



Environmental Permit - Variation
Celsa Manufacturing (UK) Ltd,
Swansea Docks, Lockhead, Kings Dock,
Swansea, SA1 1QR
Permit No. EPR/AB3891FT

On behalf of:
Celsa Manufacturing (UK) Ltd

Project Reference:
019-1691

Revision:
REV 00

Date:
April 2019

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Annexes

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ECP39 Swansea Scrap Yard Management Plan – Rev 3

ECP40 Fire Prevention and Mitigation Plan – Rev 6

ECP41 Noise and Vibration Management Plan – Rev 1

Annex C: Environmental Risk Assessment

Abbreviations

BAT	Best Available Technique
BGS	British Geological Survey
BREF	Best Available Techniques Reference Documents
DEFRA	Department for Environment Food and Rural Affairs
EA	Environment Agency
EAME	Earth and Marine Environmental Consultants Ltd
EMS	Environmental Management System
EPR	Environmental Permit
FRA	Flood Risk Assessment
FPMP	Fire Prevention Mitigation Plan
IBC	Intermediate Bulk Container
LEV	Local Exhaust Ventilation
mg/l	milligrams per litre
NGR	National Grid Reference
NRW	Natural Resources Wales
Opra	Operational Risk Appraisal
PPE	Personal Protective Equipment
PPM	Planned Preventative Maintenance
RPE	Respiratory Protective Equipment
SCR	Site Condition Report
SSSI	Site of Special Scientific Interest
µg/l	micrograms per litre

1 Introduction

1.1 Background

This document has been prepared by Celsa Manufacturing (UK) Ltd (Celsa) and its environmental consultant Earth & Marine Environmental Consultants Ltd (EAME) in support of an environmental permit variation (Waste Operation Regulated Facility) as required under Regulation 20 of the *Environmental Permitting (England and Wales) Regulations 2016*.

This variation is in relation to operations undertaken at Swansea Docks, Lockhead, Kings Dock, Swansea, SA1 1QR (*Annex A – Figure A1*). The Authorised company contact is Mr. Richard Lewis (Celsa Manufacturing (UK) Ltd, Environmental Manager).

An environmental permit (EPR) is required where an operator carries out certain prescribed activities, namely installations that undertake Schedule 1 activities, a waste operation or a mobile plant (carrying out either one of the Schedule 1 activity or a waste operation). Celsa operates a scrap metal yard. Using the flow chart in RGN2, the activity would be classified as Waste Operation Regulated Facility (R13 Storage of waste pending any of the operations numbered R1 to R12 and R4 Recycling/reclamation of metals and metal compounds). The activity description is a Tier 3 bespoke permit for a mixed metal recycling activity (Opra charged activity) with a discharge to surface water.

The status log of the permit is outlined within *Table 1.1*.

Table 1.1: Permit No. EPR/AB3891FT Log		
Description	Date	Comments
Application (EPR/AB3891FT/A001)	Duly Made 08/11/17	Application for mixed metal facility
Additional information received in response to Schedule 5 notice	26/11/18	Consisting of Information on waste codes, Updated Site-specific risk assessment, Updated Fire Prevention & Mitigation Plan and Noise and Vibration Management Plan.
	05/02/18	Updated Fire Prevention & Mitigation Plan
Permit determined EPR/AB3891FT	27/04/18	Permit issued to Celsa Manufacturing (UK) Limited

Table 1.1: Permit No. EPR/AB3891FT Log		
Application EPR/AB3891FT/V002	Duly Made 21/09/18	Application to vary to add a waste treatment activity.
Additional information received in response to Schedule 5 notice	17/10/18	Updated Fire Prevention & Mitigation Plan
Variation determined EPR/AB3891FT		Varied permit issued.

The document represents the variation report submitted as part of the application package to the NRW (EAME Ref. 019-1691).

The report has been produced in accordance with the NRW's current Guidance (*Table 1.2*).

Table 1.2: Technical Standards and Guidance	
Type	Reference
EPR Guidance	<p>NRW (2014). How to comply with your environmental permit, Version 8, October 2014.</p> <p>Defra (2019). Develop a management system: environmental permits. https://www.gov.uk/guidance/develop-a-management-system-environmental-permits.</p> <p>Defra (2018). Control and monitor emissions for your environmental permit. https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit.</p>

Table 1.2: Technical Standards and Guidance	
Type	Reference
Horizontal Guidance	<p>Defra (2016). Risk assessments for specific activities: environmental permits, https://www.gov.uk/government/collections/risk-assessments-for-specific-activities-environmental-permits, 2 February 2016. H1 software tool and guidance.</p> <p>Defra (2016). Energy efficiency standards for industrial plants to get environmental permits, 1 February 2016. H2 Energy efficiency.</p> <p>Environment Agency (2004). Integrated Pollution Prevention and Control (IPPC) Horizontal Guidance for Noise H3 Part 2 – Noise Assessment and Control, Version 3, June 2004.</p> <p>NRW (2014). How to comply with your environmental permit, Additional guidance for: H4 Odour Management, Version 2, October 2014.</p> <p>NRW (2014). Environmental Permitting Regulations, Guidance for applicants H5, Site condition report – guidance and templates, Version 5.0, October 2014.</p>
BREFs	<p>European Union (2012). Establishing the best available techniques (BAT) conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for iron and steel production (2012/135/EU).</p> <p>European Union (2013). Best Available Techniques (BAT) Reference Document for Iron and Steel Production.</p>
Sector Guidance	<p>NRW (2017). Fire Prevention & Mitigation Plan Guidance – Waste Management, Guidance Note 16, Document Owner: Regulatory Business Board, Version 2.0, August 2017.</p> <p>NRW (2014). Metal Recycling Industry Environment Management Toolkit Waste Sector - Metal Recycling Sites, Version 2.0, October 2014.</p> <p>EA (2013). S5.06 Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste, Version 5, May 2013.</p> <p>Environment Agency (2004). IPPC Guidance, Production of Coke, Iron and Steel, S2.01, Issue 1, June 2004.</p>

The variation application package includes completed application forms that are cross-referenced to this technical submission, which is intended to address all the areas required by the variation application. The various documents included with this application package are set out below:

- completed application forms (Part A, Part C4 and Part F1);
- non-technical summary;
- technical submission (this report);
- technical submission (supporting information);
 - Environmental Risk Assessment
 - ECP39 Swansea Scrap Yard Environmental Management Plan REV 3
 - ECP40 Fire Prevention & Mitigation Plan REV 6
 - ECP41 Noise and Vibration Management Plan REV 1
 - Celsa Companies House Certificate
 - Celsa ISO14001 and EMAS Certificates 2017
- completed Opra assessment spreadsheet (NRW provided version - PAN-002062 A001 Reviewed OPRA 30/11/17);
- Mr Richard Lewis Permit Application Authorisation (26/03/19) – letter from Celsa Managing Director to submit application;
- the application fees;

The above items should be regarded as constituting the variation application. In-line with the Form F1 guidance the variation application includes 1 x CD and 1 x paper copy of the application package.

The application has been submitted (via recorded delivery) to the Natural Resources Wales, Permit Receipt Centre, Natural Resources Wales, Cambria House, 29 Newport Road, Cardiff, CF24 0TP. Email: permitreceiptcentre@naturalresourceswales.gov.uk

The remainder of this document outlines the requirements requested by the NRW to progress the permit variation application.

1.2 Operational Risk Appraisal (Opra)

The fees associated with this application (**£7,645**) have been calculated using the current Opra spreadsheet (NRW provided version - PAN-002062 A001 Reviewed OPRA 30/11/17) as agreed with the local NRW Environment Officer.

1.3 Payment Details

Celsa Manufacturing (UK) Ltd has paid the application fee via BACS to the following account:

- Company name – Natural Resources Wales
- Company address – Income Dept. PO Box 663, Cardiff, CF24 0TP
- Bank – RBS
- Address – National Westminster Bank PLC, 2 Devonshire Square, London, EC2M 4BA
- Sort code – 60-70-80
- Account number – 10014438
- Payment reference number – EPRCELSAMANU0001

Notification of payment has been sent (including reference number) to:
banking.team@cyfoethnaturiolcymru.gov.uk.

2 Operations

2.1 Introduction

The waste processing and storage activities meets the description of an installation as defined as a Tier 3 bespoke permit for a mixed metal recycling activity¹ i.e. R13 Storage of waste pending any of the operations numbered R1 to R12; and R4 Recycling/reclamation of metals and metal compounds.

The specific changes included within this variation are:

- change in operating hours;
- revised scrap metal storage capacity to enable efficient movement of material via ship;
- extension of the current permit boundary;
- movement of current weighbridge and addition of a second weighbridge;
- movement of the offices and employee car park;
- revised site layout including orientation and location of unprocessed and processed scrap metal stockpiles;
- installation of a new small scrap metal screening plant (pre-conveyor magnetic separator);
- replacement of the existing shear with new unit with higher processing throughput; and
- installation of new larger (self-bunded) above ground diesel storage tank.

The various locational changes are outlined within *Figure 2.1*. Details regarding process and equipment changes are described within the following sections.

¹ Environment Agency (2015). Regulatory Guidance Series, No. RGN 2 Understanding the meaning of regulated facility, Version 3.1. May 2015.

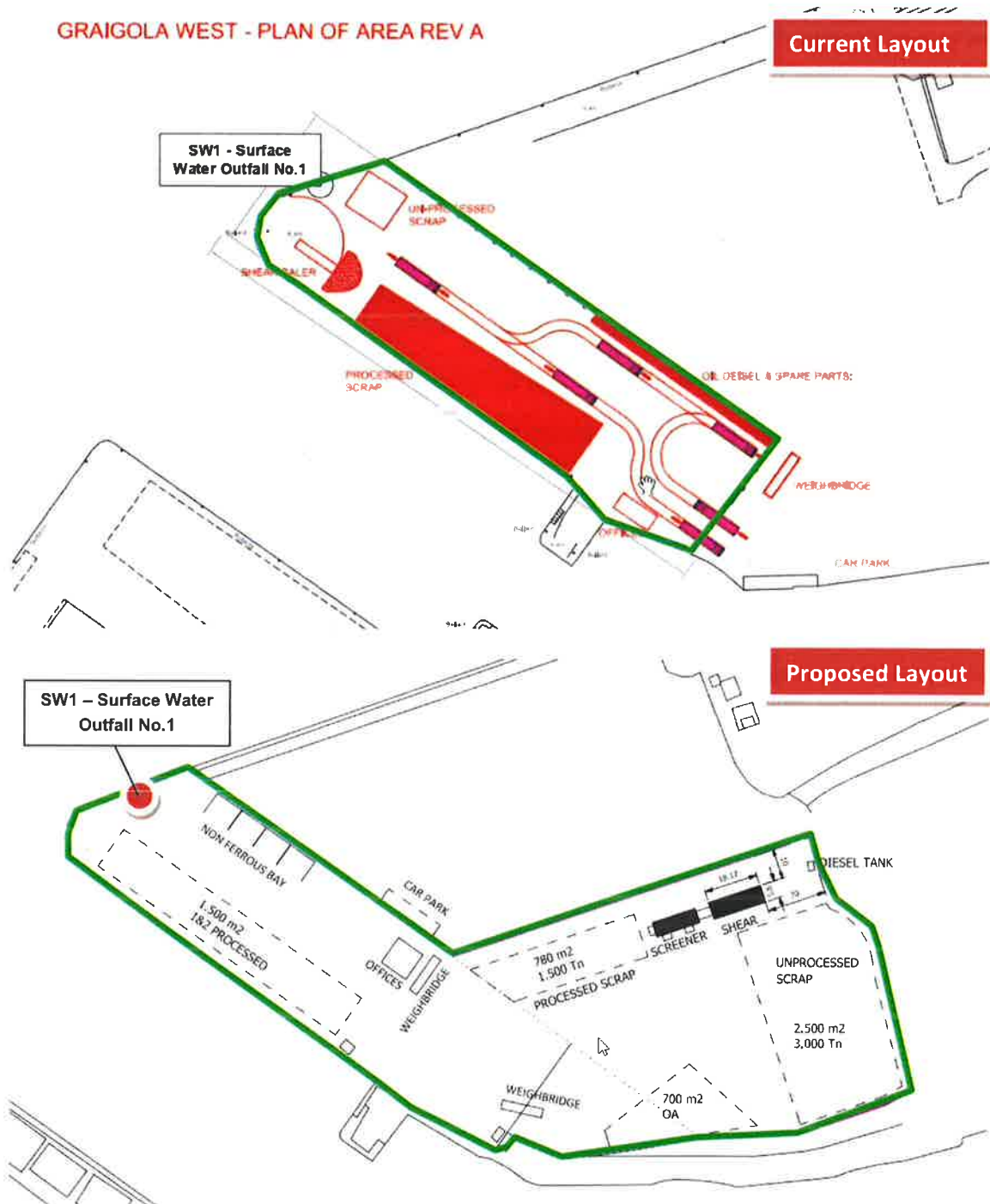


Figure 2.1: Current and proposed site layouts (permit boundary in green)

2.2 Waste Acceptance - Types of Waste

No new waste streams (EWCs) are proposed as part of the variation.

2.3 Avoidance, Recovery and Disposal of Wastes

The site is a scrap metal recovery operation. The only waste disposal which will occur will be due to (i) unrecoverable elements and (ii) dirt and fines (19 12 12) within the incoming waste streams. Contractual agreements and operational procedures will aim to minimise the amount of waste disposal from the facility.

No new waste disposals (EWCs) will occur due to this variation application.

2.4 Waste Acceptance – Volume of Waste

No changes to the total volume of waste received and processed at the site are proposed.

The proposal is to increase storage volumes of processed scrap metal within the permitted area to enable (as an option) the efficient export of processed scrap metal (via ship) to Spain. In order to achieve this, there needs to be at least 3,000 tonnes of processed scrap metal on the dockside ready for vessel loading. To enable this Celsa proposes to increase the number of processing hours to ensure that, at the end of each day, there is approximately 3 days of processed stock remaining within the installation boundary. This equates to approximately 600 tonnes.

Where this route is taken less road transfers to Celsa Cardiff will occur. An example scenario is provided below (this assumes 4,000 tonnes per month transfer from Swansea to Cardiff):

- Current road transfers – 4,000 tonnes equate to 166 HGV movements/month (Swansea to Cardiff);
- Proposed vessel/road transfer – 3,000 tonnes (vessel/month) and 1,000 tonnes (Swansea to Cardiff) equates to 41 HGV movements/month.

Therefore, it is requested that the maximum storage capacity (at any one time) is increased from the current 5,000 tonnes to a maximum of 7,000 tonnes. The proposed future limits are outlined within *Table 2.2* with proposed changes outlined in red.

Table 2.2: Proposed waste volumes				
	Annum	Month	Week	Day
Total Waste Input (tonnes per annum)	120,000	10,000	2,500	417
Ferrous Recovery (tonnes per annum)	112,800	9,400	2,350	392
Non-ferrous Recovery (tonnes per annum)	3,600	300	75	13

Maximum Storage Capacity (at any time)	7,000 tonnes
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2.5 Waste Acceptance – Procedures

No changes to the principal waste acceptance procedures are required. The process flow chart for the operations is outlined in *Figure 2.2*.

2.6 Waste Export – Procedures

Celsa would propose to use the new online system for International Waste Shipments (IWS) where International Transfrontier Shipments of Waste (TFS) is to occur. Notification and movement forms will be obtained from NRW prior to all planned movements.

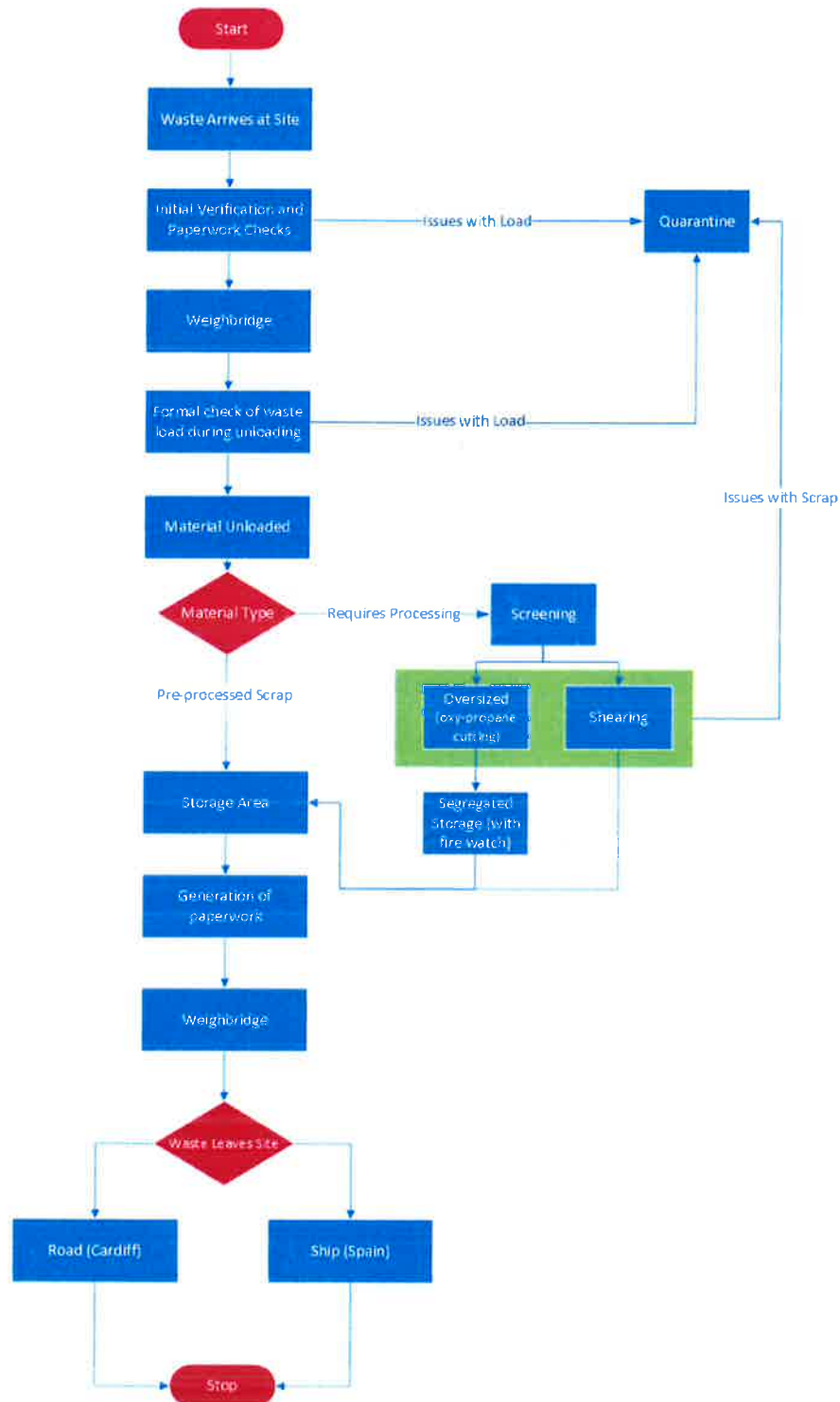


Figure 2.2: Process flow chart (scrap metal acceptance and processing)

2.7 Site Activities

The Site will continue to process scrap metal using shearing and a hand-held oxy-propane cutting kit (where required). Supporting activities will include storage of incoming scrap metal, storage of processed scrap metal, equipment refuelling from an on-site above ground storage tank (compliant with *The Water Resources (Control of Pollution) (Oil Storage) (Wales) Regulations 2016*), two weighbridges, general waste storage area and a welfare cabin.

The proposed variation includes a revision to the current operating hours to allow for increased processing flexibility (*Table 2.1*).

Table 2.1: Operating Hours	
Current	Proposed
Monday to Friday: 8:00 – 18:00	Monday to Friday: 6:00 – 18:00
Saturday: 9:00 – 17:00	Saturday: 6:00 – 17:00
Sundays and Bank Holidays: No operations	Sundays and Bank Holidays: 06:00 – 14:00

2.7.1 Scrap Storage (Processed and Unprocessed)

All scrap metal will be unloaded within the (revised) permitted boundary and stored in separate piles (either processed or unprocessed) on good quality engineered tertiary containment surfaces suitable for the storage of scrap metal.

As previously the facility will store and process the following grades of scrap (in-line with the revised 2006 British Metals Recycling Association specifications):

- Grade AO – Plate and structural, consisting of cut structural and plate arisings predominantly 6 mm thick in sizes not exceeding 1.50 m x 0.60 m x 0.60 m (or as otherwise agreed) prepared in a manner to ensure compact charging. May include properly prepared wagon material less than 6mm thick. Excludes tube and hollow section.
- Grade 1 – Old Steel, predominantly 6 mm thick, in sizes not exceeding 1.50 m x 0.60 m x 0.60 m (or as otherwise agreed) prepared in a manner to ensure compact charging. May include tube and hollow section, wire rope properly prepared by agreement with consumer, properly prepared material from heavy commercial vehicles including wheels, but excluding body and wheels from light vehicles.

- Grade 2 – Old Steel, predominantly 3 mm thick, in sizes not exceeding 1 m x 0.60 m x 0.60 m (or as otherwise agreed) prepared in a manner to ensure compact charging. May include properly prepared material from dismantled vehicles including light vehicle wheels but must exclude vehicle body arisings and domestic appliances.

As part of the revised and extended permit boundary the re-organisation will allow the facility to store processed and unprocessed scrap metal in a more efficient manner whilst freeing up dock-side space for the proposed export material. The revised storage areas are as follows:

- Area 1 – 2,500 m² of unprocessed Grade 1&2.
- Area 2 – 780 m² of processed Grade 1&2 scrap awaiting transfer to Celsa Cardiff.
- Area 3 – 700 m² of unprocessed Grade OA scrap. The decision whether to process using the shear or hand-held oxy-propane cutting kit will depend on material width.
- Area 4 – 1500 m² of processed scrap awaiting export to Spain.

The reorganised stockpiles (unprocessed and processed) are outlined within *Figure 2.3*.

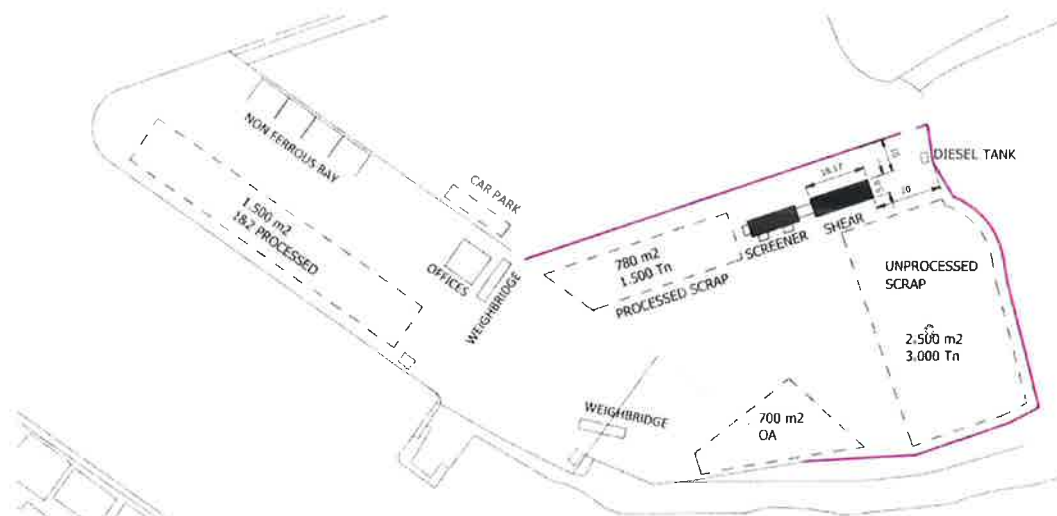


Figure 2.3: *Process layout (scrap metal acceptance and processing)*

Source: Layout T800-C LSx7 000.pdf

The volume, location and maximum size of the piles is outlined within the submitted Fire Prevention and Mitigation Plan (FPMP) that complies with current guidelines².

2.7.2 Screening

The site proposes to install a pre-conveyor magnetic separator prior to the shear (e.g. Ambisort Recycling PS-R200/600) as outlined in *Figure 2.4* to improve the cleanness/quality of the scrap.

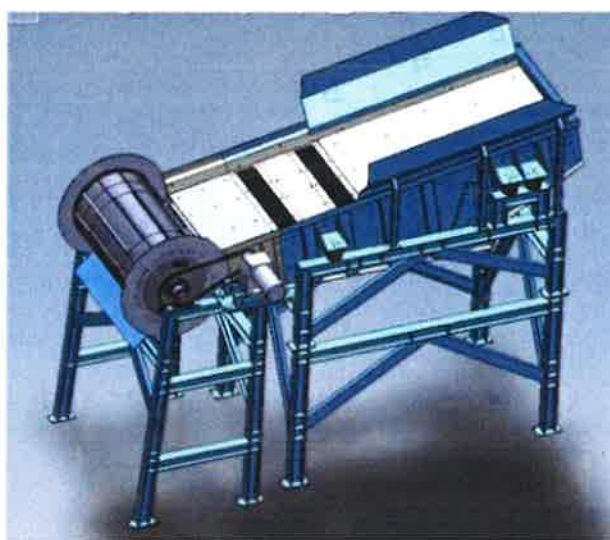


Figure 2.4: *Proposed scalping screen (Terex Finlay 883+)*

A conveyor belt carries the incoming (unprocessed) material over a powerful magnetic head pulley to automatically remove steel and ferrous materials while aluminium products fall into a separate collection container.

2.7.3 Shearing

The proposal is to upgrade the existing shear from the current 650 tonne to a slightly larger and more powerful 850 tonne shear (*Figure 2.5*). The new shear will increase shearing capacity by approximately 33 %. The existing shear will be removed once the new shear is in place and the transition backlog of scrap metal has been processed.

² NRW (2017). Fire Prevention & Mitigation Plan Guidance – Waste Management Guidance Note 16, Document Owner: Regulatory Business Board, Version 2.0, July 2017.

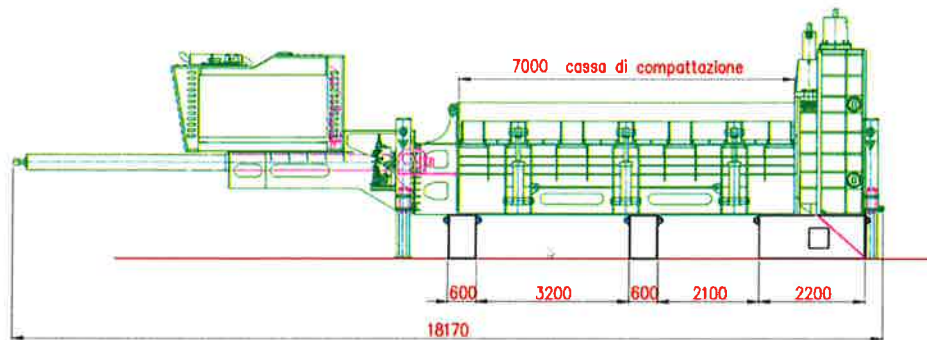


Figure 2.5: Process flow chart (scrap metal acceptance and processing)

Source: Layout T800-C LSx7 000.pdf

The new shear will be located away from the current dock side *i.e.* moved to allow processed scrap storage prior to vessel loading.

2.7.4 Cutting

No changes are proposed. Activity is already part of the permit.

2.7.5 On-site Refuelling

As part of the installing the revised shear the facility proposes to revise the fuel storage arrangements. This includes:

- installation of new 8,000-litre self-bunded above ground tank. The tank will be fully compliant with *Control of Pollution (Oil Storage) (Wales) Regulations 2016*; and
- moving the bulk fuel storage location approximately 12 metres from the new shear (within the extended yard area). This will remove the tank from the existing compound.

