales Permit Reference: YP3837XZ Original Permit Ref: Bjs775if Effective Date: 19th June 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	180	2	269900 193370
12	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery & Energy, Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PZ Authority: Natural Resources Wales Permit Reference: JP3736MG Original Permit Ref: Bjs775if Effective Date: 11th January 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	182	2	269849 193361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Integrated Pollution Prevention And Control Name: Neath Port Talbot (Recycling) Ltd Location: Crymlyn Burrows Materials Recycling And Energy Centre, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8PZ Authority: Natural Resources Wales Permit Reference: JP3632LD Original Permit Ref: Bjs775if Effective Date: 7th August 2006 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	182	2	269846 193360
12	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Centre, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: TP3437SR Original Permit Ref: Bjs775if Effective Date: 2nd September 2005 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Manually positioned to the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A13NW (N)	182	2	269846 193360
12	Integrated Pollution Prevention And Control Name: Neath Port Talbot (Recycling) Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery & Energy, Crymlyn Burrows,, SWANSEA, West Glamorgan, SA1 8PT Authority: Natural Resources Wales Permit Reference: YP3231ZE Original Permit Ref: Bjs775if Effective Date: 21st March 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 5.1 A(1) (B) Activity Description: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Primary Activity: Y	A13NW (N)	183	2	269849 193362
13	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows,, NEATH, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Up3838sx Original Permit Ref: Bjs775if Effective Date: 30th January 2005 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	205	2	269556 193010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Integrated Pollution Prevention And Control Name: Crymlyn Burrows Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Bj5775if Original Permit Ref: Yp3231ze Effective Date: 1st October 2019 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 PART A (1) B) Activity Description: Not Supplied Primary Activity: Y Activity Code: 5.4 PART A (1) A) (II) Activity Description: Not Supplied Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Not Supplied Primary Activity: N	A12SE (W)	248	2	269519 193038
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Bp3539bn Original Permit Ref: Bj5775if Effective Date: 15th November 2004 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	248	2	269519 193038
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recyling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Bv5297ig Original Permit Ref: Bj5775if Effective Date: 14th August 2003 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	248	2	269519 193038
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recyling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Bu8576ih Original Permit Ref: Bj5775if Effective Date: 30th June 2003 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	248	2	269519 193038

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Zp3333bj Original Permit Ref: Bj5775if Effective Date: 10th August 2004 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	260	2	269512 193056
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Recycling Ltd Location: Crymlyn Burrows Materials Recycling And Energy Ctr, Materials Recovery And Energy, Baldwin Crescent, Crymlyn Burrows, Neath, SA1 8PZ Authority: Natural Resources Wales Permit Reference: Bv7320in Original Permit Ref: Bj5775if Effective Date: 5th September 2003 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Hazardous Waste Unless Otherwise Stated Primary Activity: Y	A12SE (W)	260	2	269512 193056
14	Integrated Pollution Prevention And Control Name: Hlc Waste Management Services Ltd Location: Materials Recovery And Energy, Neath, SA1 8PZ Authority: Environment Agency, Welsh Region Permit Reference: Bv5297 Original Permit Ref: Bj5775 Effective Date: 14th August 2003 Status: Superseded By Variation Application Type: PPC MINOR VARIATION App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Municipal Waste Greater Than 3T/Hr Primary Activity: Not Supplied	A12SE (W)	260	3	269512 193056
14	Integrated Pollution Prevention And Control Name: Hlc Waste Management Services Ltd Location: Materials Recovery And Energy, Neath, SA1 8PZ Authority: Environment Agency, Welsh Region Permit Reference: Bu8576 Original Permit Ref: Bj5775 Effective Date: 30th June 2003 Status: Superseded By Variation Application Type: PPC MINOR VARIATION App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Municipal Waste Greater Than 3T/Hr Primary Activity: Not Supplied	A12SE (W)	260	3	269512 193056
14	Integrated Pollution Prevention And Control Name: Hlc Waste Management Services Ltd Location: Materials Recovery And Energy, Neath, SA1 8PZ Authority: Environment Agency, Welsh Region Permit Reference: Bj5775 Original Permit Ref: Bj5775 Effective Date: 9th May 2002 Status: Superseded By Variation Application Type: PPC APPLICATION App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (D) Activity Description: Waste Incineration; Municipal Waste Greater Than 3T/Hr Primary Activity: Not Supplied	A12SE (W)	260	3	269512 193056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Integrated Pollution Prevention And Control Name: Tir John Landfill Location: Wern Fawr Road, Off Fabian Way, Port Tenant, Swansea, West Glamorgan, SA1 8ln Authority: Natural Resources Wales Permit Reference: VP3935AT Original Permit Ref: Lp3635ey Effective Date: 31st March 2020 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: Y	A17SW (NW)	865	2	268987 193509
16	Local Authority Pollution Prevention and Controls Name: Visteon Automotive Systems Location: Fabian Way, Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8QJ Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/49 Dated: 16th November 1993 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorisation has varied Positional Accuracy: Manually positioned to the address or location	A13NE (E)	39	4	270104 193148
	Nearest Surface Water Feature	A13SE (SE)	41	-	270100 192998
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Channel Next To Grass Verge , In Front Of Celtic Mowers Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Unknown; Unnamed Ditch Incident Date: 23rd July 1998 Incident Reference: 36439 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	38	3	270150 193100
18	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Jet Garage, Fabian Way, SWANSEA Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Mechanical Failure Incident Date: 26th June 1995 Incident Reference: 24572 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	88	3	270200 193000
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fabian Way, Swansea Opp, Fords Factory Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 17th February 1995 Incident Reference: 22687 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	181	3	270300 193000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Opposite Blazers Caravans, Ewloe, Crymlyn Burrows, SWANSEA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Mechanical/Electrical Plant Failure Incident Date: 10th October 1996 Incident Reference: 30444 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	281	3	269500 193200
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 9th February 1995 Incident Reference: 23086 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	307	3	270001 193501
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tank Farm Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th June 1996 Incident Reference: 28924 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	774	3	269000 192800
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fuel Pumphouse, Bp Transit, Site Fabian Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 1st November 1995 Incident Reference: 26522 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	909	3	271000 193300
24	Prosecutions Relating to Authorised Processes Location: Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PT Prosecution Text: ENDS Report 281 (June 1998), Two employees of Neath Council died (overcome by CFC fumes) as result of liquid CFC discharge into sewer. Tanker valve left open and 3.1 tonnes entered a drain and then a sewer. Those who died were working in the sewer. Prosecution Act: EPA90 s6(1) Hearing Date: 15th June 1998 Verdict: Guilty Fine: 100000 Costs: 33000 Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	112	3	269900 193300
25	Prosecutions Relating to Authorised Processes Location: Material Recovery Centre, Crymlyn Burrows, Swansea Prosecution Text: Failing to operate a composting unit within the guidelines of the permit conditions Prosecution Act: Epa90 S33(6) Hearing Date: 11th March 2005 Verdict: Guilty Fine: 4000 Costs: 4000 Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	263	3	269510 193059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Port Tennant Canal GQA Grade: River Quality E Reach: Jersey Marine Br.-Tennant Pond Estimated Distance (km): 2.8 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A18SW (N)	251	3	269786 193430
26	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 16th May 2012 Incident Reference: 991224 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Other Pollutant	A13NW (NW)	18	2	269790 193180
27	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 18th July 2013 Incident Reference: 1135463 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and EffectsOther Odour	A13SE (E)	22	2	270090 193017
	Water Abstractions Operator: Hawk Plant Hire Limited Licence Number: Wa/059/0001/001 Permit Version: 1 Location: Pond No.29, Lower End Of Freemans Bund Stream, Neath Authority: Environment Agency, Welsh Region Abstraction: Environmental: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 29 September Authorised End: 25 October Permit Start Date: 29th September 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1406	3	269973 194604
	Water Abstractions Operator: St Mowden Properties Plc Licence Number: 22/59/5/0007 Permit Version: 102 Location: Freemans Bund Authority: Natural Resources Wales Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th July 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1434	2	269880 194630
	Water Abstractions Operator: Bp Oil Llandarcy Refinery Ltd Licence Number: 22/59/5/0007 Permit Version: 101 Location: Freemans Bund Authority: Environment Agency, Welsh Region Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1434	3	269880 194630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Bp Oil Llandarcy Refinery Ltd Licence Number: 22/59/5/0007 Permit Version: 100 Location: Freemans Bund Authority: Environment Agency, Welsh Region Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Freemans Bund Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NW (N)	1434	3	269880 194630
	Water Abstractions Operator: St Mowden Properties Plc Licence Number: 22/59/5/0007 Permit Version: Not Supplied Location: Land At B P Refinery Llandarcy Authority: Natural Resources Wales Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1434	2	269880 194630
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: >10m Superficial Recharge: No Data	A13SW (S)	0	2	269924 193000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13SW (W)	0	2	269924 193075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: >90% Patchiness: Superficial Thickness: 3-10m Superficial Thickness: Medium Recharge:	A13SE (E)	0	2	270000 193075
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	2	269924 193075
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (E)	0	2	270000 193075
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (E)	0	2	270000 193075
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	2	269924 193075
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	139	2	269992 192812
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	189	2	269992 192812
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	41	5	270100 192998
29	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: Neath Primacy: 1	A13SW (SW)	42	5	269822 192938
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	42	5	269828 192939

