

Desk-Top Study and Preliminary Risk Assessment Pembroke Dock Marine Development On Behalf of Milford Haven Port Authority



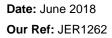












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Amendment Record

Revision No.	Date	Reason for Change	Authors Initials
Revision 1	15/06/2018	Provision of further historical ground investigation data.	PT
Revision 2	26/06/2018	Revised following update to masterplan (Rev H).	AT
Revision 3	08/10/2019	Revised following Client comments	AT

Executive Summary

RPS was commissioned by Milford Haven Port Authority to undertake a Phase 1 Desktop Study (DTS) and Preliminary Risk Assessment (PRA) report to support the Outline Planning Application for the Pembroke Dock Marine Development.

The proposed redevelopment of the Assessment Site comprises the creation of transport corridors, openair lay down areas, increased dockside space and buildings for a variety of engineering purposes. The proposed design also includes infilling of a Graving Dock and timber pond, and widening of a slipway.

Previous site specific reports provided by the Client have been reviewed and summarised. These reports are listed in Section 1.4.

RPS undertook a site reconnaissance visit as part of this report. An annotated plan and photographs are provided, as *Drawing JER1262-DTS-001* and Appendix 2. The visit made the following observations of note; presence of electrical sub-stations, fuel tanks, demolition rubble and oily sheens on rainwater puddles near the scrap yard.

Potential current contamination sources identified at the Assessment Site include sewage works (immediately off-site) storage of fuel oil, scrap yard, presence of electrical sub-stations and spoil heaps (potential hydrocarbons, PCBs and asbestos contamination). Identified potential historical sources include localised storage tanks. railway lines. electrical sub-stations. car dealers/breakers. manufacturing/engineering (potential hydrocarbons, solvents, PCBs, heavy metals, ground gas/vapours and asbestos contamination), historical off-site gas works and a Depot feature to the south (potential ground gas/vapours to migrate to Assessment Site) and chemical contamination of shallow/perched groundwater (potential cyanide, hydrocarbons, solvents, PCBs, heavy metals and vapours).

A risk assessment based on a proposed future commercial use of the Assessment Site has been carried out. It is considered that the maximum risk for risks to human health from chemical contamination of soils/groundwater is low to medium. It is considered that the maximum risk for risks to buildings and structures from aggressive ground conditions and potential explosion/fire risk is also low to medium,. It is considered that the maximum risk is low to medium, for risks to controlled waters.

Current data is not available for all parts of the Assessment Site which are proposed to be developed. Whilst some of the available data is relatively old (2006), given the low level of commercial and industrial activity in the intervening period it is considered that it is likely to have characterised the historical contamination sources and contaminating activities at the Assessment Site. It is recommended that, at the appropriate time, further targeted intrusive investigation is undertaken in the specific areas of the Assessment Site not previously characterised and that the existing data is reassessed against current standards to confirm the need for mitigation with respects to contamination at the Assessment Site. Such investigation would also allow the geotechnical risks associated the potential presence of running sands and solution features in the limestone bedrock to be refined for the areas investigated.

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1 Introduction

1.1 Background

- 1.1.1 RPS Planning and Development ('RPS') was commissioned by Milford Haven Port Authority ('the Client') to undertake a Phase 1 Desktop Study (DTS) and Preliminary Risk Assessment (PRA) report to support the Outline Planning Application for the Pembroke Dock Marine Development.
- 1.1.2 The assessment has been undertaken to a standard that is considered suitable to meet the initial requirements of planning as outlined within the National Planning Policy Framework (NPPF) (Ref. 5).

1.2 Proposed Development

- 1.2.1 The proposed redevelopment of the Assessment Site comprises the creation of transport corridors, open-air lay down areas, increased dockside space and buildings for a variety of engineering purposes.
- 1.2.2 A Draft Masterplan is given as *Drawing JPW1115-04*. This shows that new buildings are proposed; in the northwest (including infilling of the Graving Dock), in the southwest (including infilling of Timber Pond) and in Milforge Site. Additionally, it is shown that an area between Slipway 1 and Slipway 2 will be removed to create a wider slipway. The relevant contamination sources in these areas of development are described below.