No other changes are proposed. Activity is already part of the permit.

2.7.6 General Waste Storage

No changes are proposed. Activity is already part of the permit.

2.7.7 Welfare Facilities

No changes are proposed. Activity is already part of the permit.

3 Managing the Activity

3.1 General Management

Celsa Manufacturing (UK) Ltd has implemented and maintains an Environmental Management System (EMS) that is certified to ISO14001:2015 (Certificate No. ES081434) and EMAS (Reg. No. UK-000178).

The EMS continues to be maintained and is externally audited (by Bureau Veritas) whilst delivering all indicative Best Available Technique (BAT) requirements for an effective management system.

Celsa Manufacturing (UK) Ltd also operates a certified OHSAS18001:2007 Occupational Health and Safety Management System. These systems will also be applied at the Swansea Scrap Yard.

The Swansea Scrap Yard will be audited (by Bureau Veritas) under the existing certifications.

3.2 Operations and Maintenance

No changes are proposed to the existing systems (as stated in the original application).

3.3 Accidents

No changes are proposed to the existing Accident/Pollution Management Emergency Plan (as stated in the original application).

Celsa Manufacturing (UK) Ltd has established and will maintain a stand-alone Fire Prevention and Mitigation Plan in-line with NRW Guidance². This has been revised in-light of the proposed additional shear and incoming/processed stockpiles.

3.4 Incidents and non-conformances

Accidents, Incidents, complaints and non-conformances are to be handled through the existing processes that form part of the ISO 14001 EMS.

3.5 Site security

The wider-site (Port of Swansea) is subject to Associated British Port (ABP) security control via the access point from Baldwins Crescent. The site itself is surrounded by a 2.4-metre-high palisade fence. All access on to site will be controlled by the Scrap Yard Manager. No unauthorised access will be permitted. The site will be fitted with permanent CCTV.

3.6 Sufficient competent persons and resources

The total manning of the site can vary dependent upon the level of activity being undertaken. Based on proposed current activities there will be between 2 and 8 people at any one time. These provide engineering, technical, transport, administration and environmental support. Celsa Manufacturing (UK) Ltd will provide a comprehensive training programme for the site and the proposed operations in-line with the competency requirements operated at the Cardiff site (*e.g.* general environmental awareness, maintenance and operational activities, accident and emergency response). This training will be provided to all site operatives.

3.7 Records that demonstrate your management system

Records relating to the operation of the site are to be handled through the existing processes that form part of the ISO 14001 EMS. All records relating to the operation of the installation will be maintained as per the stated procedures.

3.8 Access to your permit

Access to the permit will be through existing internal systems (*i.e.* intranet and on-site noticeboard). Where contractors undertake work within the site the requirements of the permit will be actively brought to their attention.

3.9 Permit surrender and closure

No changes to the previously proposed surrender/closure process have been identified.

4 Emissions to Air, Water and Land

4.1 Emissions to Air

4.1.1 Point source emissions to air

There are no point source emissions to air from the installation.

4.1.2 Fugitive emissions to air

The sources of potential fugitive emissions include emissions from diesel vehicles and plant and emissions of particulate due to materials handling and processing. These have been described and assessed within the original permit application. No significant changes are predicted.

The site is not located in a sensitive setting (with respect to air emissions) being located centrally in an industrial dock area.

4.2 Emissions to surface water

4.2.1 Point source emissions to surface water

No new point source emissions to surface water are proposed.

All surface water from the installation is captured and passes through a Class 1 full retention separator.

4.2.2 Fugitive emissions to surface water

There are no fugitive emissions to surface water.

4.3 Emissions to Sewer

4.3.1 Point source emissions to sewer

There are no point source emissions to foul sewer.

4.4 Emissions to Groundwater

4.4.1 Point source emissions to groundwater

There are no point source emissions to groundwater from the installation.

4.4.2 Fugitive emissions to groundwater

No fugitive emissions to groundwater have been identified because of the proposed variation.

The entire Site is composed of good quality engineered hardstanding to prevent fugitive emissions to groundwater (*i.e.* perched tidally influenced groundwater within the confines of the dock walls).

4.4.3 Odour

Celsa believe that the operations give no reasonable cause for offence or annoyance regarding odour.

No changes are required to current systems.

4.4.4 Pests

Based upon the nature of the proposed operations, the wastes being stored, handled and treated and their location no significant pest issues are anticipated. Thus, a pest management plan has not been produced.

No changes are required to current systems.

5 Noise and Vibration

The Site is located central with the Port of Swansea and is surrounded by industrial and commercial operations including other waste processing activities (*Figure 5.1*). The closest sensitive noise receptors are located 500 metres north of the Site beyond a series of other industrial and commercial activities.



Figure 5.1: Noise receptors surrounding the installation

Google Earth Imaging with the permission of Google – Licensed to Earth and Marine Environmental Consultants Ltd.

The previously submitted noise and vibration management plan has been updated to reflect the additional screening plant and scrap metal shear. No operational or management system changes have been made to the noise and vibration management plan.

6 Monitoring

6.1 Monitoring of emissions to air

There are no point source emissions to air from the installation. No monitoring is required.

6.2 Monitoring of emissions to surface water

There is a single point source discharge from the installation to surface water [**Emission Point: SW1**]. As the discharge is not continuous and is derived solely of surface water run-off from the slab no direct monitoring is proposed. A correctly functioning separator should be able to achieve <5 mg/l of oil (under ideal conditions).

Visual assessment of the final discharge (*e.g.* presence of sheen or silty appearance) will be recorded within the Site Diary during discharge periods.

No new monitoring requirements have been identified due to the proposed variation.

6.3 Monitoring of emissions to sewer

Not applicable.

6.4 Monitoring of noise emissions

Based upon the nature of the proposed operations and their location (in relation to sensitive receptors) no significant noise or vibration issues are anticipated (*i.e.* the installation represents a very low risk). No formal environmental noise surveys are therefore proposed.

6.5 Monitoring of odorous emissions to air

Based upon the nature of the proposed operations and their location (in relation to sensitive receptors) no significant odours are anticipated (*i.e.* the installation represents a very low risk). No formal odour monitoring is therefore proposed.

7 Environmental Risk Assessment

7.1 Introduction

This section of the technical submission provides an assessment of the environmental significance of the emissions from the installation by looking at the Site in the context of its environmental setting and UK guidance for such assessments.

The EA's Horizontal Guidance Note H1 (Environmental Assessment and Appraisal of BAT) was withdrawn on 1st February 2016. Thus, the 'Risks from your Site' information on the www.gov.uk website has been utilised throughout the assessment process³. The website outlines the following risk assessment stages:

- Stage 1 – Identify and consider risks for your site, and the sources of the risks.
- Stage 2 – Identify the receptors (people, animals, property and anything else that could be affected by the hazard) at risk from your site.
- Stage 3 – Identify the possible pathways from the sources of the risks to the receptors.
- Stage 4 – Assess risks relevant to your specific activity and check they're acceptable and can be screened out.
- Stage 5 – State what you'll do to control risks if they're too high.
- Stage 6 – Submit your risk assessment as part of your permit application.

7.2 Receptor Identification

A revised Site Condition Report (SCR) gives a detailed account of the environmental setting of the site, including physical conditions and environmental sensitivities.

7.3 Risk Assessment

A revised risk assessment, using the approach outlined within *Section 7.1*, has been prepared and the results are provided in *Annex C*.

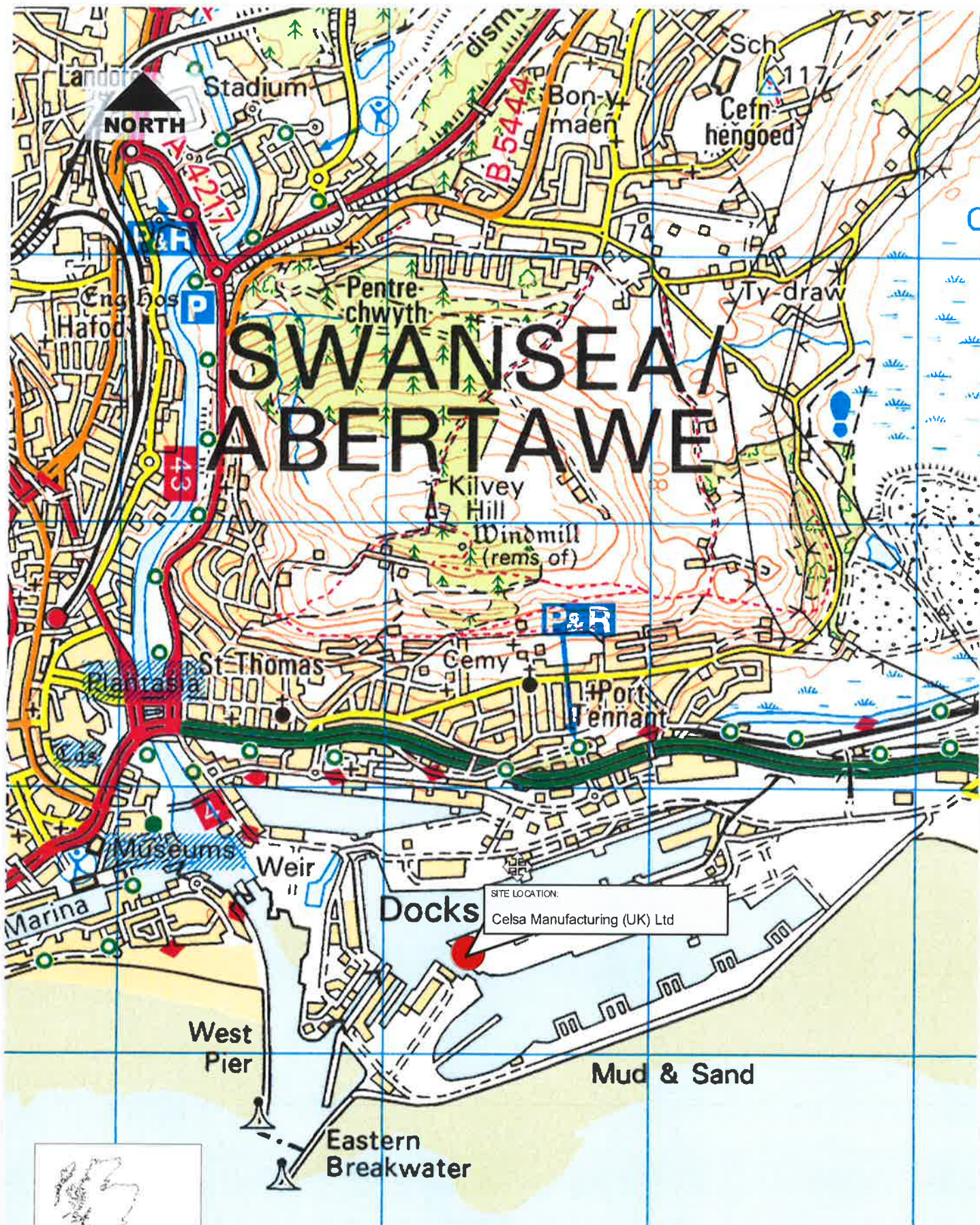
All stated risks are deemed acceptable (post mitigation).

³ <https://www.gov.uk/government/collections/risk-assessments-for-specific-activities-environmental-permits>

Annex A: Figures and Site Plans

Annex B: Site Procedures and Plans

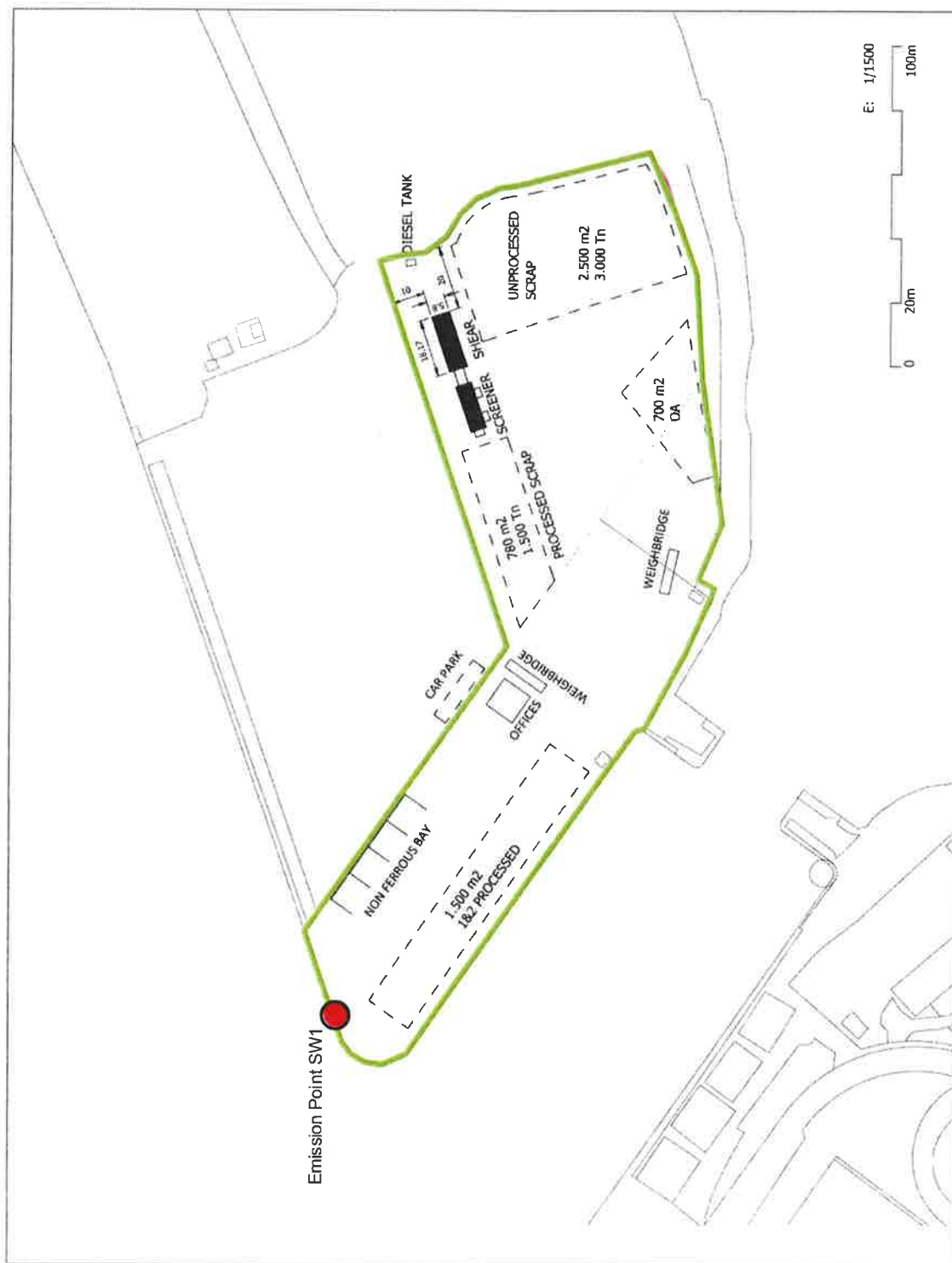
Annex C: Environmental Risk Assessment



Ordnance Survey 1: 50,000 scale map with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright
Earth and Marine Environmental Consultants Ltd, Licence No. 100050755


TITLE	JOB REFERENCE:	REVISIONS		
		No.	Date	Description
Figure A1. Site Location	019-1691	00	17/04/19	Final for report
	DATE:			
CLIENT:	April 17, 2019			
	SCALE:			
Celsa Manufacturing (UK) Ltd	1:50,000	DRAWN BY:	CHECKED BY:	
		MJS	SPR	



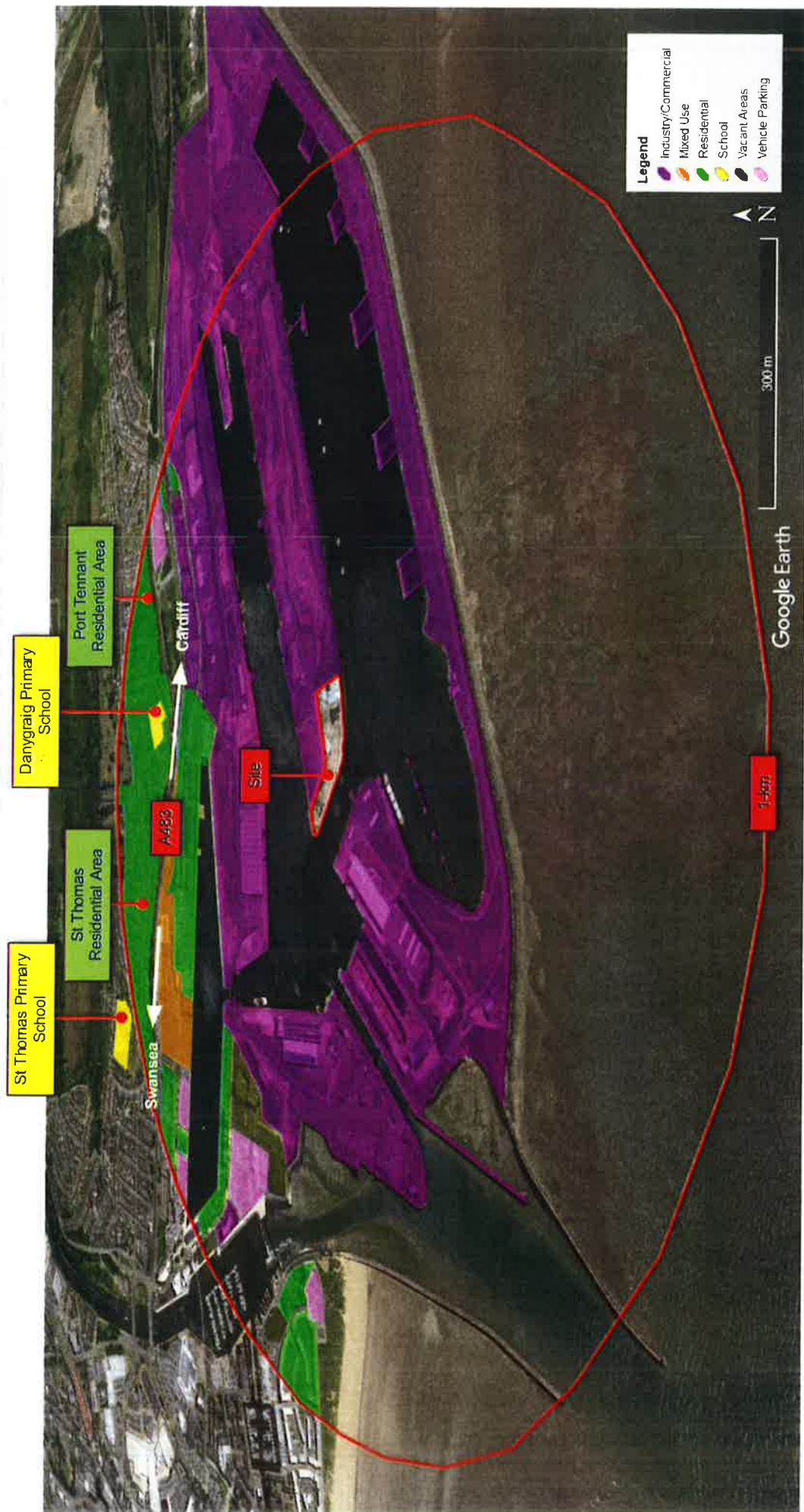


Source: Celsa Manufacturing (UK) Ltd plan, Ref. Swansea_EBROTONS_text-A4.pdf (April, 2019)

☐ Permit boundary (EPR/AB389/1FT)

TITLE:	JOB REFERENCE:	REVISIONS:
Figure A2. Revised Permit Boundary and Site Layout	019-1691	No. Date.
		00 17/04/19
	DATE:	- - -
	April 17, 2019	- - -
		- - -
CLIENT:	SCALE:	DRAWN BY:
Celsa Manufacturing (UK) Ltd	As stated	MJS
		CHECKED BY:
		SPR
		





Hospitals
No hospitals within 1-km of the Site. The closest is Westfa Day Hospital 2.6-km west.

Nursing homes
No nursing homes within 1-km of the Site. The closest is Heathfield Lodge 2.3-km north northeast.

Schools
One school within 1-km of the Site. Danygraig Primary School is 740 metres north. St Thomas Primary School is just over 1-km north.

Residential areas
Multiple residential areas associated with the St Thomas and Port Tennant areas.

Places of work
Multiple business located within 1-km of the Site.

Transport networks
Internal road network associated with Port of Swansea leading to A483. Please refer to 017-1586 Calsa Scrap Yard Transport Statement REV00.

TITLE:

Figure A3.

Environmental Receptors
(within 1-km of the Site)

CLIENT:

Calsa Manufacturing (UK) Ltd

JOB REFERENCE:
019-1691

DATE:
March 20, 2019

SCALE:

As stated

REVISIONS:

No.	Date	Description
00	2003/19	Final for report
-	-/-	-
-	-/-	-
-	-/-	-

DRAWN BY:

MJS

CHECKED BY:

SPR



Environmental Assessment
Management & Engineering

Environmental Risk Assessment



Facility: Waste Operation (Bespoke - Tier 3) - Celsa Manufacturing (UK) Ltd, Metals Recycling Site

Location: Swansea Docks, Lockhead, Kings Dock, Swansea, SA1 1QR

Location of environmentally sensitive sites (m) Cors Crymlyn/Crymlyn Bog SSSI (within 2-km)

Risk assessment carried out by: Earth & Marine Environmental Consultants Ltd

Date: March 2019

Probability of exposure (likelihood of the receptors being exposed to the hazard)



Severity (Consequences)

The consequences of a hazard being realised may be actual or potential harm. This will include be on a high/medium/low/very low score using attributes and scaling to consider 'harm'.

Magnitude of the risk - is determined by combining the probability with the magnitude of the potential consequences



Control measures (Risk management involves breaking or limiting the source-pathway-receptor linkage to reduce risk)

Data and information				Significance Assessment			Action and Residual Risks		
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures	Residual risk
Releases of particulate matter (cush) during handling and processing (shearing and cutting)	Air transport then inhalation	Local human population	Harm to human health (respiratory irritation and illness)	LOW	MEDIUM	MEDIUM	Permitted waste types do not include dusts, powders or loose fibres. Other adjacent landuses are Port based or related to waste treatment. The closest residential receptors are located approximately 500 metres north of the Site on the northern side of the Prince of Wales Dock.	Good housekeeping driven by regular site inspections. Road sweeper employed as required. Daily visual inspections at all areas of the site will be carried out by site personnel. In the event that significant visual dust is observed at the permit boundary of the site, action will be taken to either stop the activity and/or suppress the dust.	LOW

Data and information				Significance Assessment			Action and Residual Risks		
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures	Residual risk
Releases of particulate matter (dusts) during handling and processing (shearing and cutting)	Air transport then deposition	Local human population	Nuisance (e.g. dust on cars, clothing etc.)	LOW	MEDIUM	MEDIUM	Permitted waste types do not include dusts, powders or loose fibres. Other adjacent landuses are Port based or related to waste treatment. The closest residential receptors are located approximately 500 metres north of the Site on the northern side of the Prince of Wales Dock.	Good housekeeping driven by regular site inspections. Road sweeper employed as required. Daily visual inspections at all areas of the site will be carried out by site personnel. In the event that significant visual dust is observed at the permit boundary of the site, action will be taken to either stop the activity and/or suppress the dust.	LOW
Litter	Air transport then deposition	Local human population, surrounding water features (dock) and wildlife.	Nuisance, loss of amenity and harm to animal health	LOW	MEDIUM	MEDIUM	Potential for wind driven moveable elements within the incoming waste streams is minimal.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any wind blown litter derived from site activities.	VERY LOW
Waste, litter and mud on local roads (derived from internal Port road system).	Vehicles entering and leaving site.	Local human population	Nuisance, loss of amenity, road traffic accidents.	LOW	MEDIUM	MEDIUM	Vehicles entering the site will enter from the public highway through the Port of Swansea. The internal road system is an impermeable surface but large puddles have been identified between the entrance and the Site. The Site itself is composed of impermeable surface and no source of mud has been identified.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any wind blown litter derived from site activities. Road sweeper employed as required.	LOW
Odour	Air transport then inhalation.	Local human population	Nuisance, loss of amenity.	LOW	LOW	LOW	Local residents often sensitive to odour, however permitted waste types have low odour potential.	Good housekeeping combined with strict waste acceptance procedures would be used to identify putrescible waste within the incoming waste streams (considered unlikely). Where non-compliant material is identified it would be separated and contained.	VERY LOW
Noise and vibration	Noise through the air and vibration through the ground.	Local human population	Nuisance, loss of amenity, loss of sleep.	LOW	MEDIUM	MEDIUM	Local residents could be sensitive to noise and vibration derived from the Site activities. The closest residential receptors are located approximately 500 metres north of the Site on the northern side of the Prince of Wales Dock. There are various other noise and vibration sources between the Site and the closest residential receptors.	Where applicable, wheeled plant is used to reduce ground vibration. Periods of unloading noise and vibration will be for short duration. Boundary noise monitoring will be undertaken where required. Operating hours restricted.	LOW

Data and information				Significance Assessment				Action and Residual Risks	
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures	Residual risk
Scavenging animals and scavenging birds	Air transport and over land	Local human population	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	LOW	LOW	LOW	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting/breeding sites (although this is considered unlikely given the size of the site).	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any waste types that may attract birds to the Site.	VERY LOW
Pests (e.g. flies)	Air transport and over land	Local human population	Harm to human health, nuisance, loss of amenity	LOW	LOW	LOW	Permitted wastes unlikely to attract pests.	Good housekeeping driven by regular site inspections. Internal and external boundary routines to identify and collect any waste types that may attract pests to the Site.	VERY LOW
Flooding of site	Flood waters	Local human population and local environment	If waste is washed off site it may contaminate the adjacent Dock.	LOW	MEDIUM	MEDIUM	According to the NRW Flood Risk mapping, the Site lies within an area of Low chance of flooding (rivers and seas). Low means that each year, this area has a chance of flooding of between 1 in 1000 (0.1%) and 1 in 100 (1%). The Site is not at risk of flooding due to surface water and there is no reservoir flood risk.	Planned preventative management of the separator (weekly inspection) and servicing (6 monthly maintenance). Hazardous substances are stored within secondary containment and sealed drainage areas to reduce the loss of containment risk. If surface water flooding did happen site activities would cease and the NRW would be informed.	LOW
All on-site hazards: wastes; machinery and vehicles.	Direct physical contact	Local human population gaining unauthorised access to the waste operation	Bodily injury	LOW	HIGH	MEDIUM	Site security measures at these facilities to prevent theft. There is security on entry to the Port of Swansea (operated by ABP) and there will be security on entry to the Site (controlled by Celsa). The entire Site is surrounded by 2.4 m high palisade fencing.	All activities shall be managed and operated in accordance with the stated management system (this includes site security measures to prevent unauthorised access).	LOW

Data and information				Significance Assessment				Action and Residual Risks	
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures	Residual risk
Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Local human population and local environment.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution of water or land.	LOW	HIGH	MEDIUM	Site security measures at these facilities to prevent theft. There is security on entry to the Port of Swansea (operated by ABP) and there will be security on entry to the Site (controlled by Celsa). The entire Site is surrounded by 2.4 m high pallisade fencing. Permanent CCTV is to be provided.	All activities shall be managed and operated in accordance with the stated management system (this includes site security measures to prevent unauthorised access). Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials. All materials stored in accordance with the FPMP.	LOW
Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Local human population and local environment	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land.	LOW	HIGH	MEDIUM	Risk of accidental combustion of waste is low. Permitted activities do not include the burning of waste.	All activities shall be managed and operated in accordance with the stated management system. A Site-specific Fire Prevention & Mitigation Plan (FPMP) has been established and maintained. Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials. All materials stored in accordance with the FPMP.	LOW
Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Direct run-off from site across ground surface, via surface water drains (separator) etc.	All surface waters close to the site (Swansea Docks).	Acute effects: oxygen depletion, fish kill and algal blooms.	LOW	HIGH	MEDIUM	All permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside especially during heavy rain.	All liquids shall be provided with secondary containment. Run-off from the slab is engineered to drain through the Class 1 full retention separator (NSF200). With a nominal flow rate 200 litres/second the Class 1 separators is designed to achieve a discharge concentration of less than 5 mg/litre of oil. It has a silt capacity of 20,000 litres and a oil storage capacity of 2,000 litres.	LOW