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	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: Neath Primacy: 1	A13SW (SW)	42	5	269855 192945
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	42	5	269858 192946
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (S)	42	5	269947 192965
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	42	5	270023 192982
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	42	5	270026 192982
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	42	5	270096 192997
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	84	5	269802 192891
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (SW)	84	5	269804 192891
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SW (S)	84	5	269924 192916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (S)	85	5	269953 192921
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (S)	86	5	269972 192925
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	89	5	270051 192940
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (SE)	93	5	270116 192950
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	121	5	269871 193304
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (E)	126	5	270233 192981
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	141	5	269651 193220
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 490.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (N)	142	5	269863 193326
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13SE (E)	145	5	270258 192988

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	158	5	269677 193280
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	168	5	269617 193207
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	191	5	269626 193274
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (NW)	210	5	269577 193221
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (NW)	210	5	269577 193221
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (NW)	211	5	269597 193267
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	257	5	270150 193408
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 270.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	302	5	270209 193429
57	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1475.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tennant Canal Catchment Name: Neath Primacy: 1	A17SE (NW)	381	5	269574 193489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 330.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tennant Canal Catchment Name: Neath Primacy: 1	A18SW (N)	384	5	269777 193559
59	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 198.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tennant Canal Catchment Name: Neath Primacy: 1	A18SW (N)	403	5	269906 193598
60	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 689.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glan-y-wern Canal Catchment Name: Tawe Primacy: 1	A18SE (N)	436	5	270103 193607
61	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1927.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tennant Canal Catchment Name: Neath Primacy: 1	A18SE (N)	436	5	270103 193607
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	524	5	270472 193490
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SE (NW)	624	5	269351 193613
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	633	5	270609 193482
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	634	5	270569 193544
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	642	5	270751 193194

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SE (NW)	666	5	269294 193616
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	682	5	270667 193485
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	684	5	270669 193485
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 604.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	704	5	270820 193162
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	706	5	270813 193207
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 187.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	706	5	270813 193207
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 422.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SW (NW)	708	5	269206 193576
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17NE (NW)	718	5	269382 193758
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17NE (NW)	721	5	269383 193762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	741	5	270705 193534
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SE (NW)	756	5	269292 193737
78	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NE (E)	787	5	270858 193347
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14SE (E)	790	5	270915 193050
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	802	5	270774 193543
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (E)	808	5	270839 193446
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	813	5	270838 193458
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	813	5	270838 193458
84	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: Tawe Primacy: 1	A17SW (NW)	823	5	269086 193605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SW (NW)	831	5	269084 193616
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17NE (NW)	833	5	269517 193957
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 991.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A17NE (NW)	834	5	269445 193923
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SW (NW)	844	5	269076 193628
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	847	5	270813 193564
90	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1260.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glan-y-wern Canal Catchment Name: Tawe Primacy: 1	A17NE (NW)	851	5	269527 193971
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	881	5	270868 193542
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	883	5	270871 193542
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	888	5	270876 193543

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	904	5	270892 193547
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	908	5	270896 193548
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	910	5	270898 193549
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	912	5	270601 193900
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A15NW (E)	915	5	271018 193252
99	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	932	5	270903 193584
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SE (NE)	933	5	270904 193583
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A15NW (E)	941	5	271066 193086
102	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A20SW (NE)	994	5	270970 193592

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	BGS Recorded Landfill Sites Site Name: CEGB Tin John Power Stn Location: SWANSEA, West Glamorgan Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A17SE (NW)	634	-	269330 193607
104	Historical Landfill Sites Licence Holder: Not Supplied Location: Jersey Marine Name: Aresnic Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34829 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A17SE (NW)	420	2	269482 193456
105	Historical Landfill Sites Licence Holder: Not Supplied Location: Swansea, West Glamorgan Name: CEGB Tir John Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31178 First Input Date: 23rd November 1953 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1277 Other Ref: Not Supplied	A17SE (NW)	634	2	269330 193607
106	Integrated Pollution Control Registered Waste Sites Name: Hlc (Neath Port Talbot) Ltd Location: Former Freightliner Depot, Baldwin Crescent, Crymlyn Burrows, NEATH, SA1 8PZ Authority: Environment Agency, Welsh Region Permit Reference: BG3830 Dated: 29th November 1999 Process Type: IPC new application Description: 5.1 A (C) Incineration within the Waste Disposal Industry Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	209	3	269553 193014
107	Licensed Waste Management Facilities (Landfill Boundaries) Name: Tir John Landfill (Closed Site) Licence Number: 34011 Location: Tir John Landfill, Fabian Way, Port Tennant, Swansea, SA1 8QP Licence Holder: City And County Of Swansea Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Transferred Issued: 30th March 1985 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A17SE (NW)	643	2	269311 193600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Licensed Waste Management Facilities (Locations) Licence Number: DB3993HD Location: Trojan Electronics 2018 Limited, Trojan Electronics 2018 Limited, Kings Dock Building, Trojan Close, Crymlyn Burrows, Swansea, Neath Port Talbot, Neath Port Talbot, SA1 8QA Operator Name: Trojan Electronics 2018 Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: WEEE treatment facility Licence Status: Effective Issued: 14th February 2019 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	60	2	269832 193232
108	Licensed Waste Management Facilities (Locations) Licence Number: 900136 Location: Kings Dock, Trojan Close, Crymlyn Burrows, Swansea, SA1 8QA Operator Name: Trojan Electronics Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: WEEE treatment facility Licence Status: Issued Issued: 4th March 2015 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	60	2	269832 193232
109	Licensed Waste Management Facilities (Locations) Licence Number: 34081 Location: Crymlyn Burrows, Swansea, SA1 8PT Operator Name: Gower Chemicals Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 15th November 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 14th October 2003 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (N)	112	2	269900 193300
110	Licensed Waste Management Facilities (Locations) Licence Number: QP3398FT Location: Materials Recovery & Energy Centre, Crymlyn Burrows, Swansea, Neath Port Talbot, SA1 8PZ Operator Name: Neath Port Talbot Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: Expired Issued: 9th May 2002 Last Modified: Not Supplied Expires: 9th May 2002 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	229	2	269549 193167

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Licensed Waste Management Facilities (Locations) Licence Number: 34293 Location: Baldwins Crescent, Crymlyn Burrows, Swansea, SA1 8PZ Operator Name: Neath Port Talbot Recycling Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: To PPC Issued: 9th May 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: BJ5775IF Positional Accuracy: Located by supplier to within 10m	A12NE (W)	229	2	269549 193167
111	Licensed Waste Management Facilities (Locations) Licence Number: 900076 Location: Elba Crescent, Crymlyn Burrows, Swansea, SA1 8QQ Operator Name: Stiens Haulage Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: HCI Waste Transfer Station Licence Status: Issued Issued: 6th March 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (W)	286	2	269470 192962
111	Licensed Waste Management Facilities (Locations) Licence Number: MB3193HZ Location: Stiens Skip And Recycling Facility, Elba Crescent, Crymlyn Burrows, Swansea, Neath Port Talbot, SA1 8QQ Operator Name: Stiens Haulage Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Effective Issued: 6th March 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (W)	286	2	269470 192962
112	Licensed Waste Management Facilities (Locations) Licence Number: GP3193LE Location: Gower Chemicals Ltd, Acid Dilution Terminal, Crymlyn Burrows, Swansea, West Glamorgan, Neath Port Talbot, SA1 8PT Operator Name: Gower Chemicals Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physico-chemical Treatment Facilities Licence Status: Effective Issued: 21st January 2011 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	380	2	269400 193100
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	4	269924 193075
	Local Authority Landfill Coverage Name: City and County of Swansea - Has no landfill data to supply		252	6	269508 192925