1.3 Objectives

- 1.3.1 The objectives of this assessment are to:
 - Assess likely existing ground conditions, including geological, hydrogeological and hydrological conditions to establish baseline conditions and allow an assessment of environmental sensitivity;
 - Identify potential contamination sources, both from historical and current activities, that may have led to contamination of the Assessment Site; and
 - Develop a PRA including a Conceptual Site Model (CSM) to support an assessment of the likely risks associated with potential contamination at the Assessment Site.
- 1.3.2 The methodology followed to produce this DTS and PRA is detailed in *Appendix 1* and is in line with Environment Agency guidance (*Ref. 7*).

1.4 Previous Reports

1.4.1 The following reports have been made available to RPS in relation to the Assessment Site:

- Port of Pembroke Culvert Traverse Survey Letter report, by Sewer Services Ltd on behalf of W S Atkins, ref: 417-3/WFR/vjf, dated 24th May 1999.
- Land Quality Assessment Phase 1: Desk Study, HM Mooring Depot Pembroke Dock, by Enviros Consulting Ltd on behalf of Defence Estates, ref: 12553, dated October 2006.
- Land Quality Assessment Phase Two: Intrusive Investigation, HM Mooring Depot Pembroke Dock, by Enviros Consulting Ltd on behalf of Defence Estates, ref: 12553, dated April 2007.
- Ex-RMAS Site, 2020 Condition Survey Report, by Atkins on behalf of Milford Haven Port Authority, ref: 5056549-2/DG01-3, dated December 2008.
- Gate 4 Pickling Pond Culvert System, Preliminary Inspection Report, by Atkins on behalf of Port of Milford Haven, ref: 5116155-008/DG01_Inspection Report, dated 21st June 2013 (this includes and updates a report from 20th September 2010).
- Site within Gate 1 Pembroke Dock Pembrokeshire, Preliminary Risk Assessment, ground conditions and contaminated land, by RSK Environment Ltd on behalf of Port of Milford Haven Limited, ref: 312994-R1(00), Status: Final, dated March 2015.
- Phase I Ground Investigation Interpretative Report, Pembroke Dock Port, by Quantum Geotechnical on behalf of Milford Haven Port Authority, ref: G624/IR, dated April 2015.
- Pembroke Dock Geotechnical Desk Study, by Royal Haskoning DHV on behalf of Milford Haven Port Authority, ref: PB4337R002, rev. 01/Final, dated 13th November 2015.
- UXO Desk Study & Risk Assessment, Pembroke Dockyard by Zetica Ltd on behalf of Royal Haskoning DHV, ref: P5692-15-R1 rev B, dated 7th December 2015.
- Milford & Pembroke Docks, Ground Investigation Factual Report, by Quantum Geotechnical
 Ltd on behalf of Milford Haven Port Authority, ref: G778/FR, rev 1, dated June 2016.
- Pembroke Dock Redevelopments, Ground Investigation Report, by Royal Haskoning DHV on behalf of Milford Haven Port Authority, ref: PB4337R007D01, rev. 01/Draft, dated 3rd August 2016.

1.5 Limitations of this Report

- 1.5.1 This assessment is limited to the information available at the time of production including published environmental / geological data (*Ref. 3, 4 & 6*), Envirocheck Report (*Ref. 8*), observations made during a site reconnaissance visit undertaken by a consultant from RPS on 24th January 2018, and a review of the available ground investigation reports listed above. The comments given in this report and the opinions expressed are based on a variety of sources which RPS believes to be reliable but cannot guarantee their authenticity or accuracy. There may also be information for the site and its surrounding area that has not been disclosed by previous ground investigation reports and therefore has not been considered in this report.
- 1.5.2 The Applicant acknowledges that further detailed ground investigation will be essential during the detailed design process.