Data and information				Significance Assessment				Action and Residual Risks	
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures	Residual risk
Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	As above. Indirect run-off via the soil layer.	All surface waters close to the site (Swansea Docks).	Chronic effects: deterioration of water quality.	LOW	HIGH	MEDIUM	All permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside especially during heavy rain.	All liquids shall be provided with secondary containment. Run-off from the slab is engineered to drain through the Class 1 full retention separator (NSF200). With a nominal flow rate 200 litres/second the Class 1 separators is designed to achieve a discharge concentration of less than 5 mg/litre of oil. It has a silt capacity of 20,000 litres and a oil storage capacity of 2,000 litres.	LOW
Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Abstraction (or use) of surface water downstream of facility (for agricultural, fish farming or potable use).	Acute effects, closure of abstraction intakes.	LOW	HIGH	MEDIUM	All permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside especially during heavy rain.	All liquids shall be provided with secondary containment. Run-off from the slab is engineered to drain through the Class 1 full retention separator (NSF200). With a nominal flow rate 200 litres/second the Class 1 separators is designed to achieve a discharge concentration of less than 5 mg/litre of oil. It has a silt capacity of 20,000 litres and a oil storage capacity of 2,000 litres.	LOW
Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Transport through soil/groundwater then extraction at borehole.	Groundwater	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	LOW	MEDIUM	MEDIUM	There is a potential for contaminated rainwater run-off or leakage from permitted waste types.	All liquids shall be provided with secondary containment. The entire Site is constructed of good quality impermeable surface. There are no pathways to the groundwater.	LOW

Data and information				Significance Assessment			Action and Residual Risks	
Source	Pathway	Receptor	Potential Harm	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Control Measures
Contaminated waters used for recreational purposes	Direct contact or ingestion	Local human population	Harm to human health - skin damage or gastro-intestinal illness.	LOW	MEDIUM	MEDIUM	Unlikely to occur, but might restrict recreational use.	All liquids shall be provided with secondary containment. Run-off from the slab is engineered to drain through the Class 1 full retention separator (NSF200). With a nominal flow rate 200 litres/second the Class 1 separators is designed to achieve a discharge concentration of less than 5 mg/litre of oil. It has a silt capacity of 20,000 litres and a oil storage capacity of 2,000 litres.
Any	Any	Protected sites - European sites and SSSIs	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	VERY LOW	VERY LOW	LOW	Waste operations may cause harm to and deterioration of nature conservation sites. There are protected sites within 1-km. The closest site is Cors Crymlyn/Crymlyn Bog SSSI.	No emissions to air from the processes is anticipated. No pathway to impact the stated SSSI has been identified.
Serious Fire	Air transport then inhalation or deposition. Direct run off of fire water across site to surface waters.	Local human population and all surface waters close to and downstream of site.	Nuisance, harm to human health, loss of amenity, deterioration of water quality	LOW	HIGH	MEDIUM	Risk of accidental combustion of waste is low. Permitted activities do not include the burning of waste.	All activities shall be managed and operated in accordance with the stated management system. A Site-specific Fire Prevention & Mitigation Plan (FPMP) has been established and maintained. Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials.
Serious Fire	Direct run off of fire water across site to surface waters.	All surface waters close to and downstream of site.	Loss of amenity, deterioration of water quality	LOW	HIGH	MEDIUM	Risk of accidental combustion of waste is low. Permitted activities do not include the burning of waste.	All activities shall be managed and operated in accordance with the stated management system. A Site-specific Fire Prevention & Mitigation Plan (FPMP) has been established and maintained. Spillage procedures will be established and maintained alongside suitable sufficient spillage response materials.

Opra Spreadsheet for Waste Facilities

Version: **NRW v1** Release Date: **01-Apr-15**

Permit No: **PAN-002062** Site Name: **Celsa Swansea Scrap Yard**

Date: **30/11/2017** Operator: **Celsa Manufacturing (UK) Ltd**

Attribute	Bands		Points
<u>Complexity(s):</u>	C		35
<u>Emissions:</u>	C		15
<u>Location:</u>	C		3
<u>Operator Performance:</u>	A		2
	Total:		55

Fees and Charges	
Application Fee	£9,405
Normal Variation	£7,645
Full Surrender	£6,875
Part Surrender	£6,875
Subsistence	See Charge Tables

Compliance Rating

Subsistence Multiplier **100%**

Reference Sheet

Complexity Attribute

Site Type: A20



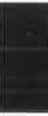
Complexity Band:

C

2nd Site Type: ...



2nd Band:



Complexity Bands are based on a lookup table (see References tab)

More than one Complexity (Site Type) is required only in circumstances where the permit in question covers a landfill activity and a treating/keeping activity. In all other circumstances only one site type should be entered. Where more than one site type applies, the one carrying the highest relevant complexity band is used.

Emissions Attribute (Waste Input)

Waste Type	Annual Tonnage	Emission Threshold	Emission Index
Inert		1000	
Non Hazardous (Non Bio)	120,000	750	160
Non Hazardous (Bio)		500	
Hazardous		250	
Total:			160
			Band: C

Emission Bands are based on total index: <10=A, <100=B, <1000=C, <10000=D, >=10000=E

Location Attribute

Question

Answer

Points

Proximity to Human Occupation:

50m-250m

3

Assessment under wildlife, countryside or habitats legislation:

CRoW

2

Groundwater/Aquifers:

Yes - Outside GPZ

1

Sensitivity of surface water:

Grade 1 or 2

3

Total Points: 10

Band: C

Location Bands are based on total points: 0-4=A, 5-8=B, 9-12=C, 13-18=D, >18=E

Question

Answer

Points

Direct run-offs:

Yes - With interceptors

1

Air Quality Management Zone:

No

Flood Plain:

No

Operations & Maintenance

1 Do you have documented operating procedures for operations that may have an adverse impact on the environment?	Yes	4	
2 Is there a defined procedure for identifying, reviewing and prioritising items of plant for which a preventative maintenance regime is appropriate?	Yes	2	
		0	
4 Do you have a preventative maintenance programme for items of plant whose failure could lead to impact on the environment?	Yes	2	Max = 12
5 Does the preventative maintenance programme include regular checks and formal inspections of infrastructure items such as tanks, pipework, retaining walls, bunds and ducts?	Yes	2	Weight = 20%
6 Are the reports, results and recommendations arising from your own audits made available to senior management on a regular basis?	Yes	2	Weighted Score
Operations and Maintenance Total		12	2.0

Competence and Training - 20%

1 Has a training needs assessment been carried out which:	Yes	3	
<input type="checkbox"/> Identifies all posts for which specific environmental awareness training is required; and			
<input type="checkbox"/> Identifies the scope and level to which such training is to be given?			
2 Are training systems in place for all relevant staff that cover the following factors:			
<input type="checkbox"/> the regulatory requirements associated with the Permit as they affect their roles and responsibilities;	Yes	2	
<input type="checkbox"/> likely potential environmental impacts which may be caused by plant under their control. This should cover both normal and abnormal circumstances;	Yes	2	
<input type="checkbox"/> reporting procedures to inform supervisors or managers of deviations from permit conditions;	Yes	3	
<input type="checkbox"/> procedures to be used by supervisors or managers for the reporting of deviations from permit conditions to the regulator	Yes	2	
<input type="checkbox"/> prevention of accidental emissions and action to be taken when accidental emissions occur?	Yes	2	Max = 17
3 Do you assess the potential environmental risks posed by the work of contractors and provide instructions to contractors about protecting the environment while working on site?	Yes	3	Weight = 20%
4 If there are industry standards for training in this sector (e.g. WAMITAB) do you apply them? (If no industry standards please leave blank)	Yes	0	Weighted Score
Competence Training Total		17	2.0

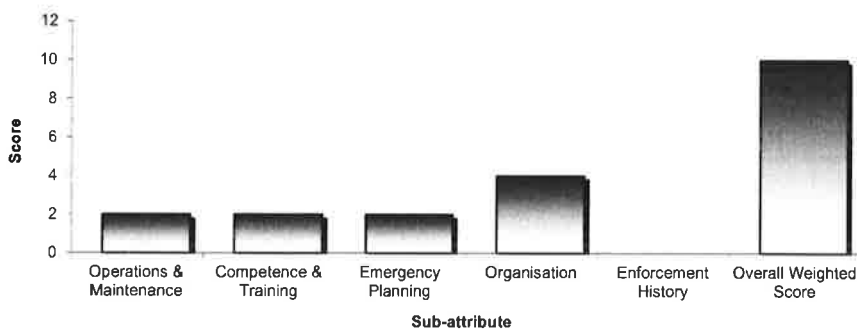
Emergency planning - 20%

1 Is there an accident plan that complies with guidance covering the following aspects of foreseeable scenarios: likelihood, consequences, actions to prevent, action to take in the event it occurs?	Yes	6	
2 Has the plan identified areas where improvement is needed?	Yes	2	
3 Where improvement has been identified, does the plan include an implementation programme with acceptable timescales to the regulator? If not, points will be deducted.	Yes	0	
4 Do you have written procedures for handling, investigating, communicating and reporting actual or potential non compliance with operating procedures or emission limits?	Yes	4	
		0	Max = 12
		0	Weight = 20%
		0	Weighted Score
Emergency planning Total		12	2.0

Organisation - 40%			
Internal/External Environment Management Systems:			
Answer either Question 1 or Question 2			
NB: If your externally audited system is ISO9001 but you also have an internal environmental management system, you may be able to obtain a better score by providing answers to question 2			
1	Do you have a certified Environmental Management System, subject to external audit, which covers the activities allowed by this permit? If so which one?	EMAS ▼	20
Sub Total			20
2 If you do not operate an externally audited environmental management system but have an internal one, assess your system against the criteria below:			
2.1	Has your company adopted an environmental policy and programme which :		
	<input type="checkbox"/> includes a commitment to continual improvement and prevention of pollution?	Yes	3
	<input type="checkbox"/> includes a commitment to comply with relevant legislation, and with other requirements that the organisation subscribes to?	Yes	3
	<input type="checkbox"/> identifies, sets, monitors and reviews environmental objectives, independently of the permit?	Yes	3
2.2	Do you have an environmental policy and programme which is subject to audit by your company?	Yes	2
2.3	Are there annual reports on environmental performance, objectives and targets, future planned improvements and/or do you participate in local community liaison meetings?	Yes	1
3	Does your company produce a public environmental statement? You may score in this box for ISO 14001 and industry systems but not for EMAS as this is a requirement for EMAS.	No	0
4	Within the past 5 years have you failed to meet an improvement condition set by the regulator in a Permit or Variation by the due date, without prior agreement? (minus 2 for each failure). ADD NUMBER OF FAILURES NOT Y OR N	0	0
Organisational Total:			20.0
			4.0
			Max = 12
			Weight = 40%
			Weighted Score

Enforcement History (0 to -40% weighting)			
Please enter the number of times relevant enforcement actions have been pursued in connection with your site. Note: the timescales over which action remains relevant depends on the type of enforcement action and is contained in the questions below			
1	Number of Enforcement, Improvement, Works, Compliance or Restoration Notices issued in the past year by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990 or relevant notice or Abatement Notices issued by local authorities or magistrates courts under Part III of the Environmental Protection Act 1990 (in all cases, other than any overturned on appeal by the Operator)	0	
2	Number of Formal Cautions, Enforcement Undertakings or Fixed Monetary Penalties issued by the Environment Agency in respect of offences under relevant legislation in the last 3 years.	0	
3	Number of Prohibition, Stop, Suspension or Revocation Notices issued by the Environment Agency under any legislation, by the HSE relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990, (other than any overturned on appeal by the Operator) in the last 3 years	0	
4	Number of Convictions on prosecutions brought by the regulator under any legislation, by the HSE relevant to the COMAH regulations or by local authorities (in respect of offences under Parts I or III of the Environmental Protection Act 1990) in last 5 years (or 10 years where a term of imprisonment was imposed on the Operator) (other than any overturned on appeal). Or number of any Variable Monetary Penalties issued.	0	
			0
			Max = -40
			Weight = 40%
			Weighted Score
			0.0
Overall Operator Performance Score:			10.00
Band E= less than 2 D= 2 to 3.99, C= 4 to 5.99, B= 6 to 7.99 , A= 8 to 11			BAND= A

Operator Performance Summary



Operator Performance Summary	
Operations & Maintenance	2.0
Competence & Training	2.0
Emergency Planning	2.0
Organisation	4.0
Enforcement History	0.0
Overall Weighted Score	###

Complexity Bands	
A01	EEE
A01-Closed	B
A02	EE
A02-Closed	B
A03	E
A03-Closed	B
A04	DD
A04-Closed	B
A04-Dredgings	B
A05	C
A05-Closed	A
A06	C
A06-Closed	A
A07	C
A07-Closed	A
A08	C
A08-Closed	A
A09	D
A10	B
A11	C
A12	D
A13 (non-haz)	B
A13 (haz)	C
A14	B
A15	A
A16 (non-haz)	A
A16a (haz)	D
A17	E
A18	D
A19	C
A19a	B
A20	C
A21	E
A22	C
A23	C
A24	B
A25	B
A26	n/a
A27	A
A29	B
L05	C
L05-Closed	A

2015/16

Charge Multipliers						
App	£171	Nor Var	£139	Full Surr	£125	Part Surr
Subs	NA					

Converting Bands to Opra Score

Band	A	B	C	D
Complexity	4	10	35	50
Emissions	3	7	15	30
Location	1	2	3	5
Op Perf	2	4	7	10
Compliance Rating	0.95	1	1.1	1.25
Band	A	B	C	D

EMS	Points
No	0
EMAS	20
ISO14001	15
Other Accredited	12
ISO 9001	8

£125

E	DD	EE	EEE
65	100	130	195
40			
7			
14			
1.5	3		
E	F		

Environmental Permit Application - Variation Celsa Manufacturing (UK) Limited

Non-Technical Summary
Permit No. EPR/AB3891FT

019-1691 | April 2019 | Revision 00



Introduction

Celsa Manufacturing (UK) Ltd operates a scrap metal yard within the Port of Swansea. This document is the non-technical summary that forms part of the application (variation) package in relation to the following proposed changes:

- change in operating hours;
- revised scrap metal storage capacity to enable efficient movement of material via ship;
- extension of the current permit boundary;
- movement of current weighbridge and addition of a second weighbridge;
- movement of the offices and employee car park;
- revised site layout including orientation and location of unprocessed and processed scrap metal stockpiles;
- installation of a new small scrap metal screening plant (pre-conveyor magnetic separator);
- replacement of the existing shear with new unit with higher processing throughput; and
- installation of new larger (self-bunded) above ground diesel storage tank.

The site accepts will accept a range of ferrous and non-ferrous metals for on-site processing but no hazardous waste is permitted. This is an excluded waste category.

The activities are still controlled by a formal environmental management systems (EMS) that is compliant and certified to ISO14001:2015 and the Eco-Management and Audit Scheme (EMAS).

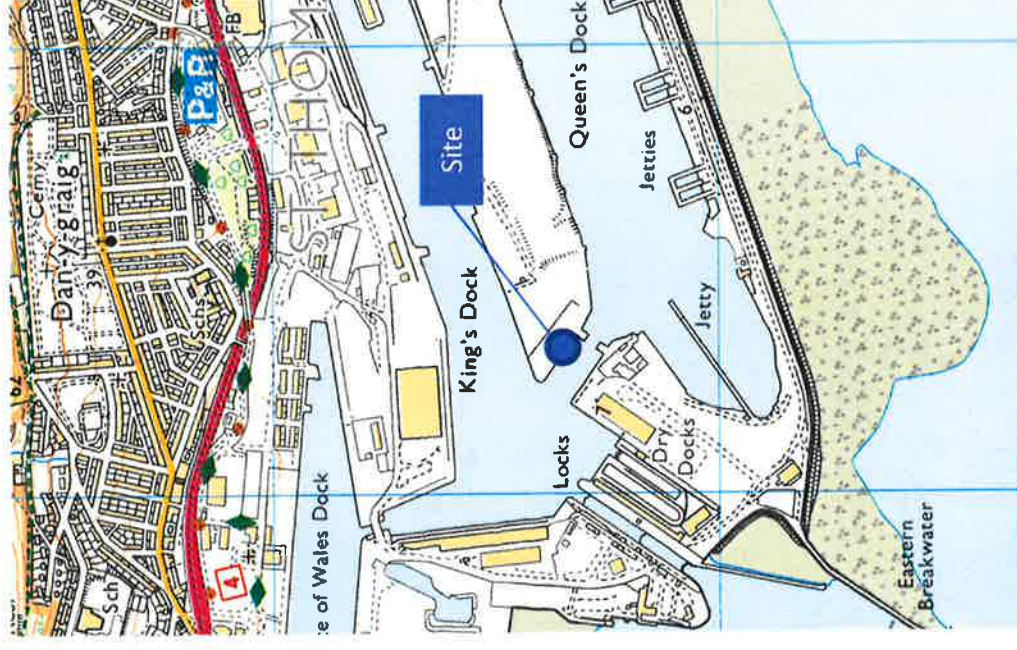
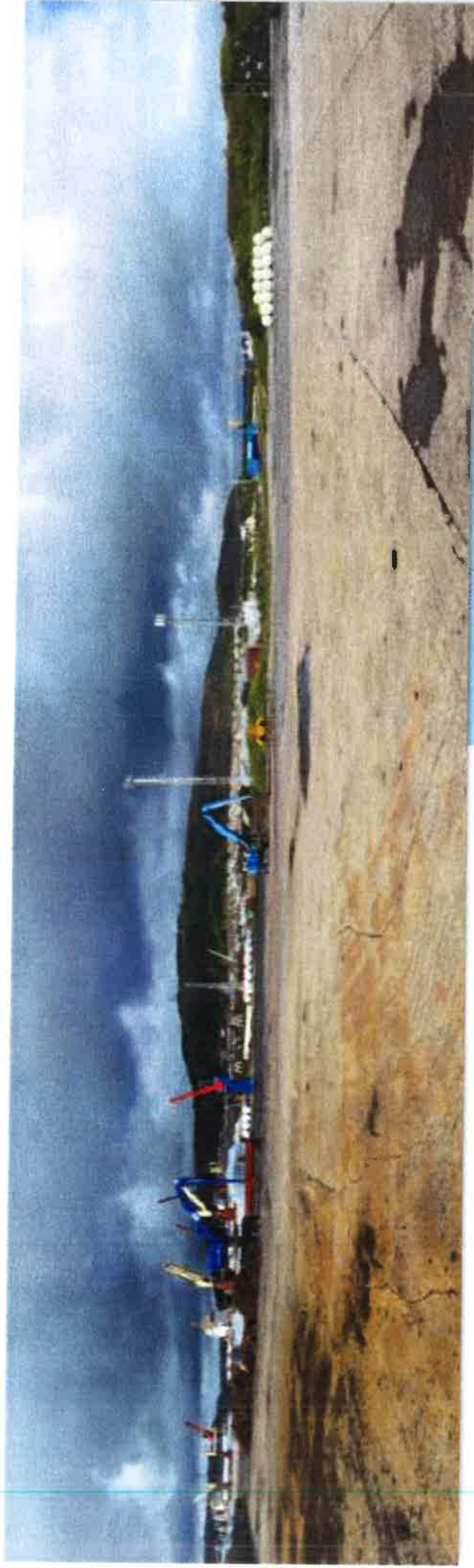


Figure 1: Site Location - Ordnance Survey Map Extract (1:50,000)
Ordnance Survey 1: 25,000 scale map with the permission of the Controller of Her Majesty's Stationery Office, Crown Copyright Earth and Marine Environmental Consultants Ltd, Licence No. 100050755



Photograph 2: View north across proposed extension area



Figure 2: Location of photographs
© OpenStreetMap contributors

The Site is located approximately 1-km east of Swansea City centre at National Grid Reference (NGR) SS 67337 92377. The Site is located within Swansea docks (Port of Swansea) that are owned and operated by Associated British Ports (ABP).

The following current activities have been identified surrounding the Site:

- **NORTH** – King's Dock beyond which are further operations associated with the Port of Swansea. Residential properties are located near the edge of the Prince of Wales Dock (500 metres north).
- **EAST** – Operations associated with the Port of Swansea. Northeast is King's Dock and southeast is Queen's Dock.
- **SOUTH** – Queen's Dock beyond which are a series of disused oil jetties and the breakwater. Beyond the breakwater are mudflats and Swansea Bay.
- **WEST** – Passage between King's Dock and Queen's Dock (Scherzer Passage) beyond which are further operations associated with the Port of Swansea. Residential properties (associated with Swansea Marina) are located approximately 730 metres west.

Surface waters – The Site is surrounded by surface water on two sides (i.e. King's Dock to the north and Queen's Dock to the south). Since approximately 2011/12, Thomas Shellfish Limited has been using Queen's Dock to farm rope-grown mussels. The Queen's Dock in Swansea, where they farm, was certified as an Aquaculture Production Site by CEFAS (Centre for Environment, Fisheries and Aquaculture Sciences) in 2011.

Groundwater – The South Wales Middle Coal Measures Formation (bedrock) is classified as a Secondary A Aquifer (formerly known as a minor aquifer). The superficial shallow deposits are uncategorised.

Flood Risk – According to the NRW Flood Risk mapping, the site lies within an area of Low chance of flooding (rivers and seas). Low means that each year, this area has a chance of flooding of between 1 in 1000 (0.1%) and 1 in 100 (1%). The site is not at risk of flooding due to surface water and there is no reservoir flood risk.

Residential Areas – The closest residential properties are located 500 metres north on the northern side of the Prince of Wales Dock.

Historic buildings, listed buildings and archaeological sites - The Historic Wales website was queried to identify any listed buildings or ancient monuments. The closest is Swansea Castle 1.77 km north northwest of the Site.

Conservation and habitats protected areas and areas of scientific interest – NRW data was queried to locate Sites of Special Scientific Interest (SSSI), Special Protection Areas (SPAs) Special Areas of Conservation (SACs), Ramsar Sites, National Nature Reserves, Areas of Outstanding Natural Beauty (AONB), National Parks and Local Nature Reserves in the immediate and wider surrounds of the Site. The closest protected site (approximately 1.3-km east) is Crymlyn Bog/Cors Crymlyn SSSI (Ref. 33WWP) and SAC (Ref. UK0012885).

Emissions to Air, Water and Land

Emissions to Air

There will be no point source emissions to air from the activities. Fugitive emissions will occur due to the use of diesel vehicles, plant and the handling and shearing of scrap metal. Particulates (dust) could be emitted to atmosphere during the unloading and loading of scrap metal within vehicles and the loading and unloading of the box shear although the levels are expected to be low (insignificant).

Emissions to Surface Water

The entire site is composed of good quality engineered hardstanding that is suitable for the storage, handling and treatment of scrap metal. Rainfall that falls on to the ground will be directed to a Class 1 full retention separator prior to discharge into King's Dock (*Figure 2*). The separator will remove and store both particulate (silt) and oil. The separator is oversized so it will be able to easily cope with the run-off from the permitted area. A full retention separator treats all water passing through it i.e. there is no by-pass facility. An alarm system is fitted to detect the presence of oil within the separator.

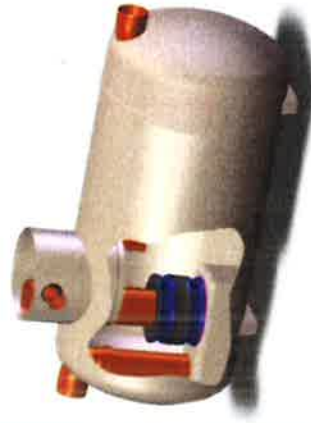


Figure 2: Full retention separator

<https://www.kingspanenviro.com/klargester/full-retention-separators#product-details-container>

Emissions to Sewer

There are no point source emissions to foul sewer. Domestic sewerage, from the on-site facilities (welfare cabins), is to be collected and stored within a septic tank. The tank will be emptied (by road tanker) as and when required.

Emissions to Groundwater

There will be no emissions to groundwater either directly or indirectly.

Odour

Based upon the nature of the proposed operations, the wastes being stored, handled and treated (only scrap metal not general waste) and their location (in relation to sensitive receptors) no significant odour issues are anticipated.

Noise and Vibration

The Site is located central with the Port of Swansea and is surrounded by industrial and commercial operations including other waste processing activities. The closest sensitive noise receptors are located 500 metres north of the Site beyond a series of other industrial and commercial activities. Based upon the nature of the proposed operations and their location (in relation to sensitive receptors) no significant noise or vibration issues are anticipated (i.e. the installation represents a very low risk)

Environmental Risk Assessment Summary

This section provides a tabulated overview of the key environmental risks associated with the site (including the impact of the proposed variation).

The overall environmental impact of the proposed development is considered to be beneficial given the economic and jobs boost it will provide. The majority of the potentially negative environmental impacts can be removed through the application of suitable and sufficient engineering and management controls.

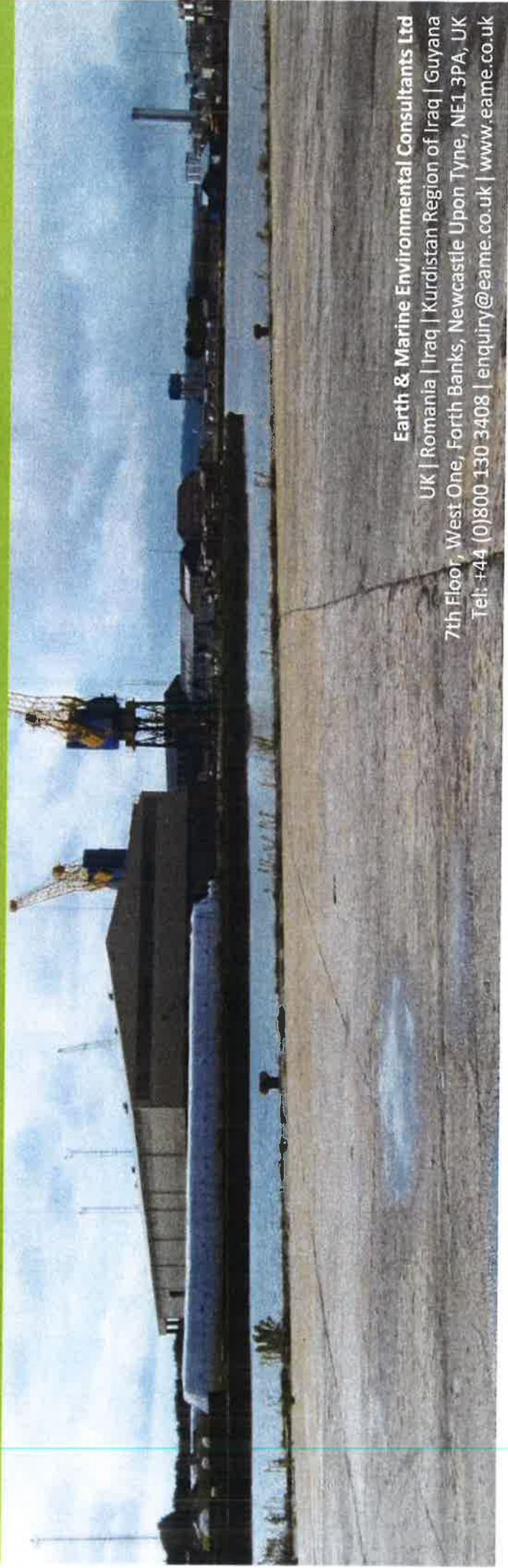
Table 1: Environmental Risk Assessment Summary

Environmental Attribute	Risk (before mitigation)	Risk (after mitigation)
Releases of particulate matter (dusts) during handling and processing.	Medium	Low
Release of litter	Medium	Very Low
Waste, litter and mud on local roads (derived from internal Port road system).	Medium	Low
Odour	Low	Very Low
Noise and vibration	Medium	Low
Scavenging animals and scavenging birds + pests	Low	Very Low
Flooding of site	Medium	Low
All on-site (safety) hazards: wastes; machinery and vehicles.	Medium	Low
Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Medium	Low
Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Medium	Low
Contaminated waters used for recreational purposes	Medium	Low
All sources – leading to harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Low	Very Low
Serious Fire	Medium	Low



EAME

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287

Please complete in typescript,
or in bold black capitals.
CHWP000

Change in situation or address of Registered Office

Company Number **04577881**

Company Name in full **CELSA MANUFACTURING (UK) LIMITED**

New situation of registered office

NOTE:

The change in the situation of the registered office does not take effect until the Registrar has registered this notice.