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	Registered Landfill Sites Licence Holder: Swansea Waste Disposal Co Ltd Licence Reference: L1/21 Site Location: Tir John Landfill, Fabian Way, Port Tennant, SWANSEA, West Glamorgan, SA7 9XT Licence Easting: 269300 Licence Northing: 193800 Operator Location: Ferryboat Close, Swansea Enterprise Zone, SWANSEA, West Glamorgan, SA6 8QN Authority: Environment Agency Wales, South West Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 31st July 2000 Preceded By: L1/21 A & B Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Degradable Commercialwaste (As In Post'98 E.A.Lics & Equivalent To 22.09.02) Degradable Household Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.01) Degradable Industrial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.03) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Maximum Waste Permitted By Licence Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Prohibited Waste: Liquid Waste - Except Gulley Sucker Waste Material With Any Haz.Code (H1, H2, H3a,H3b,H4,H5,H6,H7,H8,H9,H10,H11,H12,H13,H14) Other Waste/Waste Not Otherwise Specified Powders Special Waste (As In Epa 1990:S62 Of 1996 Regs) - Except For Waste In Sealed Drums Environment Agency Animal Carcasses must give specific authorisation for this waste to be acceptedWaste requires prior approval Any Waste In Cat.2 Of Working Plan Bonded Asbestos (Solid Asbestos Materials) Bulk Loads Of Plasterboard Contaminated Soil Gulley Emptyings (Liquids/Sludge) Road Sweepings (Liquids/Sludge) Sewage Sludge Shot Blasting Grit The Following Specifically Assessed Difficult Wastes	A17NE (NW)	800	3	269300 193800
114	Registered Landfill Sites Licence Holder: Swansea D.C. City Of Licence Reference: L1/21 A & B Site Location: Tir John Tip, Crymlyn Bog, Swansea, West Glamorgan Licence Easting: 269000 Licence Northing: 193600 Operator Location: The Guildhall, SWANSEA, West Glamorgan, SA1 4PE Authority: Environment Agency Wales, South West Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st May 1987 Preceded By: Not Given Licence: Superseded By: L1/21 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Household, Baled Waste Inert Materials For Engineering Purposes Max.Waste From Fees/Charges Septic Tank/Cess Pit Contents Special Wastes (As In S17 1980) Waste N.O.S. Prohibited Waste	A17SW (NW)	894	3	269000 193600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Registered Waste Transfer Sites Licence Holder: Gower Chemicals Ltd Licence Reference: NBWD 6 Site Location: Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PT Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 15th November 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Ferric Chloride Max.Stor Prohibited Waste: Elemental Sodium/Potassium Metal In Fine Powder Form Percussive/Explosive/Similar Waste Special Wastes N.O.S. Sub'S Control. Radioactive Subs Act'60 Waste Cont. Flam.Solvent (Exc.Petrol) Waste N.O.S.	A13NW (N)	112	3	269900 193300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Control of Major Accident Hazards Sites (COMAH) Name: Shell Direct Location: Elba Crescent, Crymlyn Burrows, SWANSEA, West Glamorgan, SA1 8PR Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A12NE (W)	204	7	269575 193180
117	Control of Major Accident Hazards Sites (COMAH) Name: Ford Motor Co Location: Fabian Way, Crymlyn Burrows, Swansea, SA1 8QJ Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A14NW (NE)	280	7	270287 193330
118	Control of Major Accident Hazards Sites (COMAH) Name: Gower Chemicals Ltd Location: Acid Dilution Terminal, Crymlyn Burrows, Swansea, SA1 8PT Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A12NE (W)	351	7	269427 193176
118	Control of Major Accident Hazards Sites (COMAH) Name: Gower Chemicals Limited Location: Acid Dilution Terminal, Crymlyn Burrows, Swansea, SA1 8PT Reference: Not Supplied Type: Lower Tier Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	351	7	269427 193176
119	Control of Major Accident Hazards Sites (COMAH) Name: Jeremys Oil Distributors Limited Location: Bottled Gas, Elba Crescent, Crymlyn Burrows, SWANSEA, SA Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Manually positioned to the address or location	A12SW (W)	615	7	269150 193070
120	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Jeremys Oil Distributors Ltd.Bottled Gas Location: Bottled Gas, Elba Crescent, Crymlyn Burrows, SWANSEA, SA Status: Not Active Positional Accuracy: Manually positioned to the address or location	A12SW (W)	614	7	269150 193065
121	Planning Hazardous Substance Consents Name: Former Shell Oil Depot Location: Elba Crescent, Crymlyn Burrows, Port Talbot, SA1 Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: 04/813 Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 0 Application date: Not Supplied Decision: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	41	8	270166 193048
122	Planning Hazardous Substance Consents Name: Jeremys Oil Distribution Ltd Location: Elba Crescent, Crymlyn Burrows, NEATH, West Glamorgan, SA Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: PHS 002 Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Substance: liquefied or not Maximum Quantity: 0 Application date: Not Supplied Decision: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	245	8	269520 193031
123	Planning Hazardous Substance Consents Name: Gower Chemicals Limited Location: Crymlyn Burrows Industrial Estate, Access Road, Crymlyn, Burrows, Swansea, SA1 8pt Authority: City and County of Swansea, Planning Department Application Ref: 2015/0876 Hazardous: Part B, Highly Reactive and Explosive Substance, 2,2-Dihydroperoxypropane (>30%), where amount held is greater than or equal to 5 tonnes Substance: (>30%), where amount held is greater than or equal to 5 tonnes Maximum Quantity: 150 Application date: 22nd April 2015 Decision: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	351	9	269427 193176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Planning Hazardous Substance Consents Name: Gower Chemicals Location: Crymlyn Burrows, NEATH, Mid Glamorgan, SA1 8PT Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: 02/0461 Hazardous Substance: Combination of Dangerous Substances Maximum Quantity: 0 Application date: Not Supplied Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	359	8	269419 193181
124	Planning Hazardous Substance Consents Name: Gower Chemicals Limited Location: Crymlyn Burrows Industrial Estate Access Road, Crymlyn Burrows, Swansea, Neath Port Talbot, Sa1 8pt Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: P2015/0273 Hazardous Substance: Part B, Highly Reactive and Explosive Substance, Peracetic acid (>60%), where amount held is greater than or equal to 5 tonnes Maximum Quantity: 150 Application date: 18th April 2015 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A12NE (W)	420	8	269363 193224

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13SW (W)	0	1	269924 193075
125	BGS Recorded Mineral Sites Site Name: Halfway House Sand Pit Location: Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156440 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Blown Sand Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	352	1	269663 193491
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (W)	0	10	269924 193075
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (W)	0	-	269924 193075
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	121	1	269872 193306
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	144	1	270000 193335
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A18SW (N)	250	1	269805 193442
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	269939 193009
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	270000 193023