2 Site Location and Description

2.1 Site Location

- 2.1.1 The Assessment Site is located in the town of Pembroke Dock in Pembrokeshire, South West Wales, approximately 4 km northwest of Pembroke on the southern banks of the River Cleddau. The Assessment Site is located at the approximate grid reference SM 96006 03670, and the approximate postcode is SA72 6TD.
- 2.1.2 The Assessment Site is accessed from Meyrick Owen Way. Pembroke Dock railway station is located approximately 0.65 km to the east of the Assessment Site.
- 2.1.3 The Assessment Site is approximately 30 hectares in size and is roughly rectangular in shape.
- 2.1.4 The site layout is shown on *Drawing JER1262-DTS-001*.

2.2 Site Setting

- 2.2.1 The Milford Haven Waterway is present to the north, and west. The Assessment Site is bounded by residential areas to the south and east. The Assessment Site is bounded by a sewage works to the west. The Assessment Site is currently used for a variety of commercial/light industrial land uses including marine engineering and a ferry terminal.
- 2.2.2 Further details on land use are given in the table in Section 3.

2.3 Site Reconnaissance

- 2.3.1 A site reconnaissance visit was undertaken by an RPS engineer on 24th January 2018. This included discussions with Adrian Rowlands, Engineering Project Manager and Steve Phillips, Port Engineer, from Milford Haven Port Authority.
- 2.3.2 An annotated plan showing the areas covered during the site reconnaissance visit is given as Drawing JER1262-DTS-001. A photographic record is given in Appendix 2.
- 2.3.3 The interview with site staff indicated that the redevelopment would include:
 - infill of the Timber pond;
 - removal of the area between Slipway 1 and Slipway 2 to create a wider slipway; and,
 - infill of the Graving Dock.
- 2.3.4 The Assessment Site is split into a number of different areas, accessed via different gates. The site visit included the area accessed via Gate 1 entrance in the northeast, the area known as the Milforge Site in the south, the area accessed via Gate 4 in the southwest and the area around the Graving Dock.
- 2.3.5 Areas not visited included the active ferry port, and the businesses on land not owned by Milford Haven Port Authority (garage/scrap yard). The interiors of buildings were not inspected. The

area of the active ferry port can be seen on the *Drawing JPW1115-04*, and the scrap yard and garage is labelled on *Drawing JER1262-DTS-001*.

Gate 1 Area

- 2.3.6 Gate 1 provides access to the eastern half of the Assessment Site, and is accessed from Front Street off Western Way, to the northeast of the Assessment Site. Buildings/features currently onsite in this area include:
 - Security gate (see Plate 1) and administration building;
 - Warehouses including Eastern Sunderland Hanger and Western Sunderland Hanger (see Plate 2):
 - An area of sand storage on the quay to the north of the security gate;
 - Skips and waste bins to the north of the security gate (see Plate 3);
 - A double-skinned diesel fuel tank (15,000 Litre capacity), with no evidence of leakage, on the corner of one of the warehouse buildings (see Plate 4);
 - Two empty water tanks, connected to a small structure labelled 'Sprinkler Stop Valve Inside' (see Plate 2);
 - A vehicle washdown area along the eastern boundary, and;
 - An electrical sub-station in the southwest corner of the area accessed from Gate 1.
- 2.3.7 An empty bunded area with plinths provides evidence of the location of a historical fuel tank adjacent to the current tank (see Plate 5).
- 2.3.8 At the time of the site reconnaissance visit, mobile homes and sections of oil processing plant were being stored on hardstanding in the Gate 1 area (see Plate 6). No visual or olfactory evidence of oil was noted from the sections of pipework etc. which are awaiting transfer overseas. Limited areas of soft standing are present, mainly around the margins of the Gate 1 area. The majority of this area is laid to concrete or asphalt which appears to be generally good condition.

Milforge Site

- 2.3.9 The area known as the Milforge Site along the southern boundary of the Assessment Site was visited as part of the site reconnaissance. This area is bound to the north by Whites Farm Way and to the east by Melville Terrace.
- 2.3.10 Buildings/features currently onsite in this area include:
 - Security Gate 4 to the north;
 - Overgrown area of vegetation (see Plate 8);
 - Compacted gravel, demolition material (see Plate 9);
 - Two disused warehouse-type buildings (side by side);
 - An electrical sub-station is present along the boundary with Whites Farm Way; and,
 - Many mature trees.