For 14 days beginning with the date that a change of registered office is registered, a person may validly serve any document on the company at its previous registered office.

PO Box numbers only are not acceptable.

Address **BUILDING 58**

EAST MOORS ROAD

Post town **CARDIFF**

County / Region

Postcode **CF24 5NN**

Signed

Date

30/4/03

† Please delete as appropriate.

Please give the name, address, telephone number and, if available, a DX number and Exchange of the person Companies House should contact if there is any query.

† a director / secretary / administrator / administrative receiver / liquidator / receiver manager / receiver

STUART DRURY

Tel **02920 488563**

DX number

DX exchange



Form CHWP000 June 1990

When you have completed and signed the form please send it to the Registrar of Companies at:

Companies House, Crown Way, Cardiff, CF14 3UZ DX 33050 Cardiff
for companies registered in England and Wales

or

Companies House, 37 Castle Terrace, Edinburgh, EH1 2EB

for companies registered in Scotland

DX 235 Edinburgh

FILE COPY



**CERTIFICATE OF INCORPORATION
ON CHANGE OF NAME**

Company No. 4577881

The Registrar of Companies for England and Wales hereby certifies that
CELSA STEEL (UK) LIMITED

having by special resolution changed its name, is now incorporated
under the name of
CELSA MANUFACTURING (UK) LIMITED

Given at Companies House, Cardiff, the 28th April 2003



C04577881R



THE OFFICIAL SEAL OF THE
REGISTRAR OF COMPANIES



Companies House
— for the record —

CCC108/20

COMPANY NUMBER 4577881

THE COMPANIES ACTS 1985 TO 1989

PRIVATE COMPANY LIMITED BY SHARES

SPECIAL RESOLUTION OF CELSA STEEL (UK) LIMITED

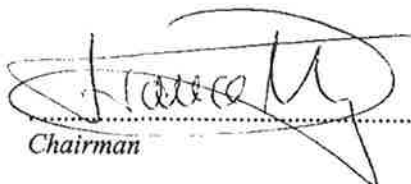
Dated this the 14 Day of April 2003

At an extraordinary general meeting of the above named company, duly convened and held on 14 April 2003, the following resolution was duly passed as a special resolution.

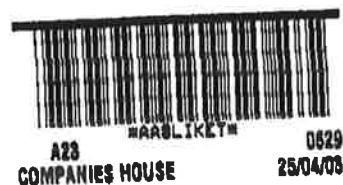
viz:

RESOLUTION

That with the sanction of the Department of Trade the name of the company be and is hereby changed to Celsa Manufacturing (UK) Limited.


Chairman

.....
Dated: 14 April 2003



Natural Resources Wales

26 March 2019

To whom it may concern,

Richard Lewis is appointed as the company Environmental Manager and is therefore the relevant person to apply for permit applications on behalf of Celsa Manufacturing (UK) Ltd.

Yours sincerely,



Luis Sanz

Managing Director



CELSA
GROUP



**Site Condition Report
(with Baseline Reference Data)
Celsa Manufacturing (UK) Ltd
Swansea Docks, Lockhead, Kings Dock,
Swansea, SA1 1QR
Permit No. EPR/AB3891FT**

On behalf of:
Celsa Manufacturing (UK) Ltd

Project Reference:
019-1691

Revision:
REV 00

Date:
April 2019

Earth & Marine Environmental Consultants Ltd
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Registered office: Fron Fawr Farm, Llanfairtalhaiarn, Abergelle, Clwyd, Wales, LL22 8DJ, UK.

Document Control Record				
Revision	Date	Author(s)	Authorised by	Reason for Change
00	17/04/19	DCW	MJS	First draft issue to Client

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Annex C: Environmental Database

Annex D: Site Surveys (Topographic and Structural)

Annex E: Window Sample Logs

Annex F: Soil Analytical Data

Annex G: Groundwater Analytical Data

Abbreviations

BGS	British Geological Survey
EA	Environment Agency
EAME	Earth & Marine Environmental Consultants Ltd
EPR	Environmental Permit
GNSS	Global Navigation Satellite System
GPR	Ground Penetrating Radar
NGR	National Grid Reference
NRW	Natural Resources Wales
NVZ	Nitrate Vulnerable Zone
SCR	Site Condition Report
SPZ	Source Protection Zone
WFD	Water Framework Directive

1 Introduction

1.1 Background

This document has been prepared by Celsa Manufacturing (UK) Ltd (Celsa) and its environmental consultant Earth & Marine Environmental Consultants Ltd (EAME) in support of a bespoke (waste operation) environmental permit variation application as required under Regulation 20 of the *Environmental Permitting (England and Wales) Regulations 2016* in relation to activities proposed to be undertaken at Celsa Swansea Scrap Yard, Graigola Wharf, King's Dock, Swansea Docks, Swansea, SA1 8QT, Wales (Permit No. EPR/AB3891FT). The site has been permitted since 27/04/18.

An environmental permit application is required where an operator carries out certain prescribed activities, namely installations that undertake Schedule 1 activities, a waste operation or a mobile plant (carrying out either one of the Schedule 1 activity or a waste operation).

The waste processing and storage activities meet the description of an installation as defined as a Tier 3 bespoke permit for a mixed metal recycling activity¹:

- R13 Storage of waste pending any of the operations numbered R1 to R12; and
- R4 Recycling/reclamation of metals and metal compounds

A full description of the proposed activities is provided in *Section 4*.

The Site Condition Report (SCR) has been produced in accordance with the Natural Resources Wales (NRW) Guidance Document H5 Site condition report - guidance and templates (Version 5, October 2014) *i.e.* provision of Sections 1 to 3 as outlined in the SCR Template.

The remainder of this document outlines the requirements requested by the NRW to progress the permit variation application.

¹ Environment Agency (2015). Regulatory Guidance Series, No. RGN 2 Understanding the meaning of regulated facility, Version 3.1. May 2015.

2 Site Details

The site details are outlined below.

Name of Applicant	Celsa Manufacturing (UK) Ltd
Activity Address	Celsa Swansea Scrap Yard, Graigola Wharf, King's Dock, Swansea Docks, Swansea, SA1 8QT, Wales
National Grid Reference (NGR)	Grid Reference (6 figure) – SS 67337 92377 51.614539, -3.9174521
Document reference and dates for Site Condition Report at permit application and surrender	Original Application (017-1574): 017-1574 Celsa Swansea Scrap Yard SCR REV00 Variation 2019 (019-1691): 019-1691 Celsa Swansea Scrap Yard - SCR REV00
Document references for site plans (including location and boundaries)	Annex A: Site Plans Figure A1: Site Location (Ordnance Survey 1:25,000) Figure A2: Installation Boundary (outline in green)

3 Condition of Land at Permit Issue

3.1 Environmental Setting

Desk-based research of the local geology, hydrogeology, hydrology and ecology was carried out to establish the potential for migration of contamination onto or away from the site, and to assess the surface water and groundwater sensitivity of the surrounding area. Information was obtained from several sources, namely:

- examination of published geological maps produced by the British Geological Survey (BGS), inspection of the BGS Geology of Britain Viewer and associated borehole logs²;
- review of Envirocheck Landmark report (Ref. 138065595_1_1);
- an examination of the EA's on-line aquifer classification³;
- review of NRW and Joint Nature Conservation Committee (JNCC) on-line environmental data; and
- a review of other online web and other publicly available information.

3.1.1 Geology

According to the BGS viewer and Geological Survey of England and Wales 1:50,000 geological map series (Sheet 247 Swansea, Solid and Drift, 2011), the site is directly underlain by the following deposits:

- **Made Ground** – The key to the BGS map states '*mainly colliery and mineral smelting spoil, also some road and railway embankments*'. Given the Site is within the docks it is highly likely that the excavated dock material (possibly blown Sand or beach and tidal deposits – undifferentiated – sand silt and clay) would have been used to backfill the newly constructed dock walls.
- **Superficial deposits** – Underlying the infilled docks are likely to be either Marine Beach Deposits (Sand) or blown Sand.

² <http://maps.bgs.ac.uk/geologyviewer>

³ <http://maps.Environment-agency.gov.uk/wiyby/wiybyController>

- **Bedrock deposits** – South Wales Middle Coal Measures Formation – Mudstone with coal seams, seatearths and thin sandstone beds up to 240m thick in the Swansea area.

3.1.2 Hydrogeology

The aquifer classification system was updated on 1st April 2010 which provided new aquifer designations to replace the old system of aquifer classifications, such as Major, Minor and Non-Aquifer. This new system is in line with the EA's Groundwater Protection Policy (GP3) and the Water Framework Directive (WFD) and is based on BGS mapping. From a review of the NRW on-line maps, the underlying deposits are classified as:

- **Bedrock Deposits** – The South Wales Middle Coal Measures Formation is classified as a Secondary A Aquifer. These are defined as '*permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers*'.

The groundwater vulnerability has been categorised by the EA/NRW as '*Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst-case vulnerability classification (H) assumed, until proved otherwise*'.

The EA/NRW have defined Groundwater Source Protection Zones (SPZs) for 2,000 groundwater sources such as wells, boreholes and springs used for public drinking water supply. These zones are designated to protect the location from the risk of contamination from any activities that might cause pollution in the area, *i.e.* the closer the activity, the greater the risk. The SPZs show three main zones; an inner, an outer and the total catchment with a fourth zone of special interest, which the EA/NRW occasionally apply, to a groundwater source. The Site is not within an SPZ.

There are currently no groundwater abstractions associate with the site or within a 2-km radius.

3.1.3 Hydrology

The Site is located within the Port of Swansea (*Figure 3.1*) and is surrounded by surface water on two sides (*i.e.* King's Dock to the north and Queen's Dock to the south).



Figure 3.1: Surrounding surface water features

Google Earth Imaging with the permission of Google – Licensed to Earth & Marine Environmental Consultants Ltd.

There are no surface water abstraction licences associated with the Site, and only one abstraction within 500 metres of the Site:

- 109m south (J W Aquaculture Ltd), surface water abstraction from Scherzer Passage, Licence No. 22/69/1/0120, used for aquaculture: fish farm/cress pond throughflow.

Since approximately 2011/12, Thomas Shellfish Limited has been using Queen's Dock to farm rope-grown mussels. The Queen's Dock in Swansea, where they farm, was certified as an Aquaculture Production Site by CEFAS (Centre for Environment, Fisheries and Aquaculture Sciences) in 2011.

3.1.4 Flood Risk

According to the NRW Flood Risk mapping, the Site lies within an area of Low chance of flooding (rivers and seas). Low means that each year, this area has a chance of flooding of between 1 in 1,000 (0.1%) and 1 in 100 (1%) (Figure 3.2).



Figure 3.2: Risk of flooding from Rivers and Sea

<https://maps.cyfoethnaturiolcymru.gov.uk/>

The Site is not at risk of flooding due to surface water and there is no reservoir flood risk.

3.1.5 Ecology

NRW data⁴ was queried to locate Sites of Special Scientific Interest (SSSI), Special Protection Areas (SPAs) Special Areas of Conservation (SACs), Ramsar Sites, National Nature Reserves, Areas of Outstanding Natural Beauty (AONB), National Parks and Local Nature Reserves in the immediate and wider surrounds of the Site. There are no such designated sites within a 1-km

⁴ <http://lle.gov.wales/>

radius of the site. The closest protected site (approximately 1.3-km east) is Crymlyn Bog/Cors Crymlyn SSSI (Ref. 33WWP) and SAC (Ref. UK0012885).

3.1.6 Residential Receptors

The closest residential properties are located 500 metres north on the northern side of the Prince of Wales Dock.

3.1.7 Protected Buildings

The Historic Wales website⁵ and NRW data⁴ was queried to identify any listed buildings or ancient monuments within 1-km. None were identified. The closest is Swansea Castle 1.77 km north northwest of the Site.

3.2 Pollution History

3.2.1 Pollution incidents that may have affected land

There are no recorded pollution incidents or Substantiated Pollution Incidents associated with the Site. There are, however, nine incidents (within 500 metres) related to various dock related activities (including releases from boats and ships).

There are no records of any current or historic landfill sites associated with the Site or within a 1-km search radius. However, the Site is identified as potentially infilled land. The Site (Dock) was created during the creation of the Port of Swansea.

According to publicly available information the Site is not and has not been a licensed waste treatment, transfer and/or disposal site. There are five active or expired licences within 300m of the Site:

- 32m east (EPS Alternative Fuels Limited), King's Dock, Ref. AB3194FB, Expired 22nd March 2017.
- 236m east (Stenor Environmental Limited), Household, Commercial and Industrial Transfer Stations, Graigola Wharf, Ref. JP3198FJ & 34290, Effective 1st March 2017 and 26th June 2007.

⁵ <http://historicwales.gov.uk/>

- 266m west (Caerleon Treatments Limited), Hazardous waste transfer station, King's Dock, Ref. 34006, Expired 30th March 1978.
- 291m north (Glass Tech Recycling Limited), Materials recycling facility, King's Dock, Ref. 900140, Issued 4th August 2015.

3.2.2 Historical land-uses and associated contaminants

The earliest available map (1879) indicated that the Site was undeveloped and was depicted as part of the foreshore of Swansea Bay. By the late 1910s, the Site was part of the Port of Swansea and part of the Graigola Merthyr Patent Fuel Works that extended to the east of the Site. The key stages in the development of the Site are:

- **Port of Swansea** – Work began on the King's Dock (north of the Site) in 1905 to meet the growing demand of Tinsplate exports from the local area. Construction was complete by 1909. At the same time, the King's Dock was being built, a breakwater was constructed further south of the King's dock which enclosed a large body of water covering 61 ha. This body of water was opened in 1920 as the Queen's Dock after oil handling facilities were built to handle imports for the nearby BP oil refinery at Llandarcy and petrochemical plant at Baglan Bay. Usage of the Queen's Dock reached its peak in the 1950s when oil imports and exports reached around 8 million tonnes per year. Since the closure of the oil plants at Baglan Bay and Llandarcy, the Queen's Dock was rendered obsolete as an oil handling facility (*Figure 2.5*).
- **Graigola Merthyr Patent Fuel Works** – According to the Archives Network Wales⁶, Clydach Merthyr Colliery was situated near Clydach in the Swansea Valley. The mine was opened in 1863 by the Graigola Merthyr Company, a member of the Monmouthshire and South Wales Coal Owners' Association. The Graigola seam produced high quality coal which had a very low percentage of ash. This feature meant that 'Graigola Merthyr' patent coal fuel was used by many important foreign rail and steamship companies. The plant was closed in 1958⁷. The plant was a maker of 'patent fuel', or 'preserved coal' - a mixture usually comprising small coal (preferable steam coal) mixed with distilled coal tar pitch and compressed into blocks via moulds (briquetting). According to published information the classic pitch bound block briquette made in South Wales consisted of blending coals. That is steam coal with bituminous, so that the block would tend to cake as it burned and

⁶ <http://anws.llgc.org.uk/>

⁷ <http://www.welshcoalmines.co.uk/forum/read.php?14,29193>

minimised crumbling. A typical briquette would contain Bituminous coal - 25%, Steam coal – 45%, Dry Steam coal – 22% and Pitch – 8%.

- **Coal storage** – Available aerial photographs show that the Site was used for coal storage in 2002 and then again in 2005-2006. The area to the east continued to be used for coal storage until at least 2010/11.
- **Scrap metal storage** – According to the archive photographs from 2010-2011, the Site has previously been used for the storage of scrap metal. It is unclear whether processing of materials was undertaken on-site.

The following potentially contaminative activities have been identified as having taken place on-Site (*Table 3.1*).

Table 3.1: Potential On-site Contamination Sources		
Land Use	Description	Potential Contaminants
In-filled docks Historic	Work began on the King's Dock (north of the Site) in 1905 to meet the growing demand of Tinplate exports from the local area. Construction was complete by 1909. The area is composed of infilled/reclaimed land.	Metals and Metalloids, Phenols, chlorides, sulphates, sulphides, Polycyclic Aromatic Hydrocarbons (PAHs), coal/coke, asbestos, cyanides <i>etc.</i>
Graigola Merthyr Patent Fuel Works Historic	The plant was located on-site between the late 19th century until the late 1950s. The plant was a maker of 'patent fuel', or 'preserved coal' - a mixture usually comprising small coal (preferable steam coal) mixed with distilled coal tar pitch and compressed into blocks via moulds (briquetting).	Ammoniacal liquors, coal tar, spent oxide, foul lime, metals, coal dust, PAHs, hydrocarbons <i>etc.</i>

Table 3.1: Potential On-site Contamination Sources		
Land Use	Description	Potential Contaminants
Railway Lines Historic	A review of the available historic maps shows the presence of railway lines across the Site associated with the Graigola Merthyr Patent Fuel Works.	Possible iron and steel wastes used as fill material. Atrazine and simazine herbicides used as herbicides, PCBs used in transformers. Diesel and other organic hydrocarbons associated with oils, fuel and grease. If ash was used as fill material this may have PAHs, phenols and sulphates associated with it. Asbestos from lagging.
Metal Waste Storage Historic	Storage of scrap metal.	Metals and metalloids, inorganics, organics, asbestos, radioactive components etc.
Coal Storage Historic	Storage of coal.	Metals and metalloids, inorganics, PAHs, pH, sulphate

The key stages in the Site's development are shown in *Figure 3.3*. The extended permit site boundary (post variation) is shown in red.

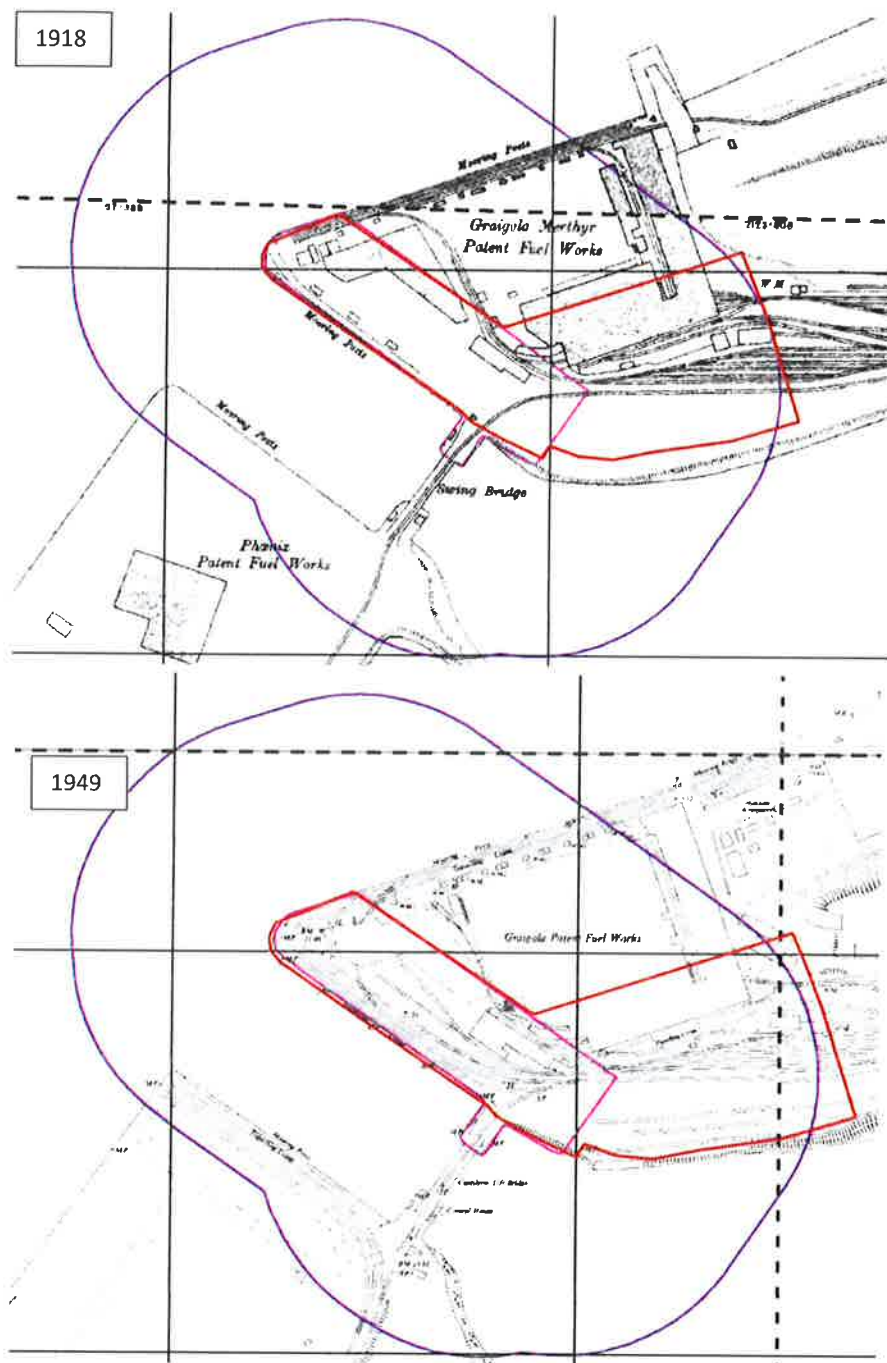


Figure 3.3: Key stages in the Site Development

Ordnance Survey 1:2,500 scale maps with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright
 Earth & Marine Environmental Consultants Ltd, Licence No. 100050755

A web-based search of the City and County of Swansea planning records was undertaken on 6th September 2017. No planning applications, appeals or enforcement records are associated with the Site (from 1st January 2000). However, there two applications were identified associated with the adjacent land area:

- 2009/0354 | Expansion of existing operations to create a waste reclamation and recycling centre (renewal of planning permission 2006/2728 granted 23rd April 2007) | Waste Reclamation and Recycling Centre, Graigola Wharf, Kings Dock, Swansea. Approved September 2009.
- 2006/2728 | Expansion of existing operations to create a waste reclamation and recycling centre | Waste Reclamation and Recycling Centre, Graigola Wharf, Kings Dock, Swansea. Approved April 2007.

3.2.3 Any visual/olfactory evidence of existing contamination

The Site is brownfield and is almost entirely hardstanding except for small areas of vegetation near to the southern, northern and eastern edges of the Site. No buildings are currently on-site.

3.2.4 Evidence of damage to pollution prevention measures

The fall on the hardstanding is designed to capture all drainage from across the Site within the Scherzer Passage drainage gulley before directing the run-off through a Class 1 full retention separator. The drainage is then discharged to King's Dock via a tidal flap [**Emission Point SW1**].

Celsa will ensure that all waste processing and storage areas are suitably repaired prior to waste acceptance at the Site. The tertiary containment surfaces will be inspected and maintained throughout the life of the permit.

Current site conditions (within the current permitted area) are presented in *Photograph 3.1 - Photograph 3.4*. The condition of the proposed extension area is outlined within *Photograph 3.5*.

Site Condition Report (with baseline reference data)

Swansea Docks, Lockhead, Kings Dock, Swansea

Permit No. EPR/AB3891FT

Celsa Manufacturing (UK) Ltd



Photograph 3.1: *Scrap handling within current permitted area (March 2019)*



Photograph 3.2: *Scrap storage at edge of Scherzer Passage drainage gulley (March 2019)*



Photograph 3.3: *Scrap handling within the current permitted area (March 2019)*



Photograph 3.4: *Weighbridge and waste scanner within current area (March 2019)*



Photograph 3.5: *Tertiary containment surfaces (proposed extension area)*

A full topographic and structural survey of the current Site has been undertaken. The results are outlined in *Annex D*. A visual assessment of the proposed extension will be undertaken and recorded prior to occupation.

3.2.5 Evidence of historic contamination, for example historical site investigation, assessment, remediation and verification reports (where available)

Evidence of a previous intrusive investigation was identified during the Site inspection. Results from this investigation were not made available by the site owner (ABP).

3.2.6 Baseline soil and groundwater reference data

Please refer to *Section 4*.

4 Baseline Soil and Groundwater Data

4.1 Site Application – Baseline Reference Data

The soil and groundwater data presented below is provided as evidence of the baseline conditions at permit issue.

4.1.1 Scope of Works

A targeted intrusive investigation at the Site was undertaken on 6th March 2018 to assess the nature and extent of any existing contamination. The breakdown of the strategy to investigate and assess conditions can be summarised as follows:

- a non-intrusive utility search for the presence of Site services was carried out by obtaining service utility plans and the undertaking of a survey of the Site by an EAME approved service tracing specialist (RP Drilling Ltd);
- the drilling of ten (10) window sample locations to a maximum depth of 5.0 metres below ground level (bgl) by an EAME approved sub-contractor (Cook Ground Investigation Limited);
- the installation of 50mm diameter monitoring wells at four (4) locations to facilitate groundwater monitoring;
- positioning of all intrusive locations using a standalone Leica Global Positioning System (GPS)/Global Navigation Satellite System (GNSS);
- the logging, sampling and on-site screening of soil samples for Volatile Organic Compounds (VOCs) at regular intervals throughout the soil profile using a Photo Ionisation Detector (PID); and
- submission of selected soil and groundwater samples to a UKAS and MCERTS accredited independent laboratory (i2 Analytical Ltd) for the analysis of a range of contaminants, which are likely to be associated with the former/current activities and ground conditions on the Site.

The window sample locations are outlined in *Table 4.1* and *Figure 4.1*. *Figure 4.1* has been revised to show the amended permit boundary (post variation). As the original investigation was rather detailed (for such a small area) combined with the fact that the extended permit boundary has the same (or very similar) historic use no further ground information collection

is proposed *i.e.* it is proposed that the current data (baseline) is representative of the extended permit boundary area.



Figure 4.1: Window Sample Locations (based on GPS/GNSS Survey)

Google Earth Imaging with the permission of Google – Licensed to Earth & Marine Environmental Consultants Ltd.