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	2	1	269751 193018
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	121	1	269872 193306
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	144	1	270000 193335
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	177	1	270276 192953
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	196	1	270052 193368
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A18SW (N)	250	1	269805 193442
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	270000 193075
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	269998 193075
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	269924 193075
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	269998 193075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	Contemporary Trade Directory Entries Name: Swansea Bay Commercials Location: Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	0	-	269787 192990
127	Contemporary Trade Directory Entries Name: D J Davies Fuels Location: Old Shell Terminal, Elba Crescent, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	19	-	269922 192983
127	Contemporary Trade Directory Entries Name: D J Davies Fuels Location: Unit 1 Shell Oil Terminal, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	19	-	269922 192983
128	Contemporary Trade Directory Entries Name: Celtic Mowers Ltd Location: Fabian Way, Crymlyn Burrows, Swansea, SA1 8QB Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	50	-	270171 193027
129	Contemporary Trade Directory Entries Name: Swansea Coach Works S E Ltd Location: Fabian Way, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QA Classification: Commercial Vehicle Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	61	-	269839 193235
130	Contemporary Trade Directory Entries Name: Unit Superheater Engineering Ltd Location: Elba Business Park, Baldwins Crescent, Crymlyn Burrows, Swansea, SA1 8QE Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	64	-	269721 193035
130	Contemporary Trade Directory Entries Name: Unit Birwelco Location: Unit House, Elba Business Park, Baldwins Crescent, Crymlyn Burrows, Swansea, SA1 8QE Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	81	-	269716 193060
130	Contemporary Trade Directory Entries Name: Unit Birwelco Location: Unit House, Elbar Business Park, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QE Classification: Engineers - General Status: Active Positional Accuracy: Manually positioned to the address or location	A13SW (W)	81	-	269716 193060
130	Contemporary Trade Directory Entries Name: Stitch In Style Location: Unit House, Elba Business Park, Baldwins Crescent, Crymlyn Burrows, Swansea, SA1 8QE Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	81	-	269716 193060
131	Contemporary Trade Directory Entries Name: Corner Park Garage Location: Fabian Way, Crymlyn Burrows, SWANSEA, SA1 8QB Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	98	-	270223 193043
131	Contemporary Trade Directory Entries Name: Llandarcy Filling Station Location: Llandarcy Filling Station, Fabian Way, Crymlyn Burrows, Swansea, SA1 8QB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	136	-	270260 193062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	Contemporary Trade Directory Entries Name: First Gb Logistics Location: Unit 1 Main Studio Building, Fabian Way, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QB Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	143	-	270217 193183
133	Contemporary Trade Directory Entries Name: Blazers Caravan Co Ltd Location: Elba Crescent, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Caravan Dealers & Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	244	-	269513 192992
133	Contemporary Trade Directory Entries Name: C C Car Sales & Repairs Location: Palm Court, Fabian Way, Crymlyn Burrows, Swansea, SA1 8QB Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	266	-	269490 192973
133	Contemporary Trade Directory Entries Name: Rover Centre The Location: Elba Cres, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SE (W)	266	-	269490 192972
133	Contemporary Trade Directory Entries Name: Bresnans Location: Pavilion Garage, Elba Crescent, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QQ Classification: Fuel Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	284	-	269472 192967
133	Contemporary Trade Directory Entries Name: E N Bater & Sons Location: Baldwins Crescent, Crymlyn Burrows, Swansea, SA1 8QE Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	288	-	269468 192976
134	Contemporary Trade Directory Entries Name: A T Morgan & Son Location: Unit 1, Shell Oil Terminal, Elba Crescent, Crymlyn Burrows, Swansea, SA1 8QQ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	268	-	269510 193167
135	Contemporary Trade Directory Entries Name: Gower Chemicals Ltd Location: Crymlyn Burrows, Swansea, SA1 8PT Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	351	-	269427 193176
136	Contemporary Trade Directory Entries Name: Surface Industries Location: Bay Studios, Fabian Way, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8QJ Classification: Powder Coatings Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	391	-	270467 193257
137	Contemporary Trade Directory Entries Name: Lloyds British Testing Location: Chain Works, Fabian Way, Crymlyn Burrows, Swansea, West Glamorgan, SA1 8PX Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	410	-	269364 193083
138	Contemporary Trade Directory Entries Name: Four Counties Location: Queens Buildings, Fabian Way, Crymlyn Burrows, Swansea, SA1 8QB Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	616	-	269149 193074

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Fuel Station Entries Name: Llandarcy Filling Station Location: Fabian Way , Llandarcy , Swansea, Neath Port Talbot, SA1 8QB Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A13SE (E)	135	-	270260 193044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	National Nature Reserves Name: Crymlyn Bog And Pant Y Sais Multiple Areas: Y Total Area (m2): 1308383.06 Source: Natural Resources Wales Reference: 45 Designation Date: 27th September 1991	A18SE (N)	580	2	270174 193741
141	Ramsar Sites Name: Crymlyn Bog Multiple Areas: Y Total Area (m2): 2675566.42 Source: Natural Resources Wales Reference: UK14006 Designation Date: 8th June 1993	A18SW (N)	380	2	269808 193578
142	Sites of Special Scientific Interest Name: Crymlyn Burrows Multiple Areas: N Total Area (m2): 2345150.8 Source: Natural Resources Wales Reference: 109233wdc Designation Details: Biological Designation Date: 5th August 1987 Date Type: Notified	A13SE (E)	166	2	270265 192956
143	Sites of Special Scientific Interest Name: Cors Crymlyn / Crymlyn Bog Multiple Areas: Y Total Area (m2): 2809777.13 Source: Natural Resources Wales Reference: 47433wwp Designation Details: Biological Designation Date: 1st January 1975 Date Type: Notified	A18SW (N)	380	2	269808 193578
144	Special Areas of Conservation Name: Crymlyn Bog / Cors Crymlyn Multiple Areas: Y Total Area (m2): 2997434.94 Source: Natural Resources Wales Reference: Uk0012885 Status: Designated	A18SW (N)	380	2	269808 193578

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Natural Resources Wales Neath Port Talbot County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department	June 2020 October 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 July 2021	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	January 2021 July 2021	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 June 2014 March 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 June 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 June 2014 March 2015	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	March 2021	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	January 2021 July 2021	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	July 2021 July 2021	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	July 2021 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2017	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2021	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2019	Quarterly
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 Natural Resources Wales	July 2021 July 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - South West Area	April 2021 July 2021	Quarterly Quarterly
Local Authority Landfill Coverage City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	February 2003 February 2003	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	October 2018 October 2018	
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	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	January 2016 October 2015	Variable Variable
Planning Hazardous Substance Consents City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	January 2016 October 2015	Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	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	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

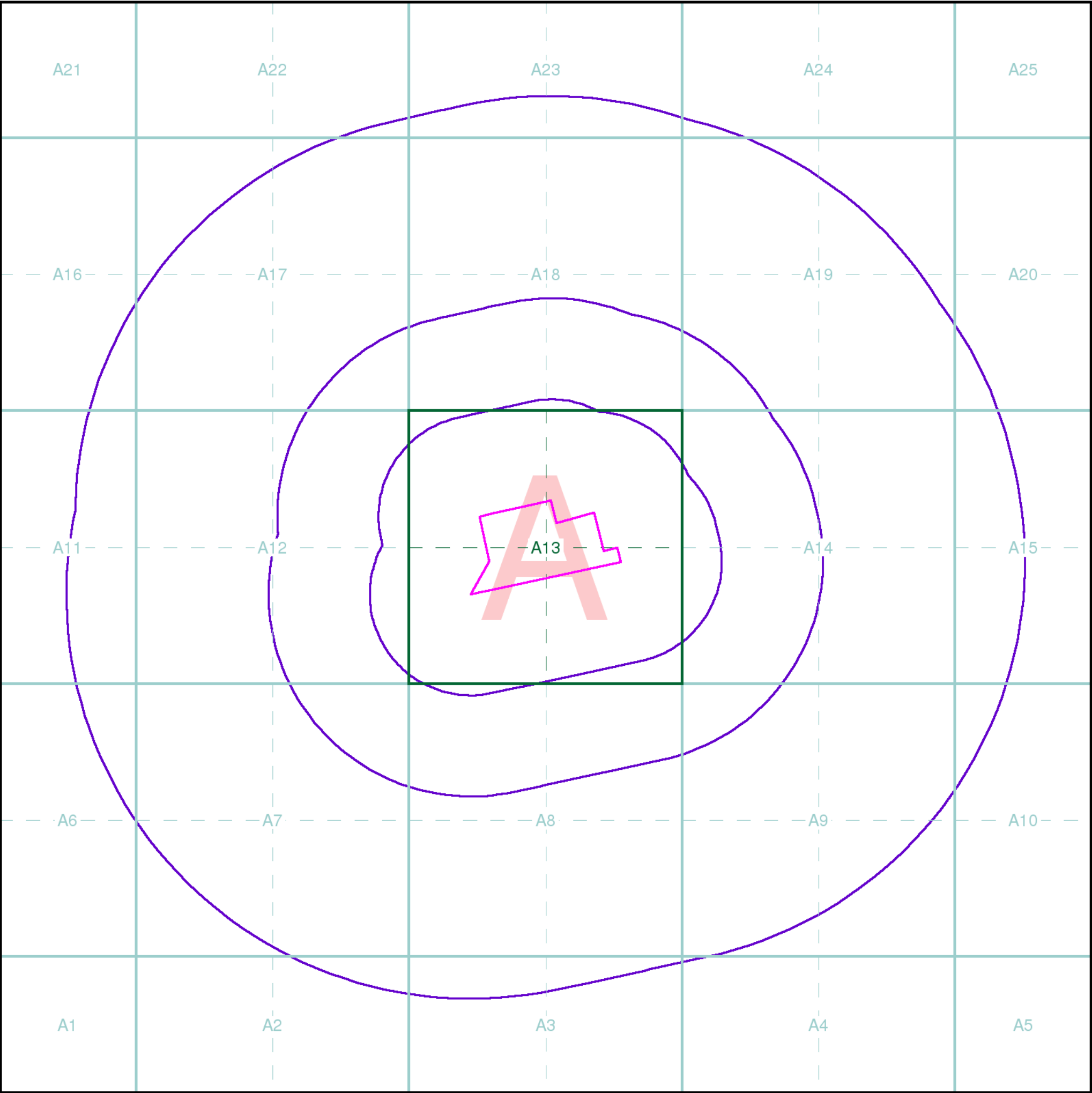
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2021	Quarterly
Gas Pipelines National Grid	May 2021	Annually
Underground Electrical Cables National Grid	May 2021	Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt City and County of Swansea Neath Port Talbot County Borough Council - Planning Services	October 2020 October 2020	Quarterly Quarterly
Areas of Unadopted Green Belt City and County of Swansea Neath Port Talbot County Borough Council - Planning Services	October 2020 October 2020	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves City and County of Swansea Neath Port Talbot County Borough Council	August 2018 August 2018	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	July 2019	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 July 2019	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	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	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	City and County of Swansea - Environmental Health Department The Guildhall, Swansea, West Glamorgan, SA1 4PE	Telephone: 01792 636000 extn 5651 Fax: 01792 635719
7	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	Neath Port Talbot County Borough Council - Planning Department Port Talbot Civic Centre, Port Talbot, SA13 1PJ	Telephone: 01639 763333 Fax: 01639 763444 Website: www.neath-porttalbot.gov.uk
9	City and County of Swansea - Planning Department The Guildhall, Swansea, West Glamorgan, SA1 4PE	Telephone: 01792 636000 Fax: 01792 635709
10	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
11	Neath Port Talbot County Borough Council Civic Centre, Port Talbot, West Glamorgan, SA13 1PJ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.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.



Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr G Chapman, RPS Consulting Services Ltd, 260 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4SY

Order Details

Order Number: 285967663_1_1
Customer Ref: JER9273
National Grid Reference: 269920, 193080
Site Area (Ha): 4.98
Search Buffer (m): 1000

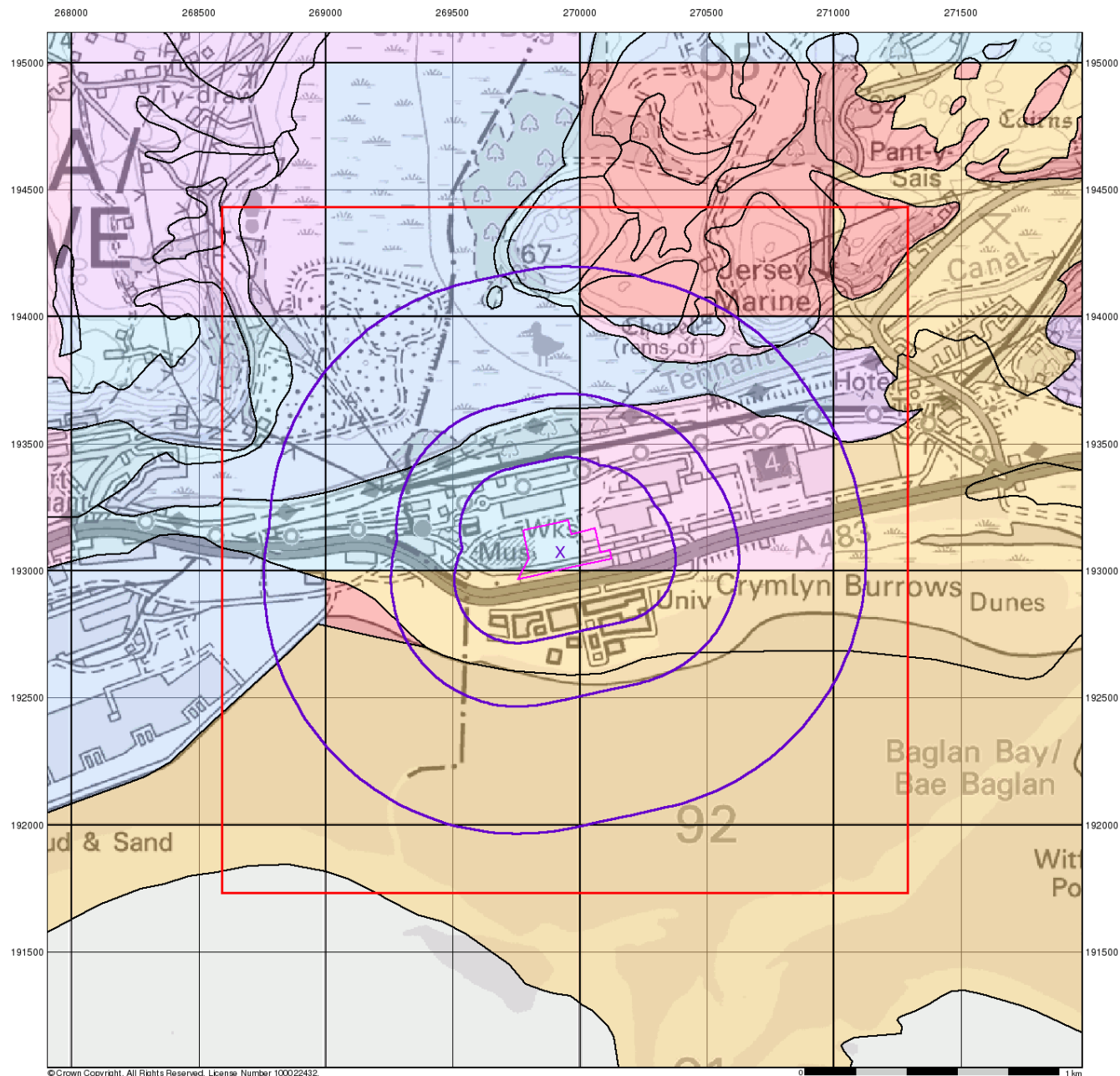
Site Details

1, Elba Crescent, Crymlyn Burrows, SWANSEA, SA1 8QQ

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<http://www.landmarkinfo.co.uk/Terms/Show/515>



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

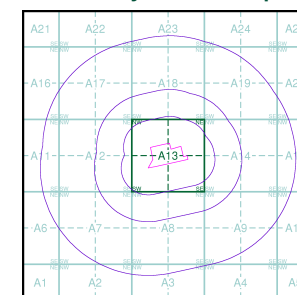
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

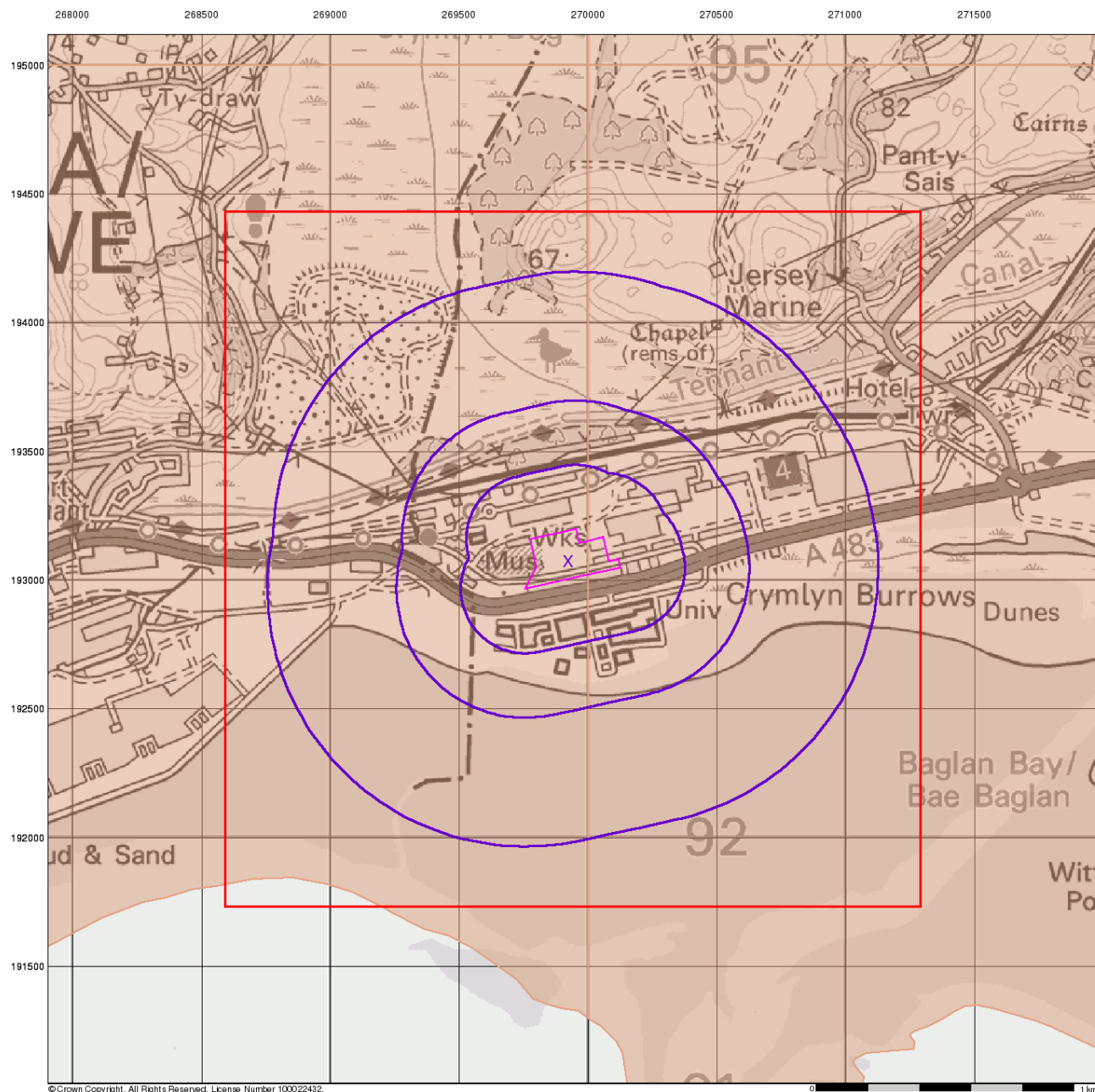
Order Number: 285967663_1_1
 Customer Ref: JER9273
 National Grid Reference: 269920, 193070
 Slice: A
 Site Area (Ha): 4.98
 Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