- 2.3.11 The interview with site staff indicated that Tree Protection Orders are in place in the areas of overgrown vegetation shown on *Drawing JER1262-DTS-001*. Within one of the disused buildings is a boat, and in the other is a pit in the middle of the floor (possibly a vehicle inspection pit for undertaking repairs) (see Plate 10). This pit is not fenced off and wasn't investigated fully for health and safety reasons. The interview with site staff indicated that the demolition material in this area has been moved and mounds flattened (within the Milforge Site) since an investigation was undertaken here in 2016 by Quantum (see Section 5.11). The demolition material includes visually identifiable pieces of asphalt and concrete. Fly-tipped waste was also evident in this area (see Plate 11).
- 2.3.12 A disused tower (a Scheduled Monument) is present to the west (see Plate 7) located outside the application boundary. The interview with site staff indicated that the disused Scheduled Monument once stood on the coastline, and therefore that the land to the north is likely to be reclaimed.

Gate 4 Area

- 2.3.13 Security Gate 4 provides access to the western third of the Assessment Site. Buildings/features currently on-site in this area include:
 - A large square water body in the southwest corner of the Assessment Site (the 'Timber' or 'Pickling' Pond) (see Plate 12 and below),
 - Grassed areas.
 - Mobile home storage,
 - Fuelling point comprising two plastic, bunded, fuel tanks, a control board and a small hut (see Plate 14). No evidence of stains or leaks was observed,
 - An electrical sub-station,
 - An area of burnt ground on one of the grassed areas, circled by corrugated iron sheeting (see Plate 13),
 - Existing businesses,
 - Two slipways ('Slipway 1' and 'Slipway 2') (see Plates 15 and 16). No structures are present in the area between the slipways,
 - The gas supply to the Assessment Site enters into a building south of Slipway 1 and a control valve was observed (see Plate 17),
 - A storage container labelled 'Warning Hazchem' and 'Paint store' is present to the south of Slipway 2 (see Plate 18), and
 - An electrical sub-station is present between Slipway 2 and the Scrapyard and garage (see Plate 22).
- 2.3.14 The Timber Pond has two main inlets/outlets; one along the northern wall (oval-shaped) and another (sluice) along the western wall. These connections are discussed further in Section 5.6. Additional small, presumably surface water outlets were evident, mainly along the eastern wall. The eastern face of the pond slopes down gently.

- 2.3.15 Other entrances through the Dockyard wall around the Assessment Site are present in the southwest corner.
- 2.3.16 The majority of this area is laid to concrete or asphalt which appears to be generally good condition. Surface water drainage was present and appeared to be unobstructed where observed.
- 2.3.17 The walls facing the estuary were visually assessed at low tide, from above, and no signs of contamination were observed (see Plate 19).

Graving Dock

- 2.3.18 To the east of Slipway 2 is a fenced off disused dry dock, also called the Graving Dock (see Plate 20). To the south of here is an area known as the 'Triangle' which is an area of land not controlled by the port authority. Businesses on this area include a scrap yard and garage. A listed building is present in this area. Oily sheens were observed on rainwater puddles outside of the scrap yard (see Plate 21). Ground surface around the Graving Dock is partly vegetated and partly hardstanding (see Plate 23). Hardstanding in this area appeared to be in poor condition.
- 2.3.19 The majority of this area is laid to concrete or asphalt which appears to be generally good condition. Surface water drainage was present and appeared to be unobstructed where observed.

3 Land Use

3.1 General

3.1.1 This section sets out details of the current and historical land use of the Assessment Site and the surrounding area. The data presented does not represent full details of all land uses, but those that are considered to have the potential to have led to contamination of the Assessment Site. For full details of the land use, the Envirocheck Report included within *Appendix 3* should be consulted.