Table 4.1: Window Sample Locations

EAME Ref.	Easting	Northing	Longitude	Latitude	Elevation (m AOD)
WS01	267388.037	192321.378	-3.916691	51.614051	7.621
WS02	267356.107	192357.14	-3.917166	51.614367	7.017
WS03	267354.883	192375.039	-3.917202	51.614529	6.987
WS04	267334.63	192367.98	-3.917488	51.614452	6.886
WS05	267285.365	192397.049	-3.918206	51.61471	6.298
WS06	267319.083	192401.661	-3.917717	51.614754	6.529
WS07	267315.496	192370.187	-3.917763	51.614474	6.719
WS08	267359.177	192340.249	-3.917117	51.614215	6.753
WS09	267395.428	192342.573	-3.916598	51.614242	7.504
WS10	267295.981	192412.816	-3.918068	51.614847	6.265

4.1.2 Health and Safety

A detailed project specific Health and Safety Plan (HSP) was prepared in advance of the commencement of the investigatory works. The project specific HSP was approved by the Project Director and was provided to all on-site EAME employees. For the avoidance of doubt, EAME staff as a minimum adhere to relevant legislation and best practice, including the Health and Safety Executive Guidance Note HS(G) 47 "Avoiding Danger from Underground Services", and other relevant regulatory and legal requirements *e.g. Health & Safety at Work Act 1974 etc.*

Service tracing and clearance of all Window Sample locations was undertaken by RP Drilling Ltd. All areas were also scanned using Ground Penetrating Radar (GPR) before final sign-off.

4.1.3 Drilling

All drilling and window sample installations were undertaken by Cook Ground Investigation Limited using a small tracked rig (Global Geo Rig). Cook Ground Investigation Limited have over 15 years' experience whilst holding a Level 2 NVQ in land drilling and CSCS Skilled Person qualification.

The well installations were made using <1mm slotted well screen, 1-2mm washed and graded filter gravel and high-quality bentonite sealing materials. All materials were supplied by Cook Ground Investigation Limited. Drilling was undertaken on 6th March 2018.

4.1.4 Headspace Testing

All soil samples were tested by dynamic headspace analysis, for the presence of VOCs using a PID. Dynamic headspace analysis refers to the manual agitation (warming) of a sample to facilitate the volatilisation of organic compounds present in the sample into the headspace above which is then analysed using the PID. The PID screens for a wide range of volatile organic compounds including hydrocarbon compounds and certain chlorinated solvents but does not indicate a specific compound. The measurements obtained by the instrument in parts per million by volume (ppmv) provide a semi-quantitative indication of the concentration of hydrocarbon vapours.

The PID unit used was a MiniRae Lite ATEX supplied by Environmental Science & Technology Ltd (*Table 4.2*).

Table 4.2: PID Details	
Criteria	Description
Instrument	MiniRae Lite ATEX
Supplied by	Environmental Science & Technology Ltd
Lamp	10.6 eV gas discharge lamp
Serial No.	595-002379
Results	Isobutylene (Cylinder LOT: GBH-248-100-12), (Span 100ppm), Bump test 99.8 ppm, zero performed using charcoal filter.
Calibration Date	4 th March 2018
Certificate No.	10043

The results of the headspace testing are outlined in *Table 4.3*.

Table 4.3: Soil Headspace Testing Results

Ref.	Sample Depth	Visual and Olfactory Observations	PID Reading (ppmv)	Laboratory Analysis
WS01	0.5-0.9m	None	0.0	Suite B, ACM
WS01	1.5-1.9m	None	0.0	Suite B, SVOC, VOC
WS03	0.2-0.6m	None	0.0	Suite B
WS04	1.5-2.0m	None	0.0	Suite B, SOM, SVOC, VOC
WS04	3.5-4.0m	None	0.0	Suite B
WS05	1.0-1.4m	None	0.5	Suite B, SOM, SVOC, VOC
WS05	2.2-2.8m	None	0.4	Suite B
WS06	0.2-0.5m	None	0.0	Suite B, ACM
WS06	1.0-1.4m	None	0.0	Suite B
WS07	1.1-1.2m	None	0.0	Suite B
WS07	2.0-2.5m	None	0.4	Suite B, SVOC, VOC
WS08	0.2-0.4m	None	2.6	Suite B, ACM, SVOC, VOC
WS08	1.2-1.5m	None	0.1	Suite B
WS10	1.0-1.5m	None	0.4	Suite B, ACM
WS10	1.8-1.9m	None	0.7	Suite B, SVOC, VOC
WS10	2.5-3.0m	None	0.7	Suite B

Notes:

Suite B – Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium, Copper, Nickel, Zinc, Vanadium, Beryllium, Water, Soluble Boron, Total Cyanide, Monohydric, Phenols, pH Value, TPH - CWG (C5-35), Aliphatic/Aromatic Split (with CWG banding - Aliphatic C5-6,>6-8,>8-10,>10-12,>12-16,>16-21,>21-35) (Aromatic - >C6-7,>7-8,>8-10,>C10-12,>12-16,>16-21,>21-35), Speciated PAHs (USEPA-16), Sulphate (water soluble).

VOC – Volatile Organic Compounds, SVOC – Semi-Volatile Organic Compounds, SOM – Soil Organic Matter, ASB – Asbestos

The peak reading of 2.6 ppmv does not indicate the presence of significant volatile compounds within the soil. No evidence of any hydrocarbon sheen(s) or olfactory evidence of contamination was noted during the drilling of any of the window sample locations.

4.1.5 Sample Integrity

All collected soil and groundwater samples were submitted to an MCERTS and UKAS (ISO 17025) accredited laboratory (i2 Analytical) for chemical analysis. Discussions were held with the laboratory prior to the commencement of any works to determine the quantity of sample required and the containers to be used.

All samples obtained were placed in the appropriate container for the analysis to be carried out and were immediately put into a temperature regulated cool box with frozen cool packs. All samples were given a unique reference number, dated and the information recorded on an appropriate Chain of Custody (CoC) form for dispatch with the samples to the appropriate laboratory.

4.1.6 Soil and Groundwater Analytical Strategy

The analytical strategy was designed by EAME to provide an assessment of the presence of a common range of potential contaminants likely to be associated with the previous uses of the Site. The analytical suites are outlined in *Table 4.4*.

Site Condition Report (with baseline reference data)

Swansea Docks, Lockhead, Kings Dock, Swansea

Permit No. EPR/AB3891FT

Celsa Manufacturing (UK) Ltd

Table 4.4: Analytical Strategy

Analytical Suite	Soils	Groundwater
EAME Suite B Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium, Copper, Nickel, Zinc, Vanadium, Beryllium, Water Soluble Boron, Total Cyanide, Monohydric Phenols, pH Value, Total Petroleum Hydrocarbon TPH - CWG (C5-35) Aliphatic/Aromatic Split (with CWG banding - Aliphatic C5-6,>6-8,>8-10,>10-12,>12-16,>16-21,>21-35) (Aromatic - >C6-7,>7-8,>8-10,>C10-12,>12-16,>16-21,>21-35), Speciated Polycyclic Aromatic Hydrocarbon (PAHs) (USEPA-16), Sulphate (water soluble), benzene, toluene, ethylbenzene, and xylenes (BTEX) and Methyl tert-butyl ether (MTBE)	16 samples WS01 (0.5-0.9m) WS01 (1.5-1.9m) WS03 (0.2-0.6m) WS04 (1.5-2.0m) WS04 (3.5-4.0m) WS05 (1.0-1.4m) WS05 (2.2-2.8m) WS06 (0.2-0.5m) WS06 (1.0-1.4m) WS07 (1.1-1.2m) WS07 (2.0-2.5m) WS08 (0.2-0.4m) WS08 (1.2-1.5m) WS10 (1.0-1.5m) WS10 (1.8-1.9m) WS10 (2.5-3.0m)	3 samples WS04 WS05 WS06
Volatile Organic Compounds (VOCs) Standard i2 Analytical VOC suite. Semi Volatile Organic Compounds (SVOCs) Standard i2 Analytical SVOC suite.	6 samples WS01 (1.5-1.9m) WS04 (1.5-2.0m) WS05 (1.0-1.4m) WS07 (2.0-2.5m) WS08 (0.2-0.4m) WS10 (1.8-1.9m)	3 samples WS04 WS05 WS06
Asbestos (Screen and ID)	4 samples WS01 (0.5-0.9m) WS06 (0.2-0.5m) WS08 (0.2-0.4m) WS10 (1.0-1.5m)	N/A

Table 4.4: Analytical Strategy		
Analytical Suite	Soils	Groundwater
Soil Organic Matter	2 sample WS04 (1.5-2.0m) WS05 (1.0-1.4m)	N/A

4.1.7 Soil Chemical Data

The baseline soil conditions at the Site are outlined within *Annex F*.

4.1.8 Groundwater Chemical Data

The baseline groundwater conditions at the Site are outlined within *Annex G*.

5 Permitted Activities

5.1 Proposed Activity

The waste processing and storage activities meets the description of an installation as defined as a Tier 3 bespoke permit for a mixed metal recycling activity⁸:

- R13 Storage of waste pending any of the operations numbered R1 to R12; and
- R4 Recycling/reclamation of metals and metal compounds

5.1.1 Waste Streams

Waste streams are:

2	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	waste metal
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST

⁸ Environment Agency (2015). Regulatory Guidance Series, No. RGN 2 Understanding the meaning of regulated facility, Version 3.1. May 2015.

16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 06	end-of-life vehicles, containing neither liquids nor other hazardous components
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 22	components not otherwise specified
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste

19 10 02	non-ferrous waste
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (consisting of metal containing wastes only)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 40	Metals

No hazardous waste is accepted on to, processed or stored at the Site.

There are no directly associated activities.

5.1.2 Waste Volumes

The proposed waste volumes are outlined within *Table 5.1*.

Table 5.1: Proposed waste volumes	
Total Waste Input	120,000 tonnes per annum
Ferrous Recovery	112,800 tonnes per annum
Non-ferrous Recovery	3,600 tonnes per annum
Maximum Storage Capacity (at any time)	7,000 tonnes

5.2 Non-permitted activities undertaken

The Site has minor maintenance activities, welfare, sewage storage (cess pit), office facility and a staff car parking area. These are not to be included within the permitted installation.

5.3 Other requirements

Plans showing activity location and layout are provided in *Annex A*.

The facilities environmental risk assessment is outlined within the main technical document *Ref. 019-1691 Celsa Swansea Scrap Yard - Normal Variation Report REV00*.

Annex A: Figures

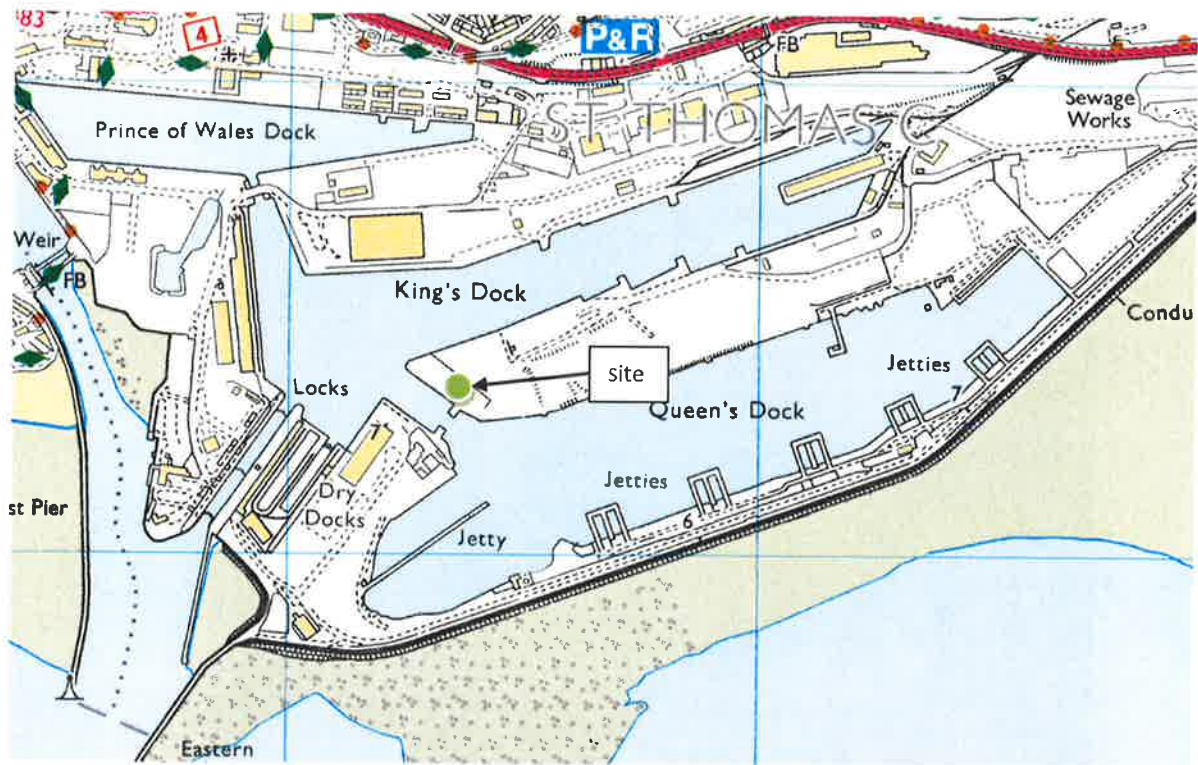


Figure A1: Site location (Ordnance Survey 1:25,000)

Ordnance Survey 1: 25,000 scale map with the permission of The Controller of Her Majesty's Stationery Office, Crown Copyright Earth and Marine Environmental Consultants Ltd, Licence No. 100050755



Figure A2: Installation boundary (outline in green) and surface water outfall, scale as stated

Google 2019

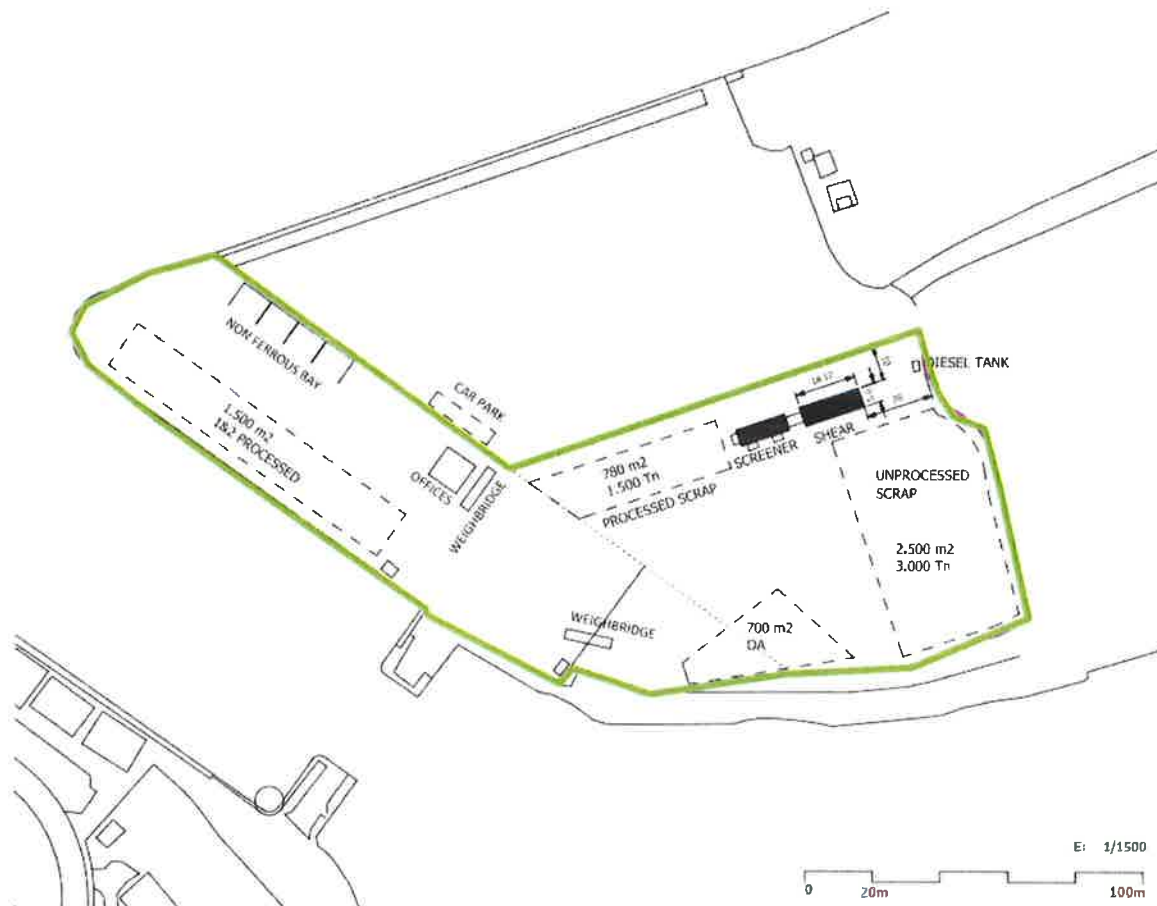


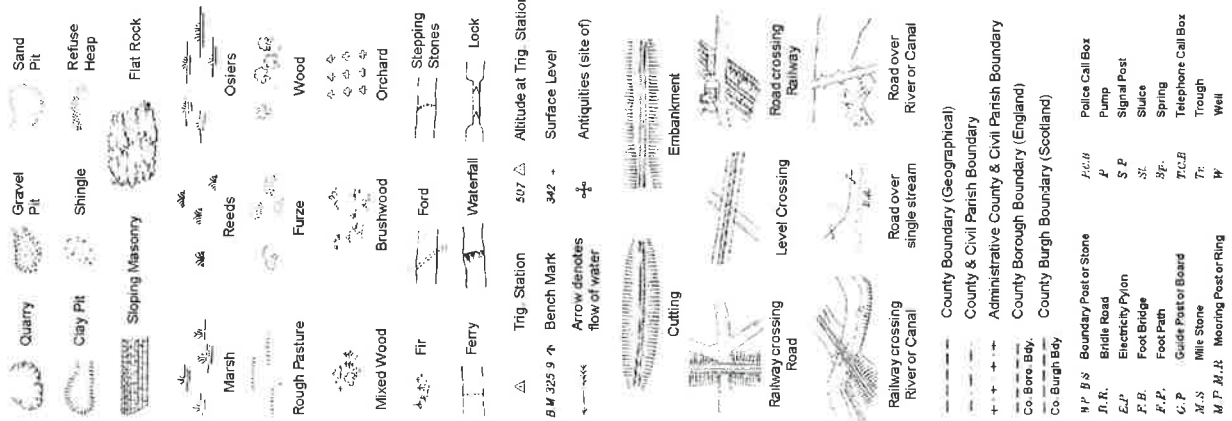
Figure A3: Installation boundary (outline in green) and layout, scale as stated

Celsa, 2019

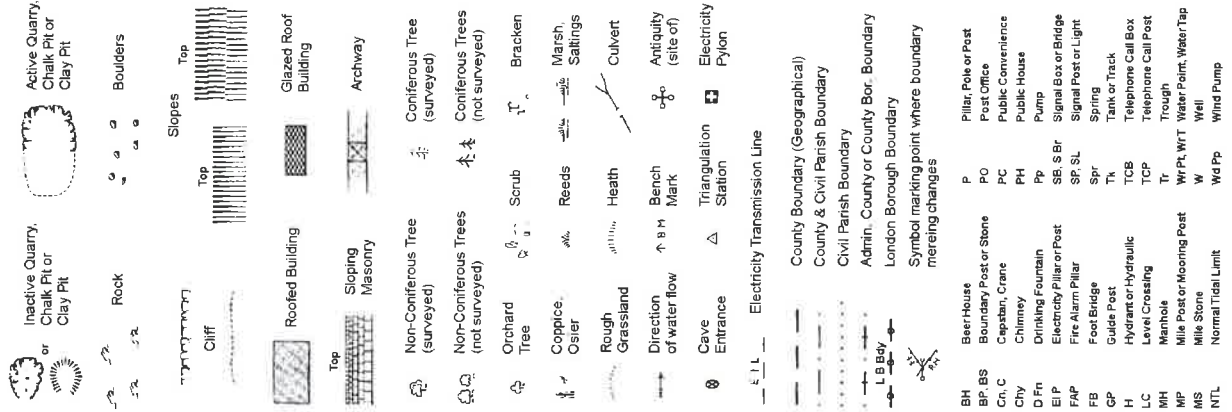
Annex B: Historical Maps

Historical Mapping Legends

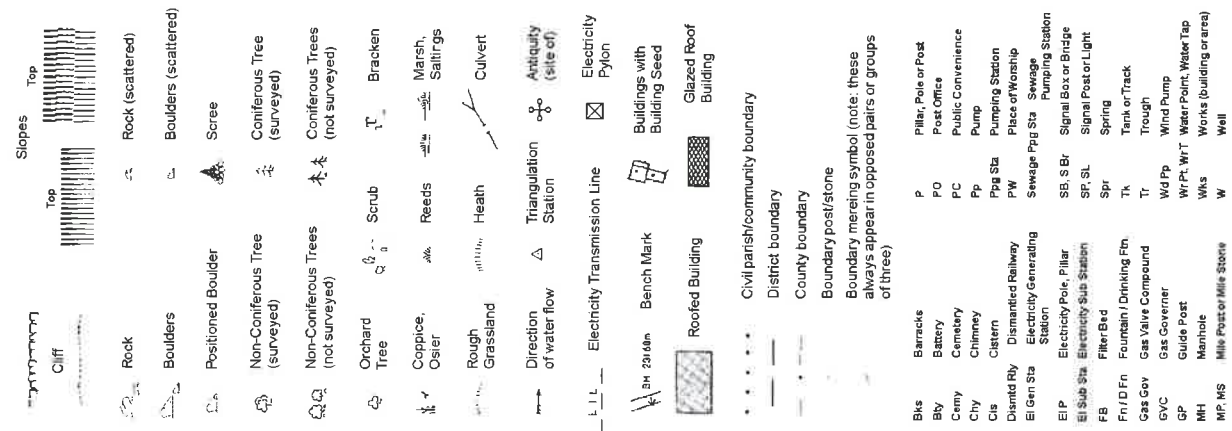
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



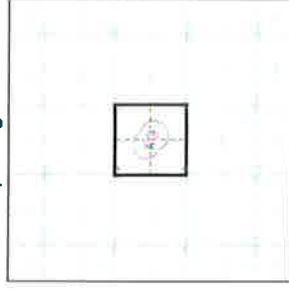
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Fig.
Glomorganshire	1:2,500	1879	2
Glomorganshire	1:2,500	1899	3
Glomorganshire	1:2,500	1918 - 1919	4
Historical Aerial Photography	1:1,250	1946 - 1947	5
Ordnance Survey Plan	1:1,250	1948 - 1949	6
Ordnance Survey Plan	1:1,250	1950 - 1951	7
Ordnance Survey Plan	1:1,250	1960 - 1966	8
Additional SIMs	1:1,250	1966 - 1974	9
Large-Scale National Grid Data	1:1,250	1989 - 1991	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1994	12
Large-Scale National Grid Data	1:1,250	1996	13
Historical Aerial Photography	1:2,500	2014	14

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



100% data accuracy
Data to 2014
Web: www.landmark.co.uk



Glamorganshire Published 1879

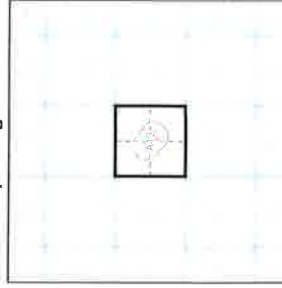
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1856 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is when some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

024_05 1879 1:2,500	024_06 1879 1:2,500
024_09 1879 1:2,500	024_10 1879 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at, Swansea Bay, Swansea

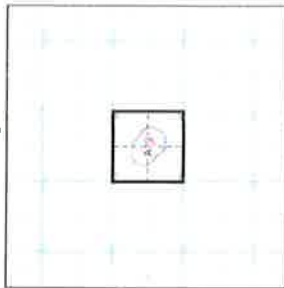


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for mapping in Wales and the 1:2,500 scale covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)

024_05	1899	1:2,500
024_06	1899	1:2,500
024_09	1899	1:2,500

Historical Map - Segment A13

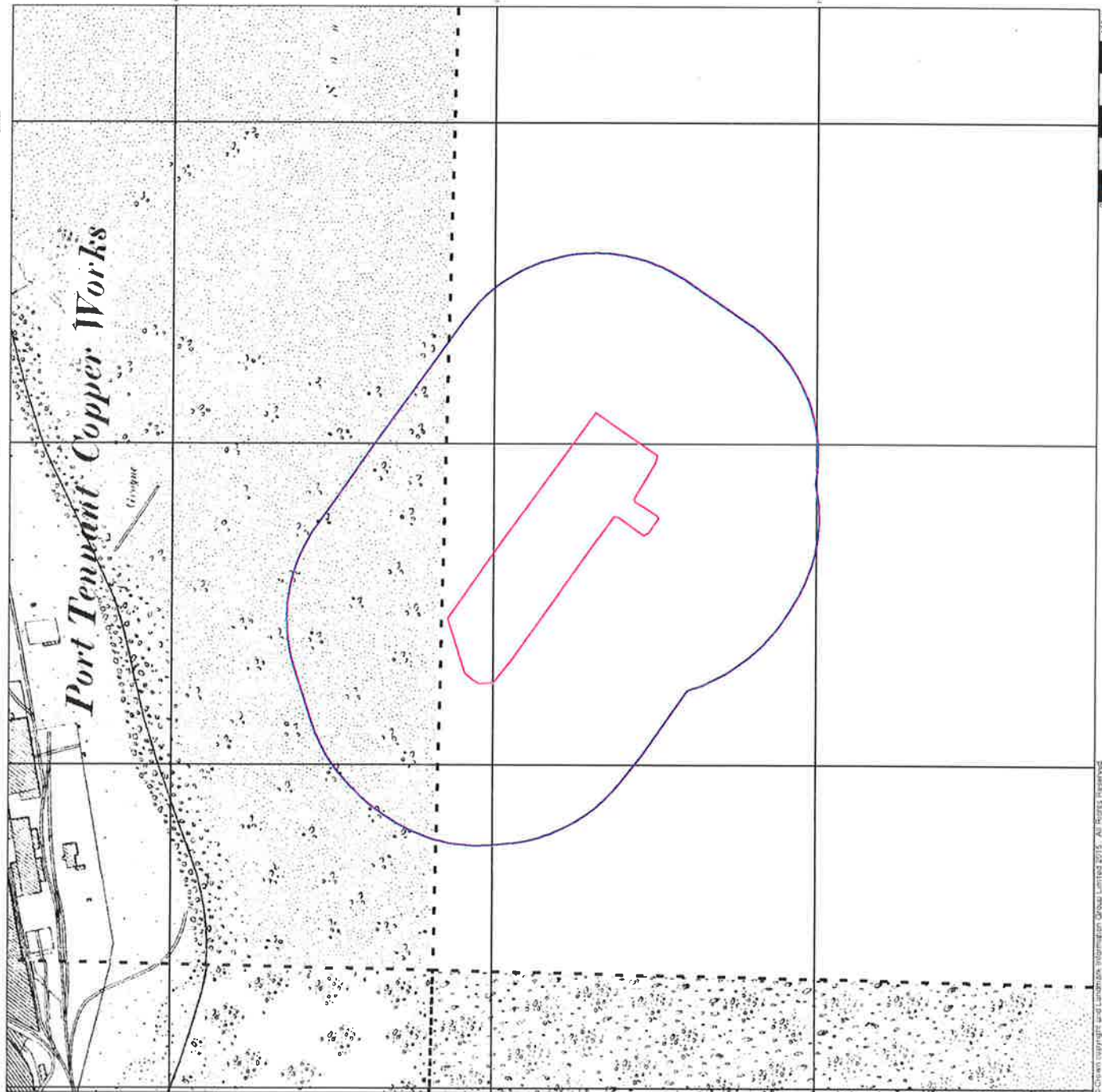


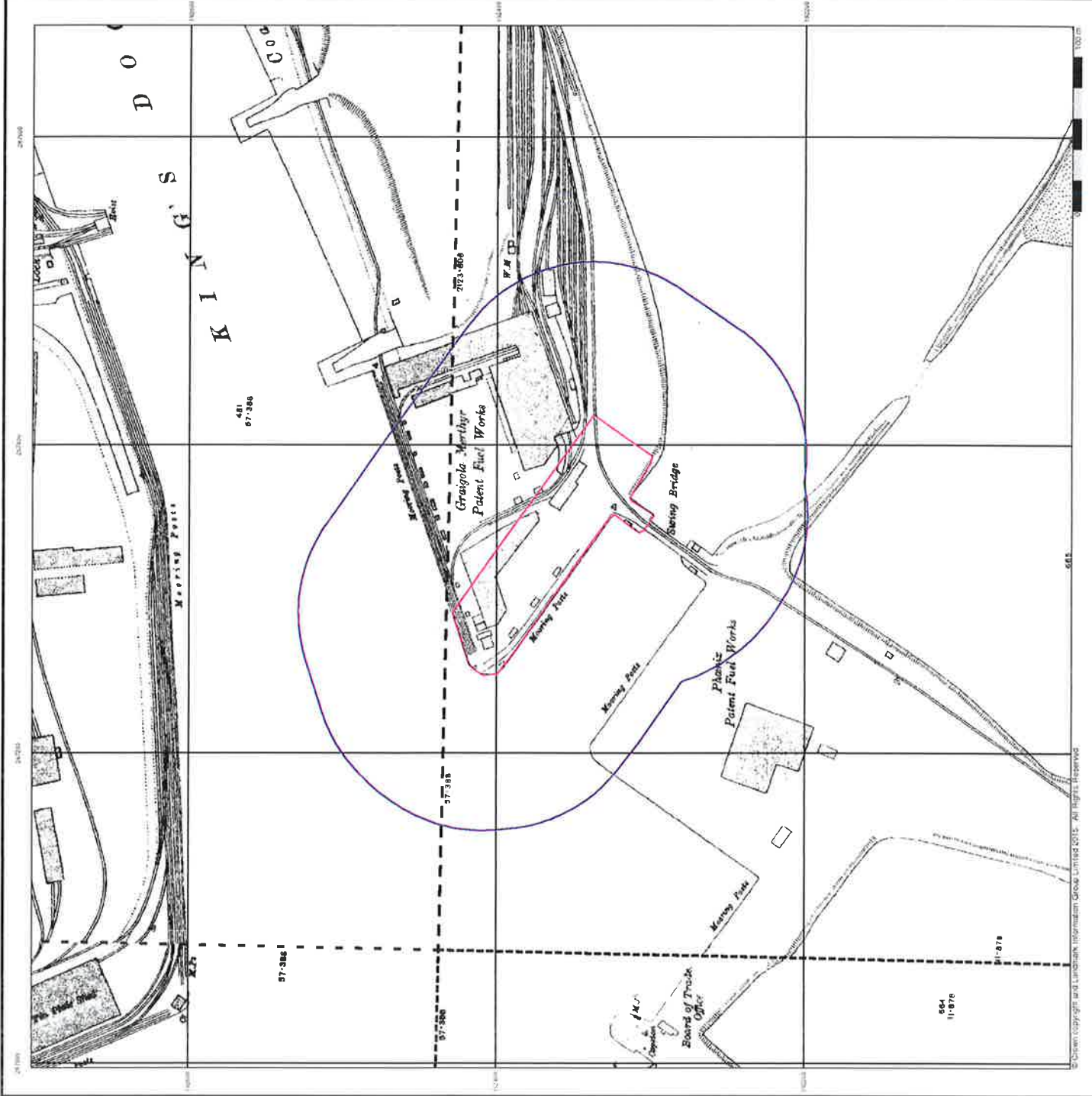
Order Details

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Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea





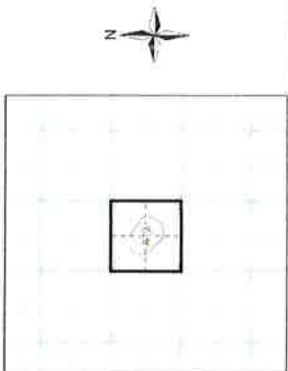
Glamorganshire
Published 1918 - 1919
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

OS 4.05 1915 1:2,500	OS 4.06 1915 1:2,500
OS 4.09 1916 1:2,500	OS 4.10 1916 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 138065595_1.1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at, Swansea Bay, Swansea





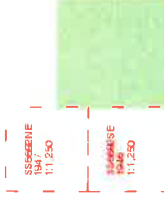
Historical Aerial Photography Published 1946 - 1947

Source map scale - 1:1,250

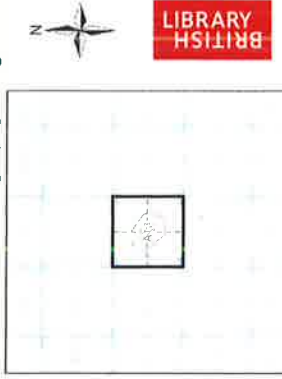
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and were taken by the Royal Air Force photography. They were produced between 1944 and 1951 as a result of the need for a new edition of conventional mapping, due to post-war reconstruction and the preparation of conventional mapping. New security measures in the 1950s meant that every photograph was rechecked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



Tel: 0844 644 5562
Email: sales@landmark.co.uk
Web: www.landmark.co.uk



Ordnance Survey Plan Published 1948 - 1949

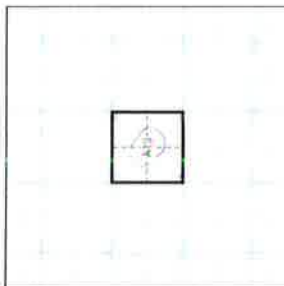
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SS492NE	SS474NW	SS474NE
1:1,250	1:1,250	1:1,250
SS492SE	SS474SW	SS474SE
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at, Swansea Bay, Swansea



Tel: 0844 844 1562
Fax: 0844 844 1561
Web: www.landmark.co.uk

Ordnance Survey Plan Published 1950 - 1951

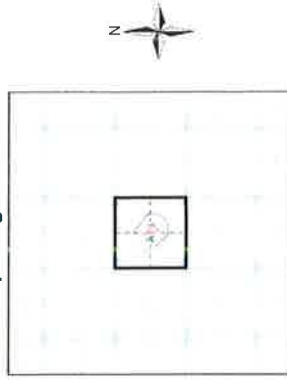
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SS6692	1950	1:2,500
SS6792	1951	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



Ordnance Survey Plan Published 1960 - 1966

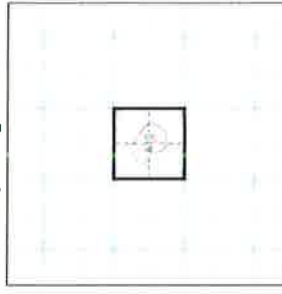
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England and Wales in 1841. The first edition of the 1:2,500 scale was adopted for mapping urban areas and by 1886 covered the whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SS662ENE	SS674NNW	SS674ENE
1960	1960	1960
1:1,250	1:1,250	1:1,250
SS674SW	SS674SE	SS674SE
1960	1960	1960
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



Ordinance Survey Plan Published 1966 - 1974

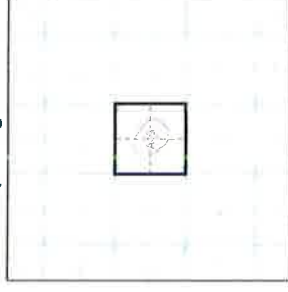
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:12,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SS85/42NW	1974
SS85/42NE	1974
SS85/42SW	1974
SS85/42SE	1974
SS85/42NW	1974
SS85/42NE	1974
SS85/42SW	1974
SS85/42SE	1974

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at Swansea Bay, Swansea

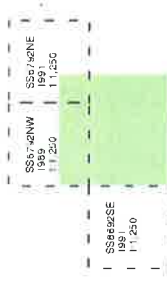




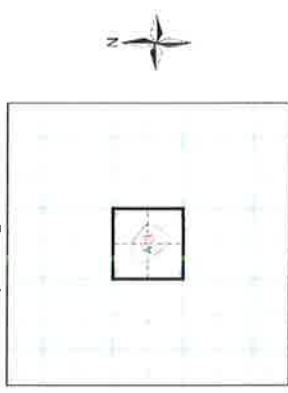
**Additional SIMs
Published 1989 - 1991
Source map scale - 1:1,250**

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 138065595_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



Tel: 0844 844 1952
Fax: 0844 844 1951
Web: WWW.LANDMARK.CO.UK



Large-Scale National Grid Data Published 1992

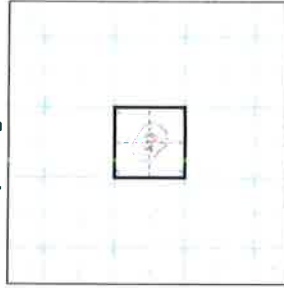
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SS6742NE	SS6742NW	SS6742NE
1992	1992	1992
1:1,250	1:1,250	1:1,250
SS6742SE	SS6742SW	SS6742SE
1992	1992	1992
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

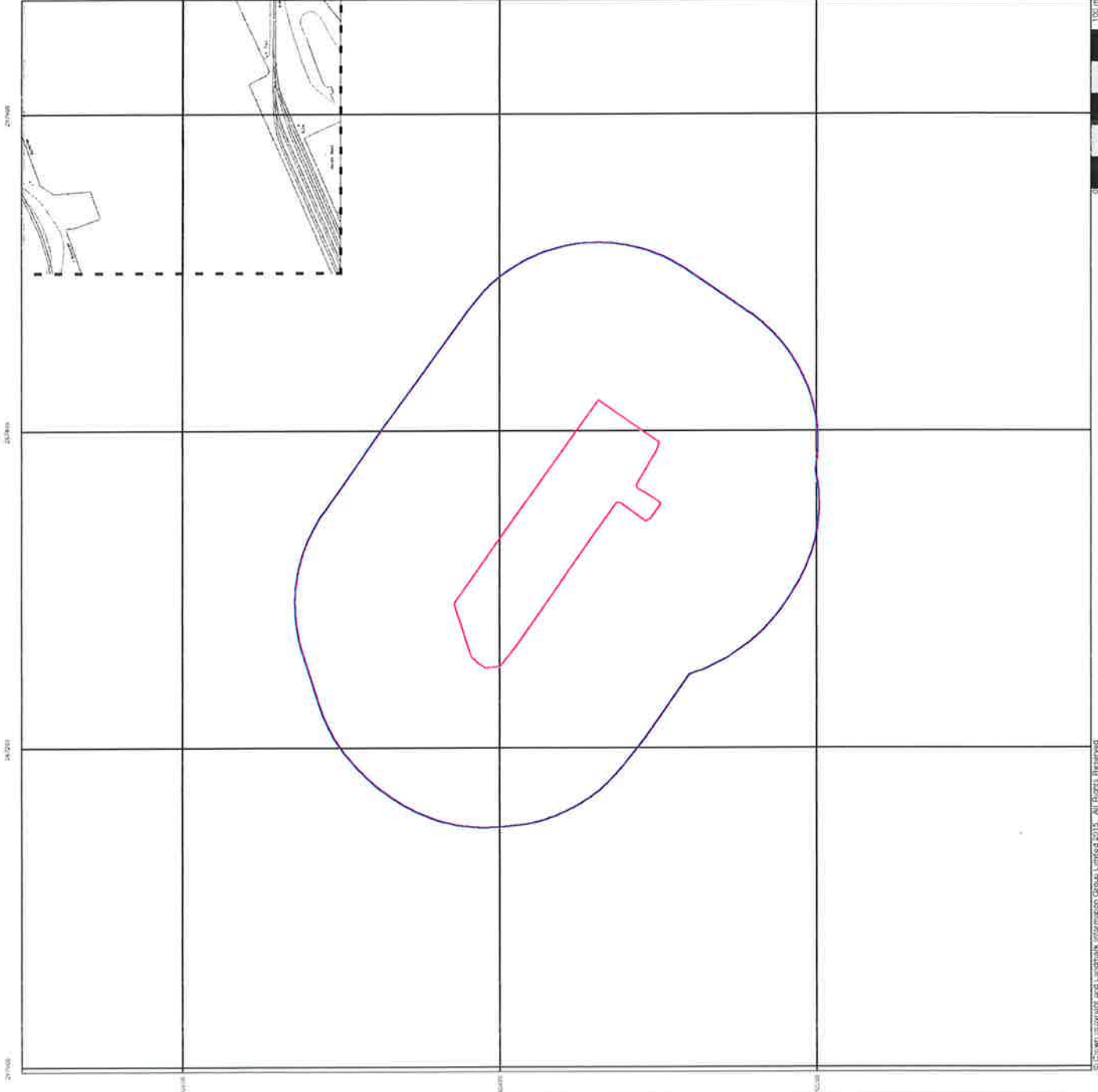
Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



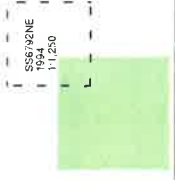
Tel: 0845 844 1000
Fax: 0845 844 1001
Web: www.landmark.co.uk



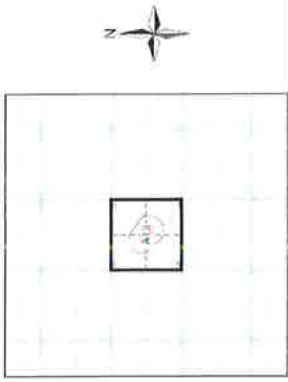
**Large-Scale National Grid Data
Published 1994
Source map scale - 1:1,250**

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1995. These maps were the forerunners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at: Swansea Bay, Swansea



Tel: 0144 844 1952
Fax: 0144 844 1951
Web: WWW.LANDMARK.CO.UK



Large-Scale National Grid Data Published 1996

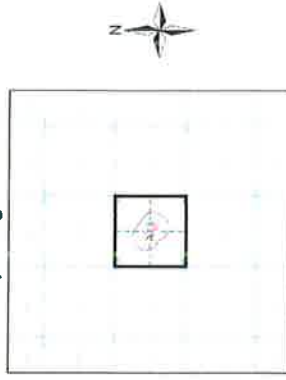
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992 and contains data recorded until 1995. These maps were the first series of digital mapping and provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SS6732NW
1996
1:1,250

Historical Map - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at Swansea Bay, Swansea



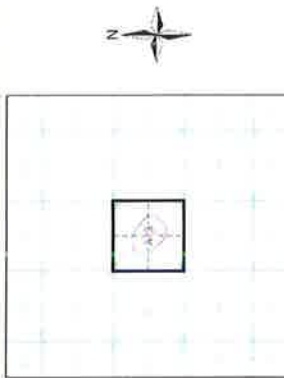
Tel: 0844 844 0667
Fax: 0844 844 0660
Web: www.landmark.co.uk



Historical Aerial Photography Published 2014

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 100

Site Details

Site at, Swansea Bay, Swansea



Tel: 0844 844 1952
Fax: 0844 844 1951
Email: info@landmark.co.uk

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

1:10,000 Raster Mapping

Gravel Pit	Sand Pit	Other Pits	Quarry	Shingle	Orchard	Marsh	Deciduous	Brushwood	Fir	Arrow denotes flow of water	Site of Antiquities	Pump, Guide Post, Signal Post	Surface Level	Sketches Contour	Main Roads	Minor Roads	Raised Road	Railway over River	Level Crossing	Road over River or Canal	Road over Stream	Road over Stream	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)	Rural District Boundary	Civil Parish Boundary
Gravel Pit	Sand Pit	Other Pits	Quarry	Shingle	Orchard	Marsh	Deciduous	Brushwood	Fir	Arrow denotes flow of water	Site of Antiquities	Pump, Guide Post, Signal Post	Surface Level	Sketches Contour	Main Roads	Minor Roads	Raised Road	Railway over River	Level Crossing	Road over River or Canal	Road over Stream	Road over Stream	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)	Rural District Boundary	Civil Parish Boundary

Chalk Pit, Clay Pit or Quarry	Sand Pit	Refuse or Slag Heap	Dunes	Coniferous Trees	Orchard	Bracken	Marsh	Reeds	Saltings	Building	Glasshouse	Pylon	Electricity Transmission Line	Pole	Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line	Narrow Gauge	Geographical County	Administrative County, County Borough or County of City	Municipal Borough, Urban or Rural District, Borough or District Council	Borough, Borough or County Constituency	Civil Parish	Shown only when not coincident with other boundaries	Shown alternately when coincidence of boundaries occurs	BP, BS	Church	Club House	Fire Engine Station	Foot Bridge	Fountain	GP	MP	MS	Police Station	Post Office	Public Convenience	Public House	Signal Box	Spring	Telephone Call Box	Telephone Call Post	Well
Chalk Pit, Clay Pit or Quarry	Sand Pit	Refuse or Slag Heap	Dunes	Coniferous Trees	Orchard	Bracken	Marsh	Reeds	Saltings	Building	Glasshouse	Pylon	Electricity Transmission Line	Pole	Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line	Narrow Gauge	Geographical County	Administrative County, County Borough or County of City	Municipal Borough, Urban or Rural District, Borough or District Council	Borough, Borough or County Constituency	Civil Parish	Shown only when not coincident with other boundaries	Shown alternately when coincidence of boundaries occurs	BP, BS	Church	Club House	Fire Engine Station	Foot Bridge	Fountain	GP	MP	MS	Police Station	Post Office	Public Convenience	Public House	Signal Box	Spring	Telephone Call Box	Telephone Call Post	Well

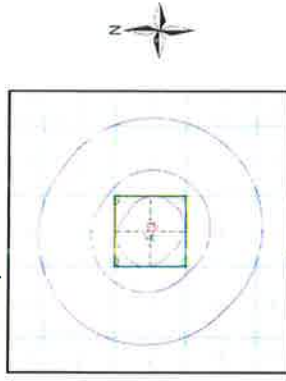
Gravel Pit	Rock	Boulders	Shingle	Sand	Slopes	General detail	Overhead detail	Multi-track railway	County boundary (England only)	District, Unitary, Metropolitan, London Borough boundary	Area of wooded vegetation	Non-coniferous trees (scattered)	Coniferous trees (scattered)	Orchard	Rough Grassland	Scrub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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	3
Glamorganshire	1:10,560	1900	4
Glamorganshire	1:10,560	1921	5
Glamorganshire	1:10,560	1938	6
Historical Aerial Photography	1:10,560	1949	7
Historical Aerial Photography	1:10,560	1951	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1976	10
Ordnance Survey Plan	1:10,000	1979	11
Ordnance Survey Plan	1:10,000	1989	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2005	14
VectorMap Local	1:10,000	2017	15
			16

Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

1:25,000 mapping

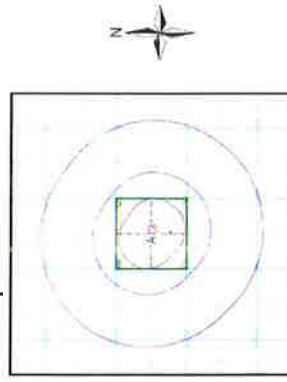
Key to Numbers on Mapping

Historical Mapping & Photography included:



Mapping Type	Scale	Date	Pg
Glumorganshire	1:10,560	1884	3
Glumorganshire	1:10,560	1900	4
Glumorganshire	1:10,560	1921	5
Glumorganshire	1:10,560	1938	6
Glumorganshire	1:10,560	1949	7
Historical Aerial Photography	1:10,560	1949	8
Historical Aerial Photography	1:10,560	1951	9
Glumorganshire	1:10,560	1951	8
Ordinance Survey Plan	1:10,000	1964	10
Swansea	1:10,000	1976	11
Ordinance Survey Plan	1:10,000	1979	12
Ordinance Survey Plan	1:10,000	1989	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
Vector/Map Local	1:10,000	2017	16

Russian Map - Slice A



Order Details
 Order Number: 138065595_1
 Customer Ref: 017-1569
 National Grid Reference: 267330, 192360
 Slice: A
 Site Area (Ha): 0.86
 Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



Glamorganshire Published 1884

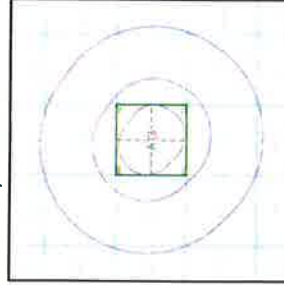
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at Swansea Bay, Swansea



For more information
visit our website
www.landmarkgroup.co.uk

Glamorganshire Published 1900

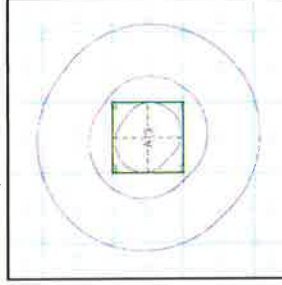
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping with a number of sources. The maps appeared in the 1950's and 1960's, with the 1:10,560 scale maps being updated. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

024NW	1900
1:10,560	
024SW	1900
1:10,560	

Historical Map - Slice A

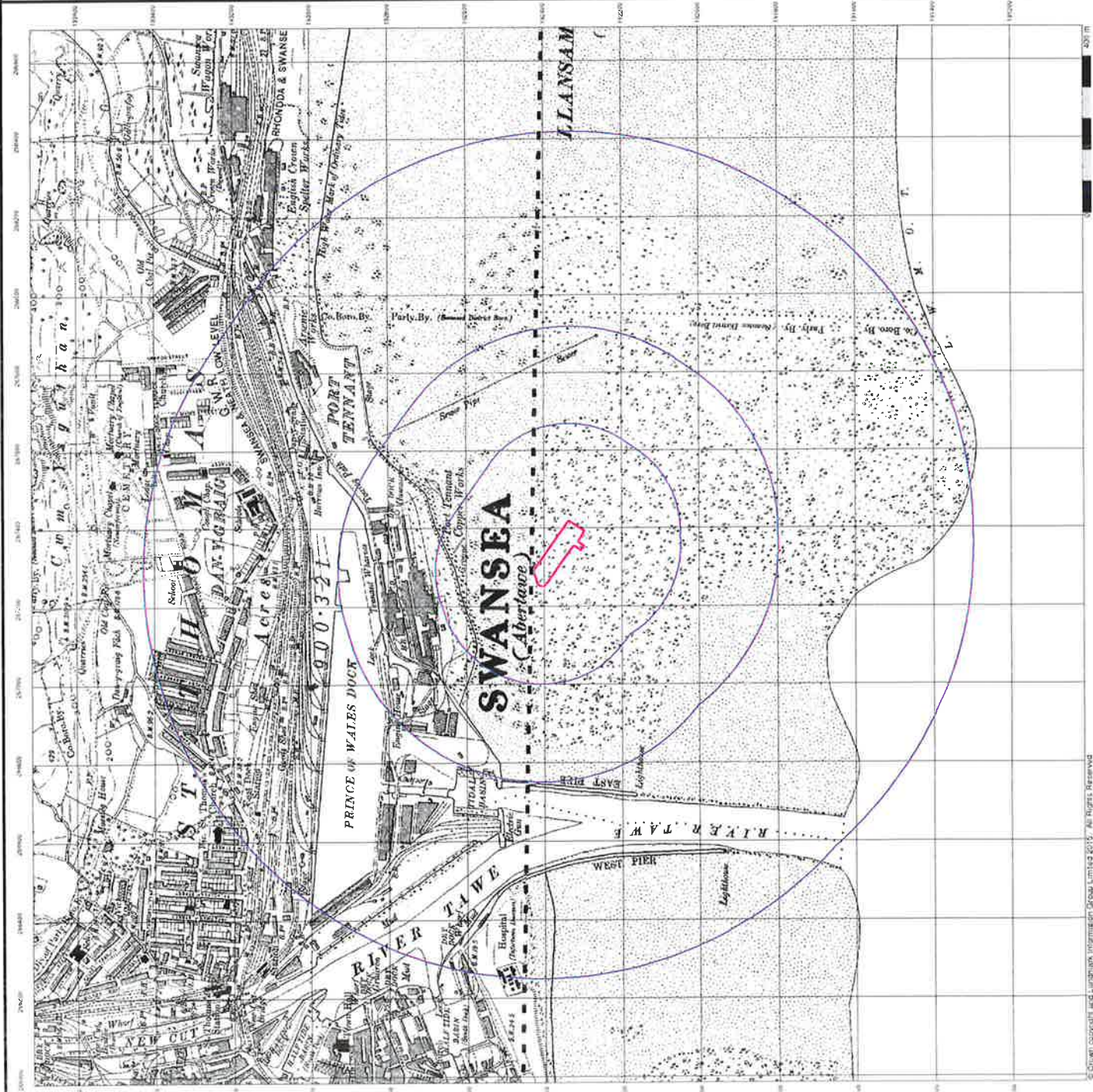


Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea





Glamorganshire Published 1938

Source map scale - 1:10,560

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

Map Name(s) and Date(s)

024NW	1938
1:10,560	
024SW	1938
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at Swansea Bay, Swansea



Tel: 0844 844 7852
Fax: 0844 844 7551
Web: www.landmark.co.uk





Historical Aerial Photography Published 1949

Source map scale - 1:10,560

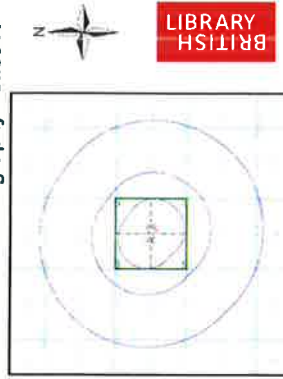
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:10,560 and 1:10,560 from All Purpose photography. They were produced between 1944 and 1951. The photos were taken during the preparation of conventional mapping, due to post war war damage. New security measures in the 1950's meant that every photograph was rechecked for potentially unsafe information with security areas replaced by 'hills or clouds'. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both versions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



0845 844 1052
0845 844 1053
Web: www.earthlink.co.uk

Historical Aerial Photography Published 1949

Source map scale - 1:10,560

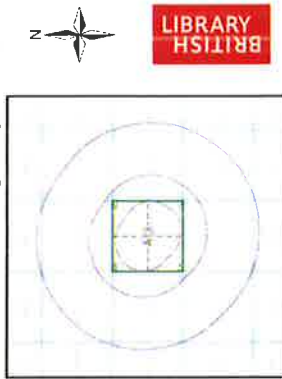
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951, as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was rechecked for potentially unsafe information with security sites replaced by lake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 138065595 1.1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



Glamorganshire Published 1951

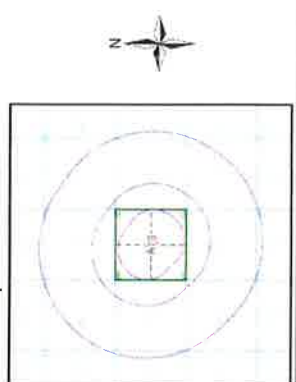
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1954 the 1:10,560 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given hereafter is after some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These are initially overlaid with the National Grid. In 1970, the first 1:10,000 map was produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

024NW 1951 1:10,560	024SW 1951 1:10,560
---------------------------	---------------------------

Historical Map - Slice A



Order Details

Order Number: 138065585_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



Ordnance Survey Plan Published 1964

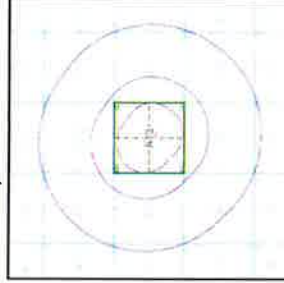
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear to include military camps and other strategic sites removed. These maps were initial overviews of the country, and were not the first. The 1:10,000 maps were produced using the Transverse Mercator. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