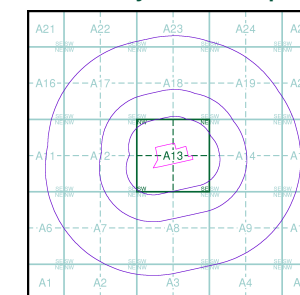
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

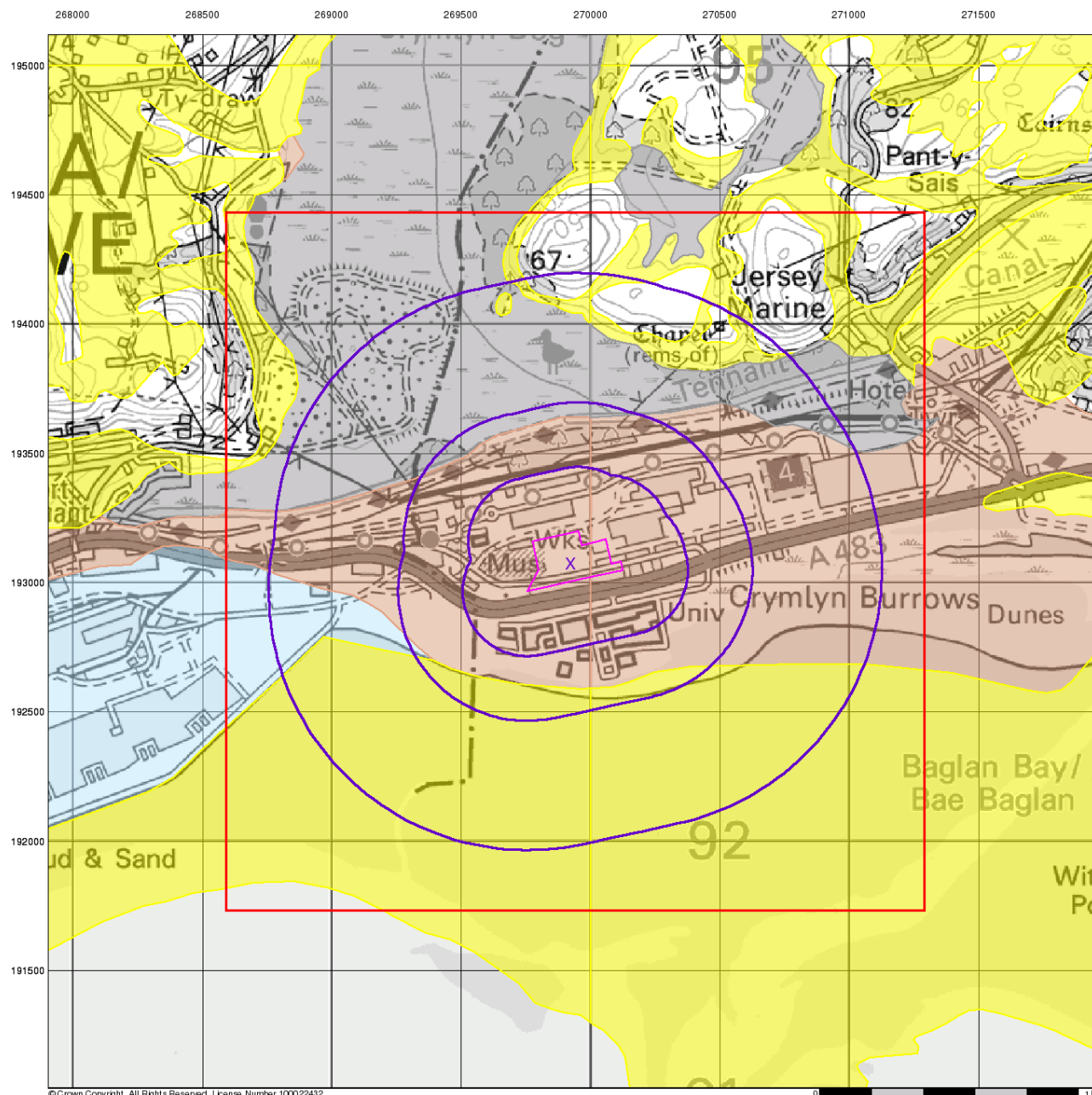
Order Number: 285967663_1_1
 Customer Ref: JER9273
 National Grid Reference: 269920, 193070
 Slice: A
 Site Area (Ha): 4.98
 Search Buffer (m): 1000

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0 1 km



Superficial Aquifer Designation

General

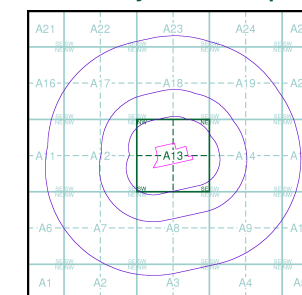
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

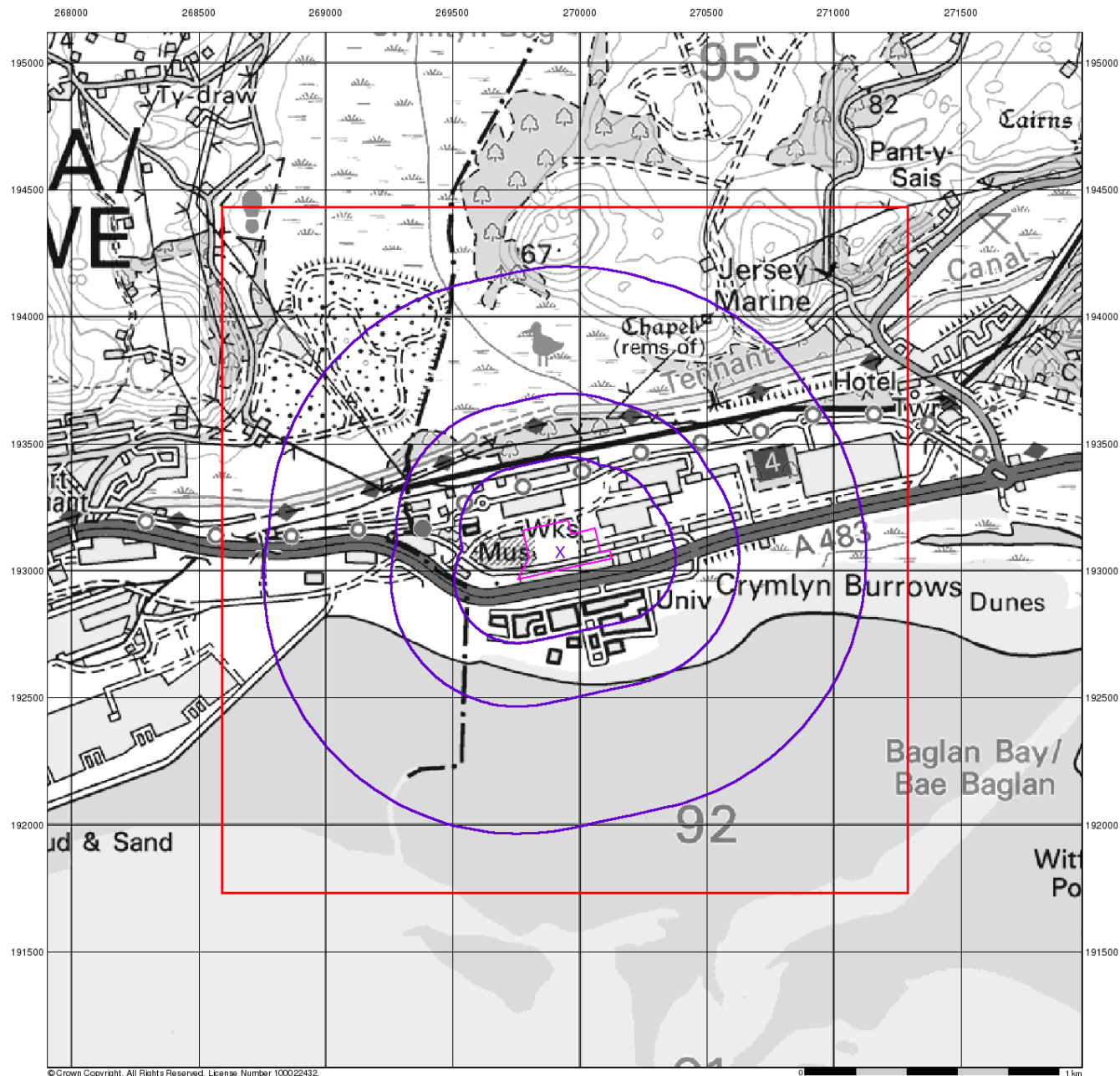
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 Slice: A
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 Search Buffer (m): 1000