Table 3-1 Land Use

Section	Description/Information			Comments / Potential Contamination Sources
Site Size	The Site i	s approxima	ntely 30 hectares in size.	N/A
Current Site Description / Layout*	including engineeri in some a	a ferry termi ng. The majoreas (mainly	is currently in use by several businesses for a range of commercial uses nal, scrap yard, garage, animal feed storage, mobile home storage and marine ority of the Assessment Site is laid to hardstanding. Scrub vegetation was noted y in the Milforge Site and in the southwest).	Potentially contaminative activities are present on site including fuel storage, scrap yard and garage.
Current Neighbouring Land Uses* (500m)			Hospital is present to the south, beyond Fort Road. Residential and commercial to the east and south. Milford Haven Waterway is present to the north and	N/A
Site History** (Labelled features from the	From	ate To	On-site Land Uses	The following have been identified as potentially significant on-site sources of
	1866	Port's own historical maps: A <i>Tar Tank</i> is shown along the southern boundary, south of the <i>Timber</i> Pond in the southwest of the Site (in its present location). <i>Slipways No.1</i> to <i>No. 13</i> are shown along the boundary with the estuary, and numerous buildings associated with wooden shipbuilding are shown (<i>Timber Sheds, Pitch House, Saw Mills, Joiners Shops, Oakum Store</i>). Also of note is a <i>Foundry, Smithy, Plumbers Shop, Fitting Shop</i> and <i>Coal Yard</i> . Drains are shown including a culvert possibly draining surface water to the <i>Timber Pond</i> . A <i>Saw Pit</i> is shown in the southwest (a deep pit for sawing long planks of	 Localised areas of tank storage (inorganic and organic contamination), The historical presence of rail tracks across the Site (inorganic and organic contamination), The historical presence of oakum storage (tar, creosote, asphalt), The historical presence of ordange 	
	1866 1869	1869	wood). No development shown in most of the Assessment Site.	 The historical presence of ordnance storage and rifle range (Ref. 17)
	1869	1909	The Assessment Site is shown as developed with numerous buildings. Building Slips, Timber Pond, Drill Battery & Stables and a Saw Pit are shown.	(UXO), The historical and ongoing use for

Section			Description/Information	Co	omments / Potential Contamination Sources
	1909 1925	1950 1925	The site is shown as blank, presumably due to its strategic position during the war years. Port's own historical map: Oil Tanks are shown in the far northwest of the Assessment Site, in addition to the industrial activities noted on earlier maps.		light industrial/commercial, The presence of electrical substations indicate potential contamination from PCBs,
	1950	1953	The outlines of a jetty, dry docks, buildings and railway tracks are shown without labels.	-	The presence of salvage activities mean contamination from fuels, oils and heavy metals is possible.
	1953	1964	Simply labelled as <i>Flying Boat Base</i> with no structures shown. The western boundary with the estuary appears to extend further into the estuary than previously.		
	1964	1967	The site is shown as blank, presumably due to its use by the Royal Navy.		
	1957	1974	Port's own historical maps: In the northeast of the Site (Gate 1 area), buildings denoted as Aircraft Services Hanger, Bulk Fuel Installation and Dome Teacher are shown. A 'Dome Teacher' is understood to be a training area for anti-aircraft gunners. Another Bulk Fuel Installation is shown within the present-day Ferry Port area. A further Bulk Fuel Installation is shown within the present-day Graving Dock area. Pyrotechnics, a Bomb Store and Detonator Store are shown between the Graving Dock and present-day Ferry Port. West of the Gate 4 area, storage buildings are present including Lube Oil Storage. North of the Milforge Site in the south of the Assessment Site, buildings including Diesel Tanks, Workshops and Inflammable Stores.		