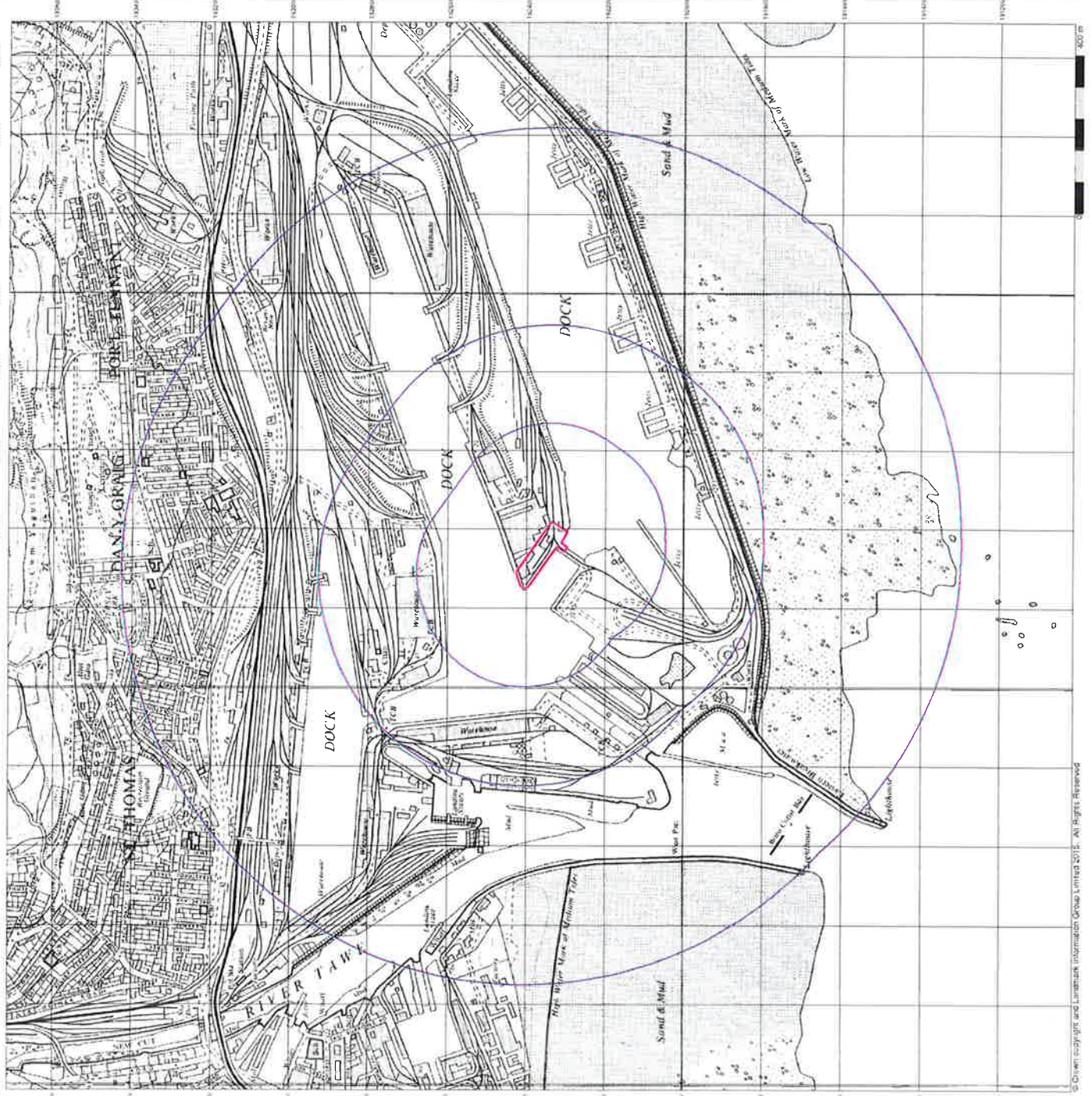


Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1589
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



Swansea

Published 1976

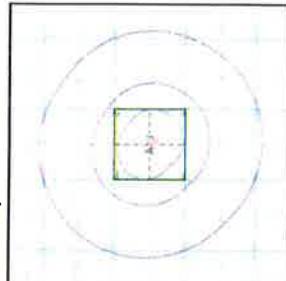
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1959 and 1976, showing towns and cities throughout the U.K. The maps are produced at a 1:25,000 scale, and show detailed land use, with colour-coded areas (for example, built-up areas, non-developed areas). Buildings are indicated by black and important buildings (such as hospitals, post offices, factories etc.) are numbered with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel on the ground. In the sites that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A

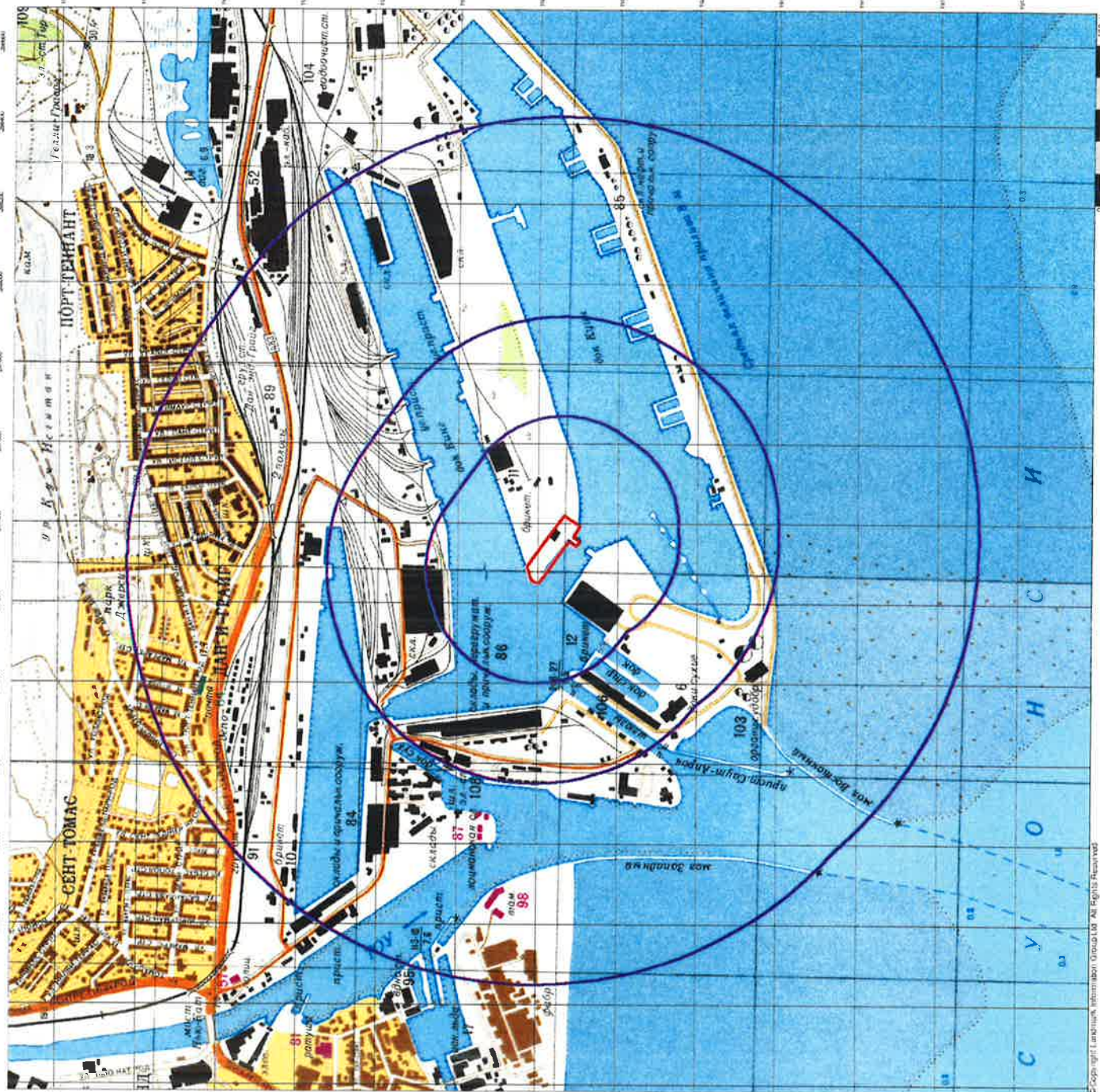


Order Details

Order Number: 138065595_L_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea





Ordnance Survey Plan Published 1979

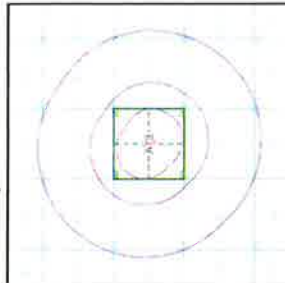
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 13806595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



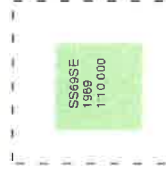
Tel: 0844 844 1002
Fax: 0844 844 1991
Email: info@landmark.co.uk

Ordnance Survey Plan Published 1989

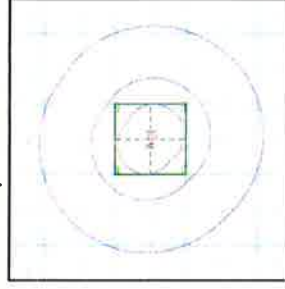
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England & Wales. Since 1840, in 1864 the 1:2,500 scale was adopted for mapping urban areas; these maps are used to update the 1:10,000 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at Swansea Bay, Swansea





10k Raster Mapping Published 1999

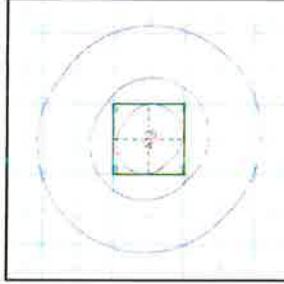
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



Tel: 0844 641 1562
Fax: 0844 641 1563
Email: info@landmark.co.uk





10k Raster Mapping Published 2006

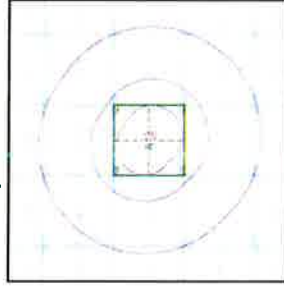
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour maps and have been updated to reflect the current situation. These maps are published at a scale of 1:10,000 and are highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Site: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



A Landmark Information Group Service - 0500 04-Sep-2017 Page 15 of 16



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VectorMap Local

Published 2017

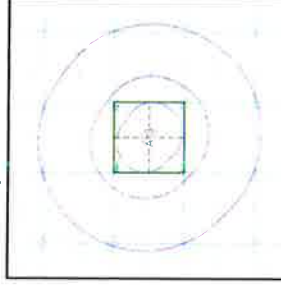
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'background' map. These maps are produced from OS's VectorMap Local, a single geotagged vector dataset covering the whole of Great Britain, that has been designed for large-scale information services at 1:10,000 scale (covering major towns and cities), 1:25,000 scale (smaller towns, villages and developed rural areas), and 1:100,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A

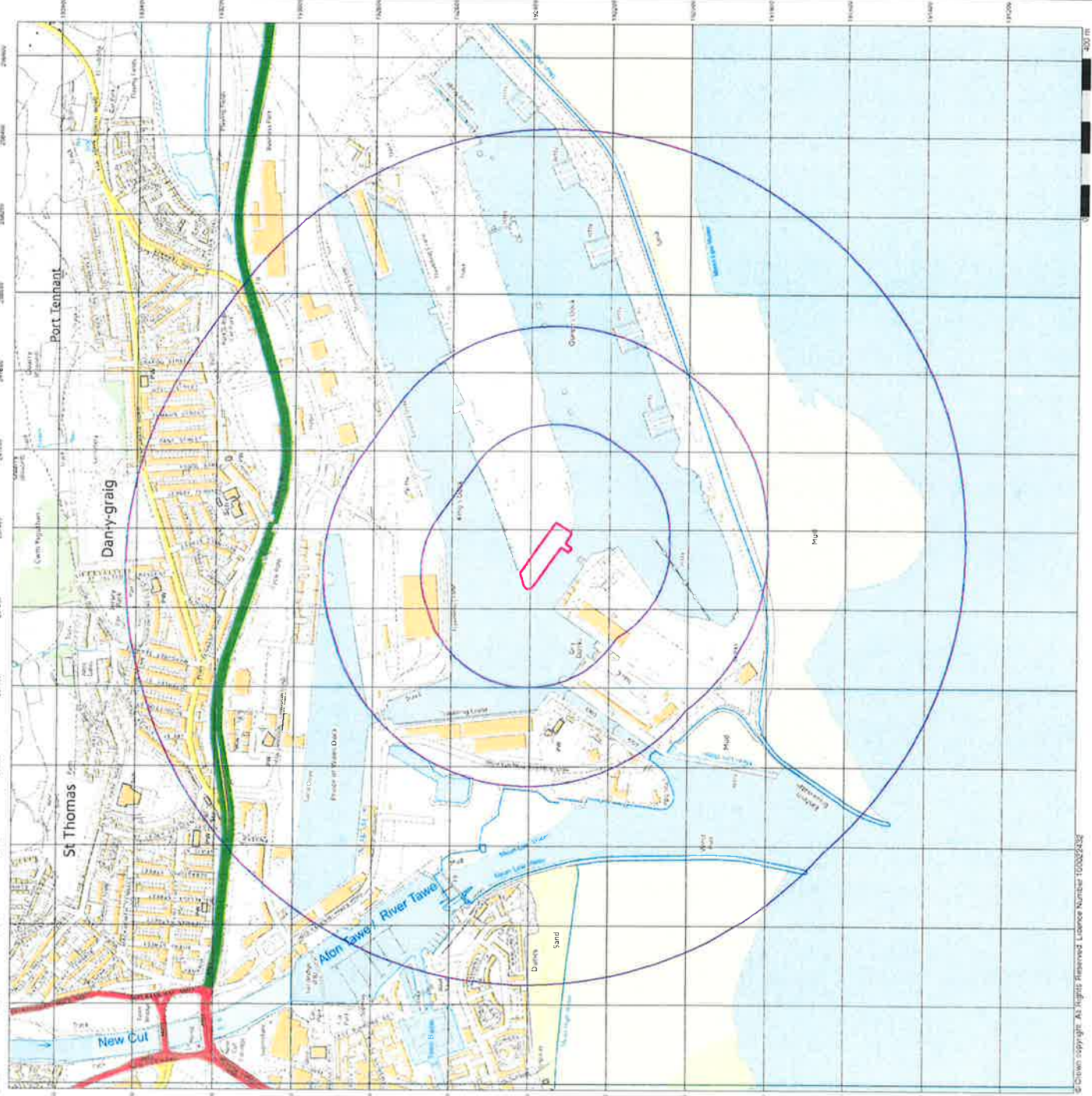


Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



CHAS. E. GOAD, LTD.
CIVIL ENGINEERS

EXPLANATION OF SIGNS USED ON INSURANCE PLANS OF TOWNS & CITIES

56 CROUCH HILL
LONDON N. 4.

ABBREVIATIONS

ASB. ASBESTOS
CORR. CORRUGATED IRON
D.I.D. DOUBLE IRON DOORS
DRA. DRAPERY
D. DWELLING
ELECT. ELECTRICIAN
(E.M.) ELECTRIC MOTORS
(ENG.) STEAM ENGINE
FURN. FURNITURE
GAR. GARAGE
(G.E.) GAS ENGINE
H.W. HARDWARE
I.COLS. IRON COLUMNS OR STEEL STANCHIONS
JWL. JEWELLERY
M.C.L. METAL CLAD
M.W. MANCHESTER WAREHOUSE
M.L. MATCH (OR WOOD, LINED)
OIL. OIL & COLOR
(O.E.) OIL ENGINE
P.H. PUBLIC HOUSE
S. SHOP
S.I.D. SINGLE IRON DOORS
S.I.S. SINGLE IRON SHUTTERS
TAI. TAILORS
TENS. TENEMENTS
WG. WIRED GLASS
W.N. WIRE NETTING OVER GLASS

COLORS

BRICK, STONE, OR CONCRETE
WOOD
AREAS CLEARED DUE TO ENEMY ACTION
SKYLIGHTS ON 1 & 2 STORY BUILDINGS
SKYLIGHTS ON HIGHER BUILDINGS
METAL BUILDINGS
TIMBER PILED OR STAKED

WALLS

PARTY WALL 2 STORIES OR OVER, A PROBABLE FIRE CUT OFF
ENTIRE WALL, BUT DOUBTFUL AS FIRE CUT OFF
DEFECTIVE WALL - IMPERFECT
WALL ABOVE, IRON GIRDERS UNDER
WALL SOME FLOORS ONLY (OR WOOD OR PLASTER PARTITION)
ABOVE ROOF 6 TO 1' 6"
— D9 — 1' 6" TO 2' 6"
MATCH OF WOOD LINED
WOOD CLAD WITH CORRUGATED IRON

OPENINGS

PASSAGE UNDER
ON ALL FLOORS
SOME FLOORS ONLY
ALL FLOORS (PROTECTED)
ALL FLOORS (SOME PROTECTED)
SOME FLOORS ONLY (PROTECTED)
ALL FLOORS (SOME PROTECTED)
ALL FLOORS (PROTECTED)
SOME FLOORS ONLY (PROTECTED)
WOOD LOADING DOOR
IRON LOADING DOOR

WINDOWS

ON ALL OR MOST FLOORS
MORE THAN USUAL
OVERLOOKING
NEARLY ALL GLASS
OPENINGS THRO' & WINDOWS OVER
ON SOME FLOORS ONLY
PROTECTED BY WIRED GLASS
PROTECTED BY SINGLE IRON SHUTTERS
PROTECTED BY DOUBLE IRON SHUTTERS
WINDOWS IN FRONT & REAR OF BUILDINGS UNDERSTOOD
UNLESS OTHERWISE SHOWN

FLOORS

1, 2, 3, 3½ ON BUILDINGS ARE NUMBER OF STORIES ABOVE GROUND
(½ = 3 FLOORS & ATTIC)
2 & 2B MEANS 2 STORIES & 2 BASEMENTS EAST & SUB-BASEMENT.

SKYLIGHTS

A LESS THAN 50 SQUARE FEET (SAY 10' 6" OR 7' 6")
OPENINGS THROUGH 2 FLOORS UNDER (EACH STROKE
DENOTES AN OPENING)
WITH WELL HOLE THROUGH 3 FLOORS
LANTERN LIGHT, SIDES ONLY GLASS
OR VENT OR RAISED VENTILATOR

HOISTS & LIFTS

OPEN
OPEN TO STREET
ENCLOSED BRICK
ENCLOSED WOOD OR PLASTER
IRON DOORS SHOWN AS EXPLAINED UNDER "OPENINGS"

ROOFS

ASB. ASBESTOS
C. CONCRETE
CORR. CORRUGATED IRON
T. TILE
PROFILES
WITH NORTH LIGHTS

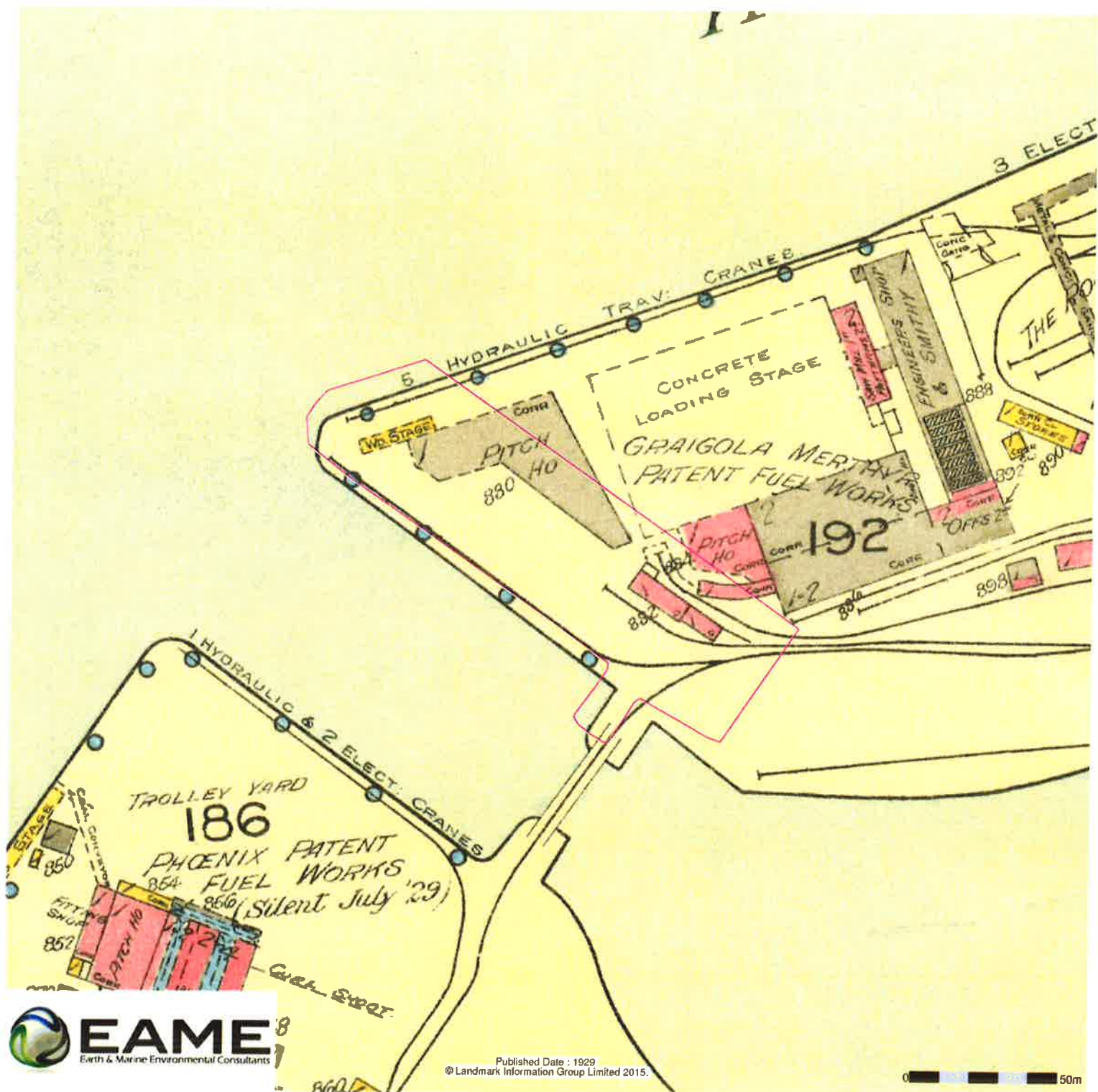
SUNDRIES

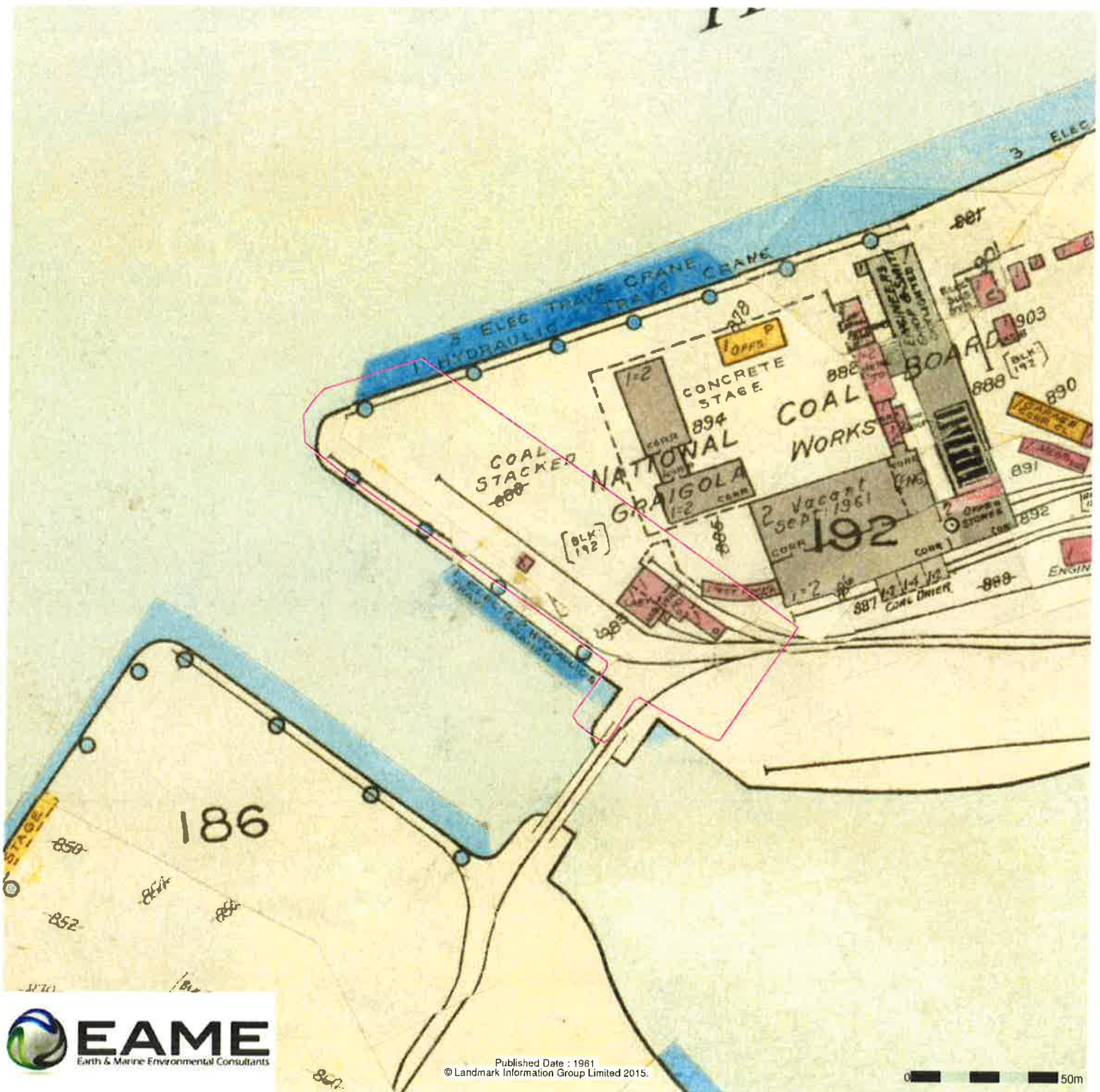
STEAM BOILERS
BOILER SET IN BRICK
FACTORY CHIMNEYS
(ENG.) STEAM ENGINE
OVERHANGING WOOD CORNICE
FIRE ALARM BOX
ON KEY PLAN
HYDRANT
HYDRAULIC HYDRANT
PRIVATE HYDRANT OR STAND PIPE
DOUBLE HYDRANT
SALT WATER HYDRANT
SPRINKLER OR AUTO ALARM BELL

REFERENCE NUMBERS

NUMBERS PARALLEL WITH STREET ARE EXISTING
STREET N°
20 WHERE TWO SETS OF STREET N° IN SAME BLOCK
COINCIDE, ADDITIONAL ARBITRARY N° ARE GIVEN
TO ONE SET (500 & UPWARDS)
WHERE BUILDINGS TO WHICH THEY APPLIED ARE
DEVOLISHED, STREET & ARBITRARY N° ARE SHOWN
& CROSSED THROUGH ON REVISION
— 48' —
(37')
ARE STREET WIDTHS
ARE HEIGHTS OF GROUND ABOVE ODNANCE DATUM
HEIGHT IN FEET OF ADJOINING BUILDINGS WHERE
STORIES DIFFER IN HEIGHT

SIZES OF WATER MAINS SUPPLYING HYDRANTS





Annex C: Environmental Database



Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

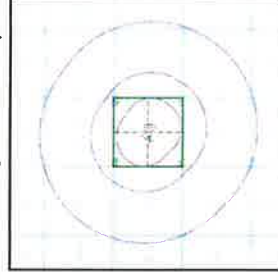
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A