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0 1 km



Source Protection Zones

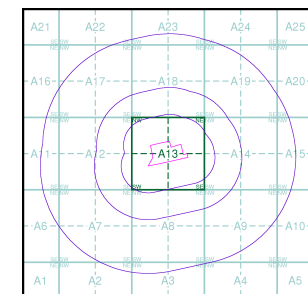
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

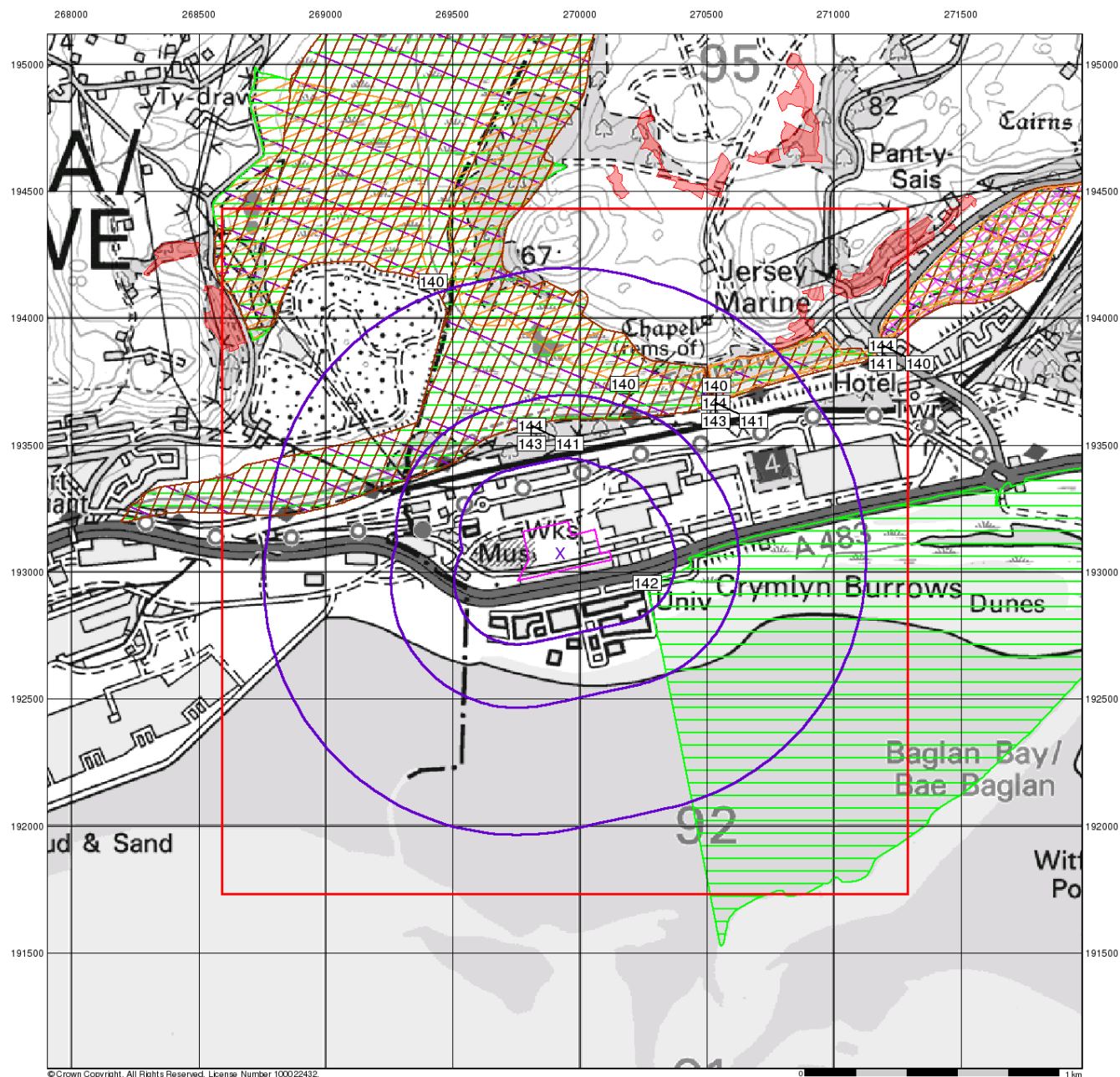
Order Number: 285967663_1_1
 Customer Ref: JER9273
 National Grid Reference: 269920, 193070
 Slice: A
 Site Area (Ha): 4.98
 Search Buffer (m): 1000

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Sensitive Land Uses

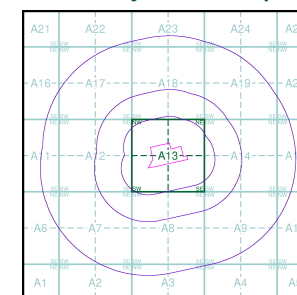
General

- ◇ Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- ▭ Slice 8 Map ID

Sensitive Land Uses

- | | |
|--|---|
| ■ Ancient Woodland | N National Park |
| ▭ Area of Adopted Green Belt | ▭ Nitrate Sensitive Area |
| ▭ Area of Unadopted Green Belt | ▭ Nitrate Vulnerable Zone |
| ▭ Area of Outstanding Natural Beauty | ▭ Ramsar Site |
| ▭ Environmentally Sensitive Area | ▭ Site of Special Scientific Interest |
| ▭ Forest Park | ▭ Special Area of Conservation |
| ▭ Local Nature Reserve | ▭ Special Protection Area |
| ▭ Marine Nature Reserve | ▭ World Heritage Sites |
| ▭ National Nature Reserve | |