Section		Description/Information		Comments / Potential Contamination Sources
	1967	1974	Along the northern boundary of the Assessment Site, <i>Tanks</i> , a <i>Jetty</i> , <i>Dry Docks</i> and <i>Slipways</i> are shown. The site appears to be labelled as <i>Royal Naval Boom Defence Depot</i> . Railway tracks are seen across the Assessment Site, extending from the eastern boundary to the <i>Jetty. Pembroke Dockyard</i> is labelled.	
	1974	1985	A Helicopter Landing Pad and Motor Museum is shown in the southeast.	
	1985	1989	A Ship Ferry Terminal is labelled and two additional jetties are shown extending north into the estuary.	
	1989	1994	Hoppers and a Depot are labelled, as are two Electrical Substations. Tanks are no longer shown (although they are shown on later maps). The site is no longer labelled as Royal Naval Boom Defence Depot. A Garage is shown in the southwest. The Helicopter Landing Pad is no longer shown.	
	1994	1995	A Mooring and Marine Salvage Depot is shown in the northwest corner of the Assessment Site. Tanks are shown in the northeast.	
	1995	1996	A second <i>Electrical Substation</i> is now shown close to the earlier identified one.	
	2006	Present day	The Pembroke Dock Heritage Centre is in the building previously labelled as <i>Motor Museum</i> . Current road layout is shown.	
		ate	Surrounding Land Uses	The following have been identified as
	From	То		potentially significant off-site sources of contamination:
	1866	1909	Gas Works are shown immediately to the south of the southwest corner. Housing is shown to the east and predominantly fields to the south.	 The historical presence of a Gas Works adjacent to the southern site boundary,

Section			Description/Information	Comments / Potential Contamination Sources
	1866	1909	Defensible Barracks are shown approx. 300 m south of the Assessment Site.	 The unknown nature of the Depot, now in use as South Pembrokeshire
	1909	1953	The Gas Works are labelled as disused. Pennar Barracks are shown approx. 1km to the southwest. The Dockyard Naval Hospital is shown immediately to the south. Reservoirs and Tanks are shown approx. 160 m south of the Assessment Site.	Golf Club.
	1925	1925	Port's own historical maps: Oil Tanks and Shale Oil Tanks are shown in the location of the present-day sewage works.	
	1953	1964	The hospital is labelled as <i>Fever Hospital</i> . The <i>Gas Works</i> is no longer shown. An unlabelled large area of earth banks is present approx. 530 m to the southwest.	
	1964	1966	The Reservoirs and Tanks are no longer shown.	
	1966	1967	Numerous circular structures (unlabelled) are shown in earth bank area, possible tanks. The interview with site staff indicated that these were oil tanks and were a target during bombing raids.	
	1967	1971	The hospital is now labelled as South Pembrokeshire Hospital. Part of the earth bank area is labelled as Water.	
	1971	1994	The earth banked area to the south is now labelled as <i>Depot</i> .	
	1994	2017	The earth bank area is now labelled as <i>Disused Workings</i> . <i>Pennar Barracks</i> is no longer shown. A number of <i>Tanks</i> are shown to the west, and a <i>Pipe Line</i> . The area is labelled as <i>Sewage Works</i> .	
	2017	2017	The former earth bank area is now labelled as Golf Course.	

Section	Description/Information		Comments / Potential Contamination Sources
Land Use	Distance & Direction	Details	
Landfills (500 m)***	178 m East	There is 1 no. entry (not active) for a Registered Landfill Site within 500 m. License Holder: Govan Davies Developments Limited Site Location: Dry Dock & Part Of West Llanion Pill Max input rate: 'Medium' (25,000-75,000 tonnes per year) Date started: 01/10/86, now lapsed/cancelled/defunct/not applicable/surrendered Authorised waste included: stone, brick, hardcore, concrete	The risk from this off-site historical inert landfill is considered to be low, due to the nature of materials accepted.
Waste Treatment, Transfer and Disposal Sites (500 m)***	On-site	There are 3 no. active entries for Licensed Waste Management Facilities at the Assessment Site. These relate to two sites and concern Household, Commercial and Industrial Transfer Stations and Metal Recycling Sites respectively.	The permitted nature of these activities reduces the risk of contamination from said facilities.
	Off-site	None recorded.	N/A
Potentially Contaminative land	On-site:	Potentially contaminative land uses (active and inactive) on site include dockyard, garages, electrical manufacturers, haulage, mechanical engineers, engineering services, used car dealers, ship builders/repairs/fittings, scrap metal merchants, car breakers and oil fuel distributers.	There is the potential for the previous and current land uses at the site to have given rise to contamination of soils and underlying groundwater.
Uses*** (250 m)	Off-site:	Potentially contaminative land uses (active and inactive) off-site include tyre dealers (131 m southeast), vehicle repairs (201 m east) and garage services (249 m east).	Given the distance, it is considered unlikely that these land uses will have affected the land at the Assessment Site.
Petrol and Fuel Sites***	On Site	None recorded	N/A
(250 m)	Off-Site	None recorded.	N/A