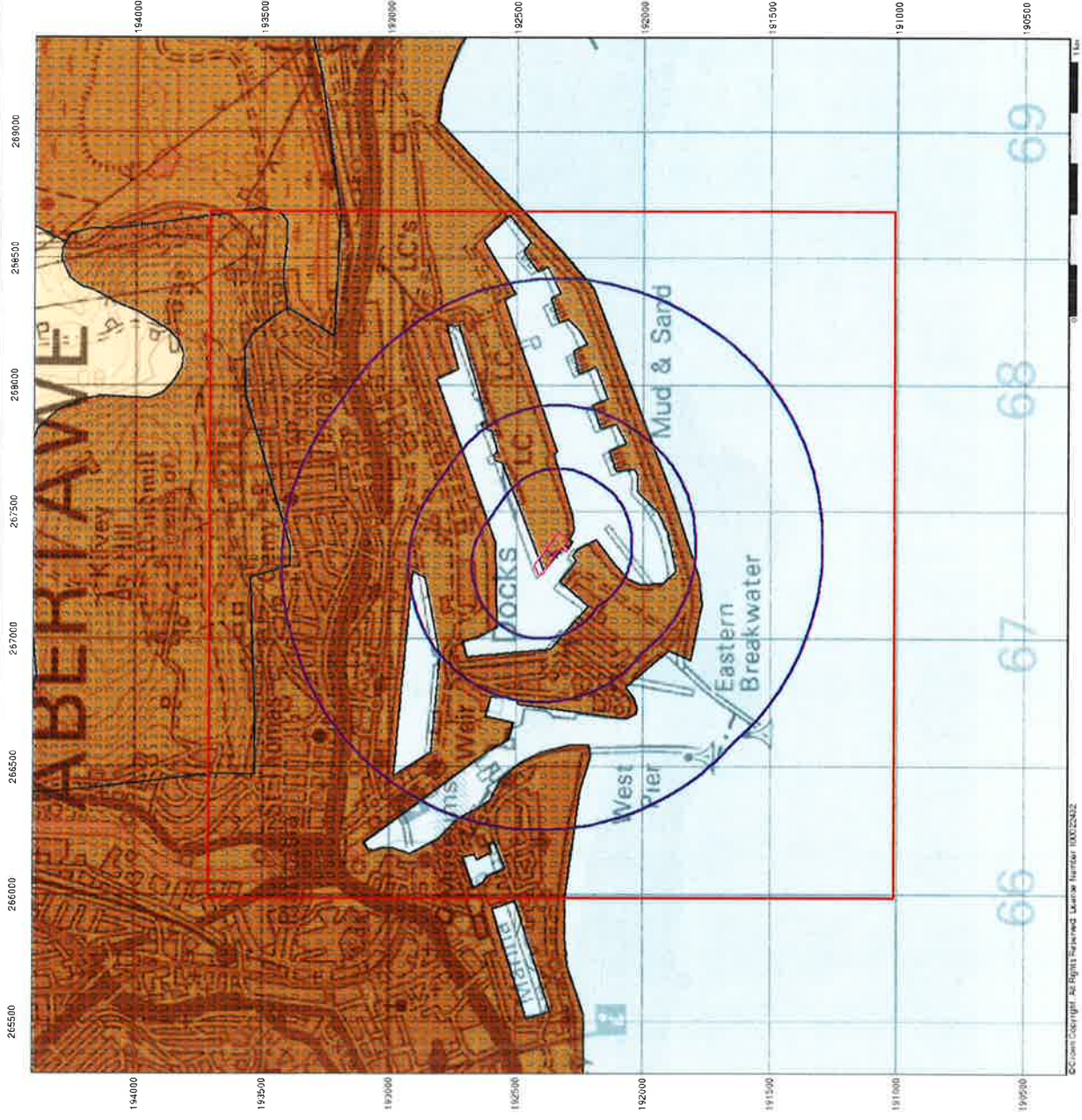


Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



A Landmark Information Group Service v15.0 04-Sep-2017



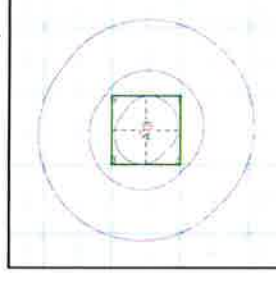
Bedrock Aquifer Designation

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

Agency and Hydrological

Geological Classes
Principal Aquifer
Secondary A Aquifer
Secondary B Aquifer
Secondary Undifferentiated
Unproductive Strata
Unknown
Unknown (Liaise and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

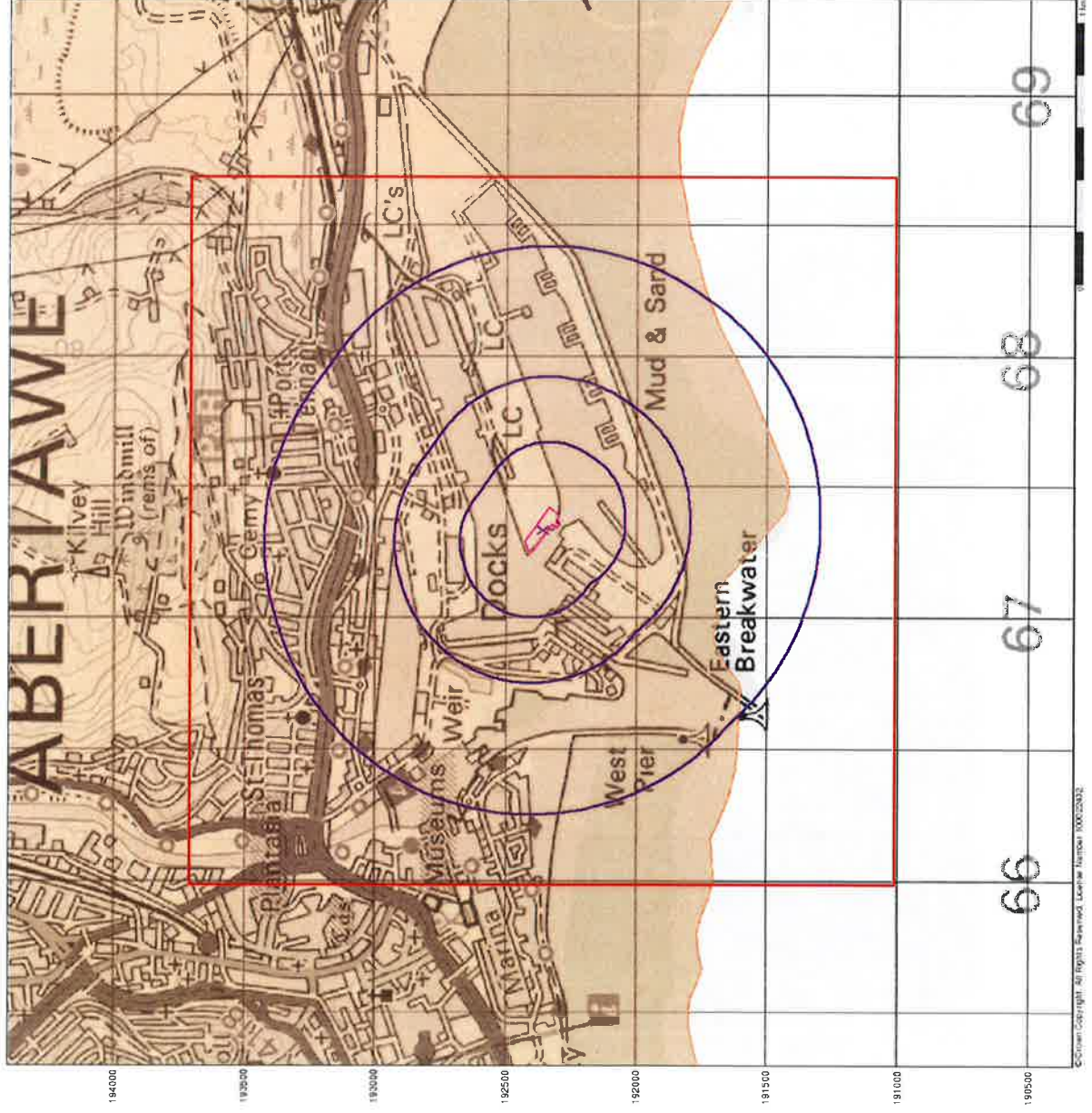
Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



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Superficial Aquifer Designation

General

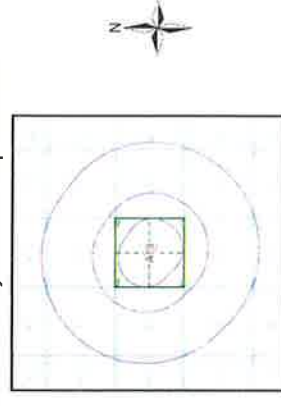
- Specified site
- Specified Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Laves and Lands(p))

Site Sensitivity Context Map - Slice A

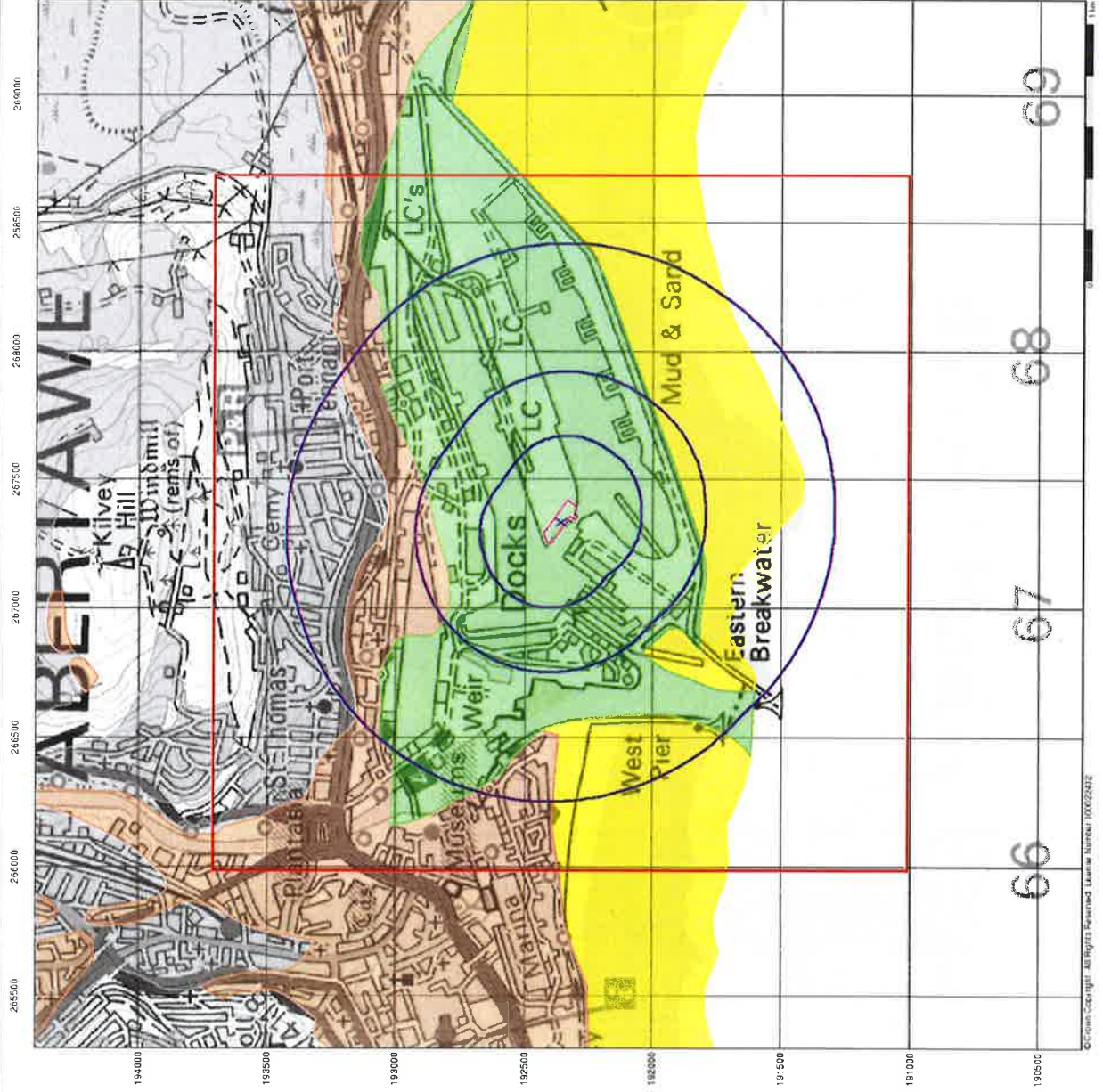


Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea

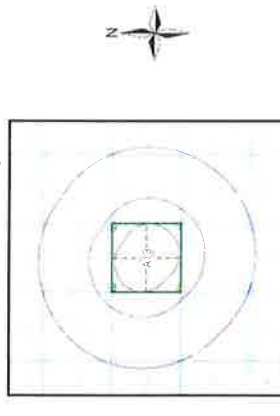




Source Protection Zones

- General**
 - Specified Site
 - Specialised Buffer(s)
 - Beam Reference Point
 - Site
 - 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)
 - Source Protection Zone Boundary

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 138065595_1_1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



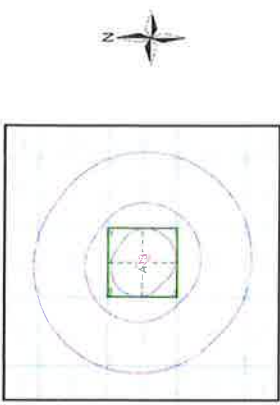
Tel: 0845 214 4822
Fax: 0845 214 8831
www.landmark.co.uk



Sensitive Land Uses

- General**
 - Specified Site
 - Search Buffer
 - Map ID
 - Beacons Reference Point
- Sensitive Land Uses**
 - National Park
 - Nature Sensitive Area
 - Nature Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - World Heritage Site
 - Ancient Woodland
 - Area of Adapted Green Belt
 - Area of Unspoiled Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 138065595, 1.1
Customer Ref: 017-1569
National Grid Reference: 267330, 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at, Swansea Bay, Swansea



100% GROUND
100% GROUND
100% GROUND



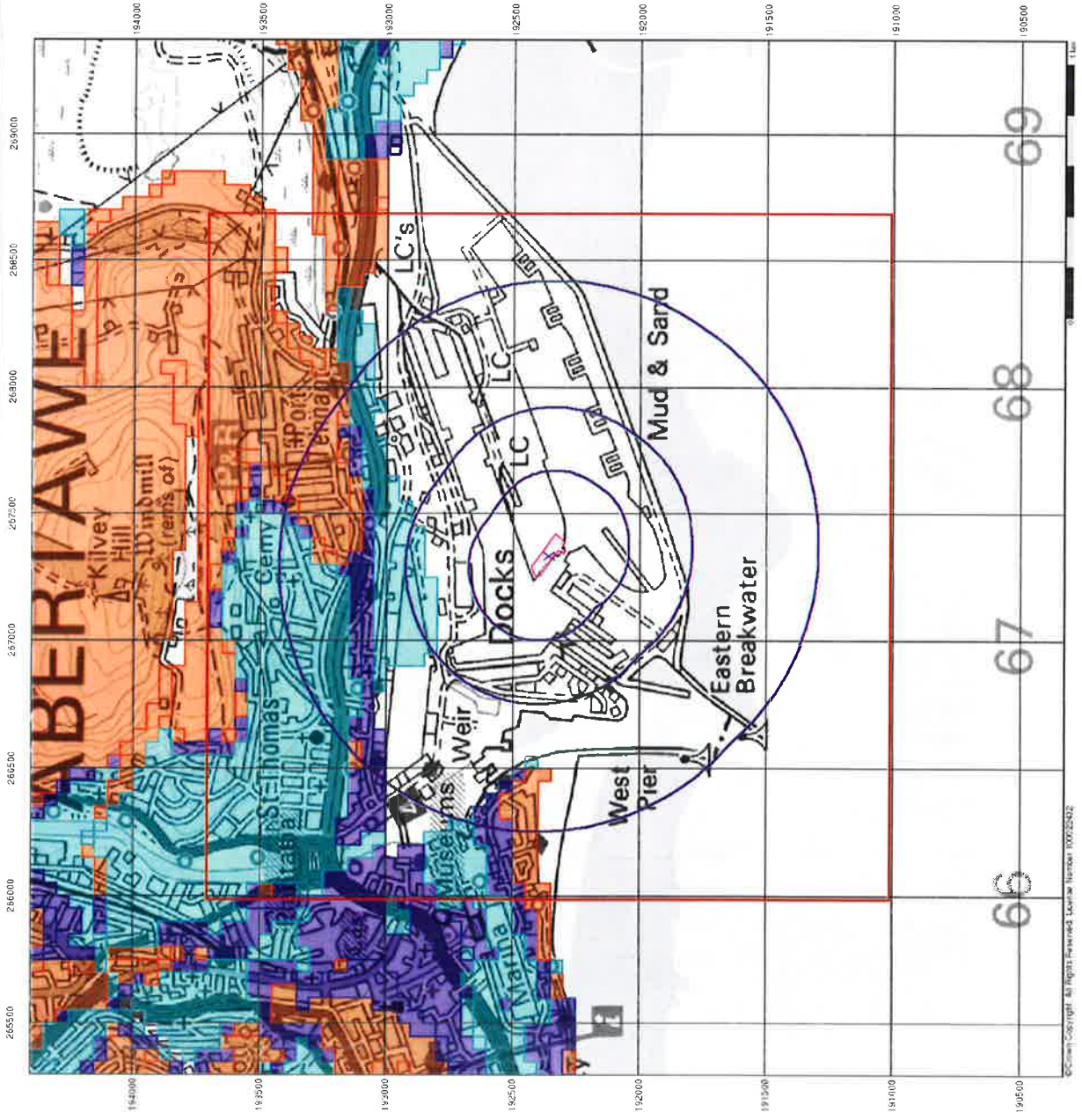
BGS Flood GFS Data

General

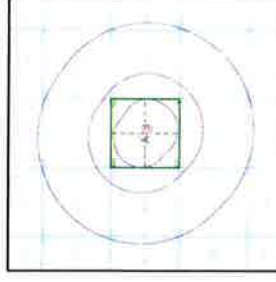
- Specified Site
- Site
- Specified Butters
- Bearing Reference Point

Agency and Hydrological (Flood)

- Unlimited 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: 138065595_1.1
Customer Ref: 017-1569
National Grid Reference: 267330 192360
Slice: A
Site Area (Ha): 0.86
Search Buffer (m): 1000

Site Details

Site at: Swansea Bay, Swansea



Envirocheck® Report:

Datasheet

Order Details:

Order Number:
138065595_1_1

Customer Reference:
017-1569

National Grid Reference:
267330, 192360

Slice:
A

Site Area (Ha):
0.86

Search Buffer (m):
1000

Site Details:

Site at
Swansea Bay
Swansea

Client Details:

Mr M Sylvester
Earth and Marine Environmental
Fron Fawr Farm
Llanfairthaliau
Abergele
Clwyd
LL22 8DJ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	63
Hazardous Substances	69
Geological	70
Industrial Land Use	78
Sensitive Land Use	-
Data Currency	88
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Introduction

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

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

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Report Version v53.0

Summary

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	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		32	47	131
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 53				2
Integrated Pollution Controls	pg 53			3	
Integrated Pollution Prevention And Control	pg 54			1	1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 54		2	4	7
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 56		1	8	9
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 59				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 59				1
Water Abstractions	pg 59		4		1 (*4)
Water Industry Acl Referrals					
Groundwater Vulnerability	pg 61	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 62	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 62	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 62	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 62	Yes		n/a	n/a
Areas Benefitting 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 62				4

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 63		3	4	5
Local Authority Landfill Coverage	pg 65	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 65				2
Potentially Infilled Land (Water)	pg 65	1	1	2	4
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 66			1	1
Registered Waste Treatment or Disposal Sites	pg 67			1	2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites	pg 69			1	
Notification of Installations Handling Hazardous Substances (NIHS)					
Planning Hazardous Substance Consents	pg 69			1	1
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m ("up to 2000m)
Geological					
BGS 1:62,000 Solid Geology	pg 70	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 70	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 73				4
BGS Urban Soil Chemistry	pg 74		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 76	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 76	Yes	n/a	n/a	n/a
Mining Instability	pg 76	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 76	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 76	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 77	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 77	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 78		1	10	50
Fuel Station Entries	pg 83				2
Points of Interest - Commercial Services	pg 83			2	12
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 84			8	18
Points of Interest - Public Infrastructure	pg 86			2	7
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m ("up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGI Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	374	1	267250 192800
1	Discharge Consents Operator: Soil Fertility Durns Ltd Priority Type: Undefined Or Other Location: Soil Fertility Durns Ltd Phoenix Wh. Phoenix Wharf Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0053501 Permit Version: 1 Effective Date: 10th July 1973 Issued Date: 10th July 1973 Revocation Date: 23th December 1993 Discharge Type: Unspecified Discharge Volume: Not Supplied Receiving Water: Soakaway Nr NW Bank Queens Do Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	6	2	267400 192300
2	Discharge Consents Operator: NW Aquaculture Ltd Priority Type: Fish Farm Location: Phoenix Wharf Kings Dock Swansea, Kings Dock Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0293001 Permit Version: 1 Effective Date: 27th June 2001 Issued Date: 27th June 2001 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge Volume: Controlled Sea Environment: Controlled Sea Receiving Water: Kings Dock Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	60	2	267290 192260
3	Discharge Consents Operator: Associated British Ports Priority Type: Airport Services - Sea Transport Location: A135W Kings Dock Swansea Authority: Natural Resources Wales Catchment Area: Stream 54-59 Reference: Bp0055801 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 11th January 1993 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Kings Dock Receiving Water: Kings Dock Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (E)	90	2	267500 192300
4	Discharge Consents Operator: Associated British Ports Priority Type: Undefined Or Other Location: Swansea Docks - Scheraz Passa Authority: Natural Resources Wales Catchment Area: Stream 54-59 Reference: Bp0055802 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SW (S)	112	2	267300 192200

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Associated British Ports Priority Type: Undefined Or Other Location: Swansea Docks - D Shed Whard D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055888 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 25th September 1992 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (N)	172	2	267300 192600
5	Discharge Consents Operator: Associated British Ports Priority Type: Undefined Or Other Location: Swansea Docks - D Shed Whard D Authority: Natural Resources Wales Catchment Area: Stream 59-59 Reference: Bp0055889 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (N)	172	2	267300 192600
5	Discharge Consents Operator: Associated British Ports Priority Type: Undefined Or Other Location: Swansea Docks - D Shed Whard D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055890 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (N)	172	2	267300 192600
6	Discharge Consents Operator: Associated British Ports Priority Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0151358 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 25th September 1992 Discharge Type: Unspecified Discharge Volume: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SW (W)	182	2	267100 192300



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055809 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055873 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055974 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055875 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055876 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055877 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055878 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600
7	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055875 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 23rd September 1992 Discharge Type: Unspecified Discharge Status: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	191	2	267200 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055880 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055861 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055863 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055884 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055885 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600
7	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055866 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	191	2	267200 192600
8	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055815 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 10th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NE (E)	192	2	267600 192400
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: Stream 59-59 Reference: Bp0055805 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055866 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055867 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055868 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055869 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055870 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055871 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055872 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600
9	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - D Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055873 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	241	2	267100 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - A Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0055816 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	251	2	267100 192200
10	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0151357 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	251	2	267100 192200
11	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: Stream S9-59 Reference: BP0151388 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	271	2	267000 192300
12	<p>Discharge Consents</p> <p>Operator: Support Services - Sea Transport Property Type: Undefined Or Other Location: Kings Dock, Swansea Authority: Natural Resources Wales Catchment Area: Stream S9-59 Reference: BP0055801 Permit Version: 2 Effective Date: 12th January 1993 Issued Date: 12th January 1993 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Kings Dock Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	311	2	266940 192390

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - A Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0055843 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	351	2	266900 192400
13	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - A Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0055842 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	365	2	266900 192300
13	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - A Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0055843 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	365	2	266900 192300
13	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - A Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BP0055844 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	365	2	266900 192300



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0151367 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A18SW (N)	382	2	267200 192800
14	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: Stream 59-59 Reference: Bp0151368 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A18SW (N)	382	2	267200 192800
14	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0151369 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A18SW (N)	382	2	267200 192800
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055953 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	382	2	267000 192700



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055954 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	382	2	267000 192700
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055955 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	382	2	267000 192700
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055956 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	382	2	267000 192700
15	Discharge Consents Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055957 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	382	2	267000 192700

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055858 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055859 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055860 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055861 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055862 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055863 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
15	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - C Shed Wharf D Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055865 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	382	2	267000 192700
16	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Domestic Property (Single) Location: National Coal Board Laboratory, Ferry Port, Kings Dock, Swansea Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055862 Permit Version: 2 Effective Date: 21st January 1993 Issued Date: 21st October 1992 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Not Supplied Environment: Controlled Sea Receiving Water: Kings Dock Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	385	2	267000 192600



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Domestic Property (Single) Location: National Coal Board Laboratory, National Coal Board Laboratory, Ferry Port, Kings Dock, Swansea Authority: Natural Resources Wales Catchment Area: Stream 59-59 Reference: Bp0055902 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Kings Dock Status: Authorisation revoked/Revoked Positional Accuracy: Located by supplier to within 100m</p> <p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Domestic Property (Single) Location: National Coal Board Laboratory, National Coal Board Laboratory, Ferry Port, Kings Dock, Swansea Authority: Natural Resources Wales Catchment Area: Stream 59-59 Reference: Bp0055909 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Kings Dock Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	385	2	267700 192600
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055946 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	265900 192600
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055947 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	265900 192600



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055948 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	266900 192600
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055949 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	266900 192600
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055950 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	265900 192600
17	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks - B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055951 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	399	2	266900 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0151385 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 18th September 1987 Issued Date: 12th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	404	2	265900 192200
18	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0151385 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 21st October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	404	2	265900 192200
19	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0155817 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 12th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A1BSW (NW)	413	2	267100 192800
19	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0155819 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 12th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A1BSW (NW)	413	2	267100 192800

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<p>Discharge Consents</p> <p>Operator: Big Chemicals Ltd Property Type: Mineral Oil Processing Location: Queens Dock Shipping Terminal, Sml, Swansea Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0256004 Permit Version: 1 Effective Date: 2nd October 1995 Revocation Date: 2nd October 1995 Issued Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Swansea Docks Receiving Water: Swansea Docks Status: New Consent by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m</p>	A8NE (S)	414	2	267500 191900
21	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks, B Shed Wharf Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055852 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 25th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	455	2	266900 192700
22	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055832 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 2nd October 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	460	2	266600 192500
23	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055837 Permit Version: 1 Effective Date: 18th September 1987 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Swansea Docks Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	462	2	266900 192100

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055838 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th October 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p> <p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: M&E Amenity Block At Workshops Sw Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055835 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 11th January 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Tawe Estuary Status: Authorisation revoked/revoked Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	462	2	266900 192100
24	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: M&E Amenity Block At Workshops Sw Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055829 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 12th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	469	2	266800 192600
24	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: M&E Amenity Block At Workshops Sw Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055830 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 20th October 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	469	2	266800 192600

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055831 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 2nd October 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p> <p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055840 Permit Version: 1 Effective Date: 18th September 1987 Issued Date: 18th September 1987 Revocation Date: 12th October 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Swansea Docks Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	489	2	266800 192800
24	<p>Discharge Consents</p> <p>Operator: Ficon (South Wales) Ltd. Property Type: Undefined Or Other Location: Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0001201 Permit Version: 1 Effective Date: 19th January 1966 Issued Date: 19th January 1966 Revocation Date: 22nd December 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Tidal Basin Prince Of Wales Dr Status: Consent expired Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	489	2	266800 192800
24	<p>Discharge Consents</p> <p>Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: M&E Amenity Block At Workshops Sw Swansea Docks Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0055835 Permit Version: 1 Effective Date: 12th January 1993 Issued Date: 12th October 1992 Revocation Date: 20th April 2011 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Tawe Estuary Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	512	2	266780 192610