Site Sensitivity Context Map - Slice A



Order Details

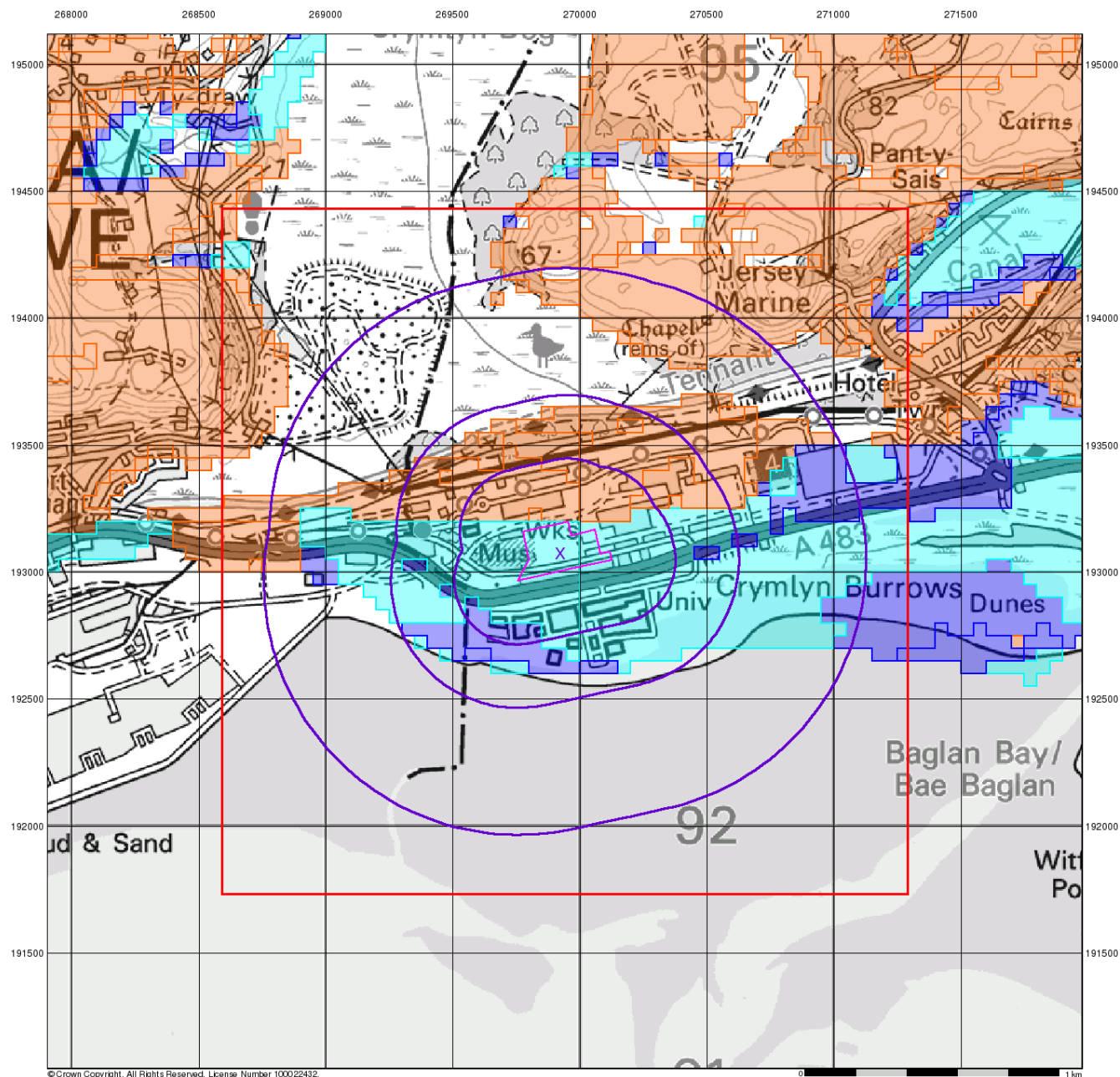
Order Number: 285967663_1_1
 Customer Ref: JER9273
 National Grid Reference: 269920, 193070
 Slice: A
 Site Area (Ha): 4.98
 Search Buffer (m): 1000

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0 1 km



BGS Flood GFS Data

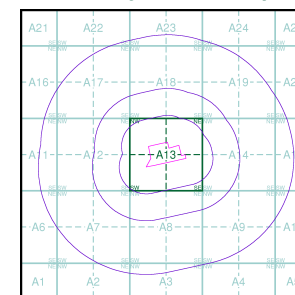
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 285967663_1_1
 Customer Ref: JER9273
 National Grid Reference: 269920, 193070
 Slice: A
 Site Area (Ha): 4.98
 Search Buffer (m): 1000

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General

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

Agency and Hydrological

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

Waste

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

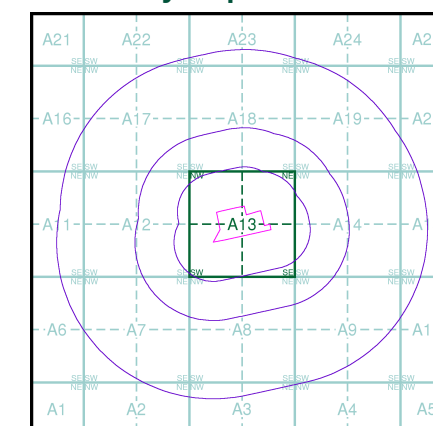
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

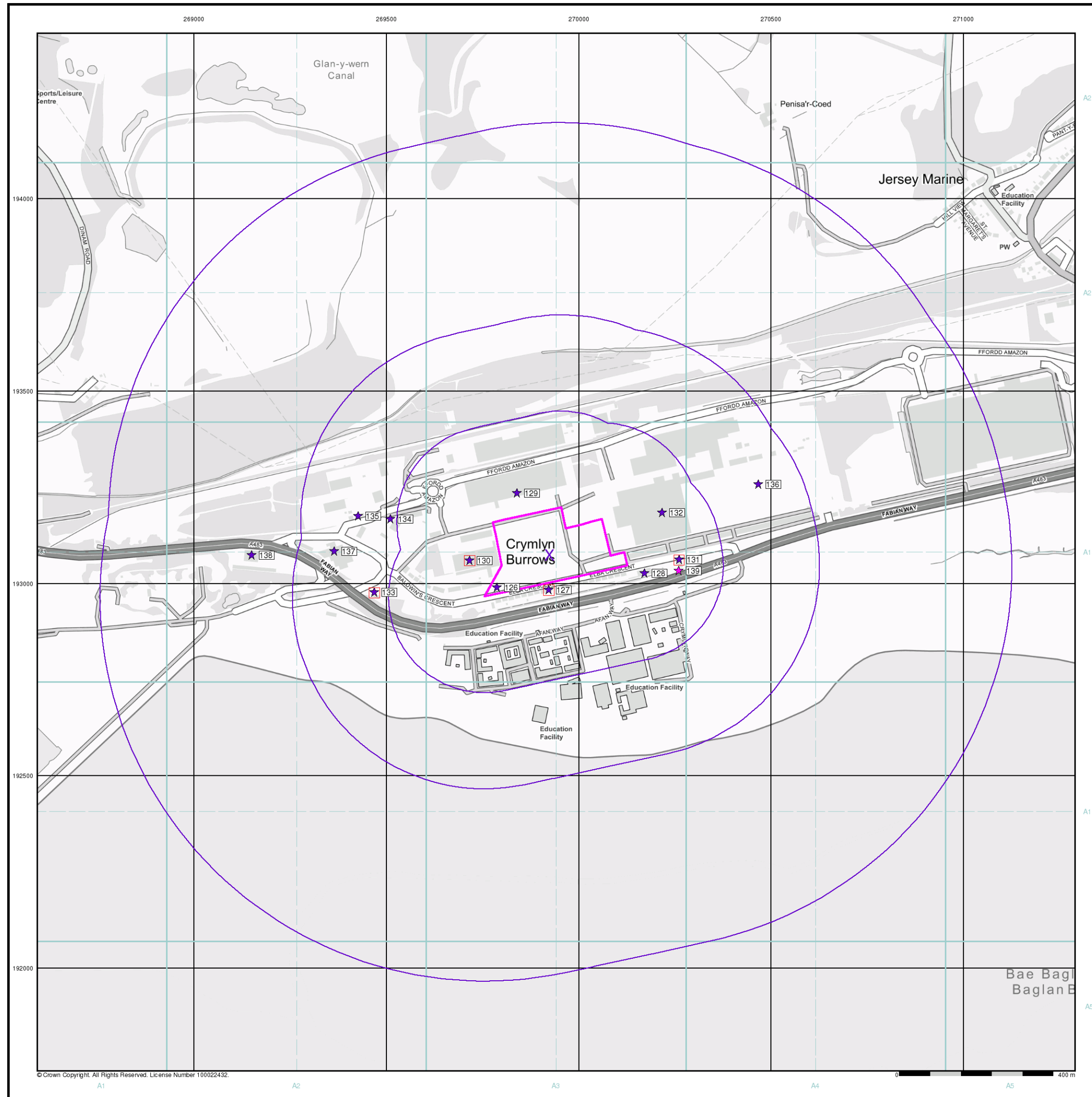
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Customer Ref: JER9273
National Grid Reference: 269920, 193070
Slice: A
Site Area (Ha): 4.98
Search Buffer (m): 1000

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Industrial Land Use Map

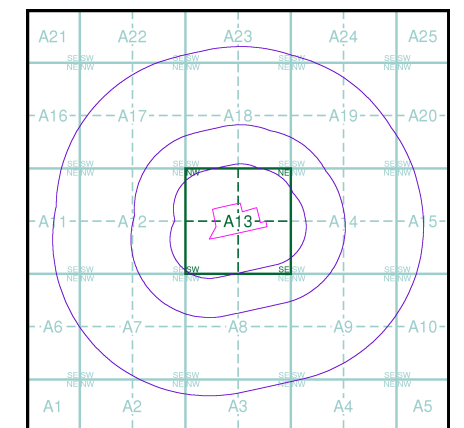
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 285967663_1_1
Customer Ref: JER9273
National Grid Reference: 269920, 193070
Slice: A
Site Area (Ha): 4.98
Search Buffer (m): 1000

Site Details

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