Section		Description/Information	Comments / Potential Contamination Sources
Authorisations / Licences (250 m)***	On-Site Off-Site	The Assessment Site is listed as an active Explosive Site (Royal Dockyard, Pembroke Dock). None recorded.	Any intrusive ground investigations may need to avoid certain areas of the site if this characterisation is correct. N/A
Recorded Pollution Incidents (Controlled Waters) (250 m)***	On-Site	Location: Pembroke Dock Pollutant: Farm Effluent/Slurry Incident Date: 28/02/95 Receiving Water: Not Given Severity: Category 3 – Minor Incident Location: Carrs Rock Outfall Pollutant: Farm Effluent/Slurry Incident Date: 27/02/95 Receiving Water: Not Given Severity: Category 3 – Minor Incident	Considering the scale and the dates of these incidents, these incidents are not considered to provide a contamination risk at the Site.

Section		Description/Information	Comments / Potential Contamination Sources
	Off-Site	While not listed in the Envirocheck report, it should be noted that in February	
		1996, an oil-tanker (MV Sea Empress) lost a large quantity of crude oil in the	
		Milford Haven, approx. 15 km to the west of the Assessment Site.	
		Location: Llanreath Beach	
		Pollutant: Heavy Fuel Oil	
		Incident Date: 26/11/97	
		Receiving Water: Not Given	
		Severity: Category 3 – Minor Incident	
		Location: Pembroke Dock Ferry Terminal	
		Pollutant: Oils-Diesel	
		Incident Date: 13/01/98	
		Receiving Water: Not Given	
		Severity: Category 3 – Minor Incident	
	On-Site	There is 1 no. Integrated Pollution Prevention and Control entry listed on the	
Pollution Prevention and		Assessment Site (now revoked). This related to Celtic Biodiesel Limited.	
Controls*** (500 m)	Off-Site	There are no entries listed off site within 500 m.	N/A
		There are 5 no. active discharge consents listed within 500 m of the Assessment	
		Site. These consents are: 3 no. consents for Public Sewage: Storm Sewage	
Discharge Consents		Overflow, 1 no. consent for Sewage-Crude to Further Treatment-Water	These consents all relate to the
(500 m)***	Off Site	Company, and 1 no. consent for Sewage Discharge-Final/Treated Effluent-	discharge of effluent. They are
		Water Company. These consents related to the discharge into a saline estuary	considered to pose a low risk.
		(Milford Haven) (2 no.) and a freshwater stream/river (Milford Haven Waterway)	
		(3 no.).	

	Section	Description/Information		Comments / Potential Contamination Sources
-		On Site	There is 1 no. active discharge consent listed for the Assessment Site. This relates to trade discharges and site drainage into the Milford Haven Estuary. The consent is held by the Milford Haven Port Authority.	

^{*} based on site reconnaissance and review of Envirocheck Professional Report (Ref. 8)

^{**} based on review of Historical Maps (Ref. 8) obtained from Envirocheck, and on reviews by others

^{***} based on review of Envirocheck Professional Report (Ref. 8)

4 Environmental Setting

4.1 General

4.1.1 This section sets out details of the environmental setting of the Assessment Site and the surrounding areas.

Table 4-1 Environmental Sensitivity

Section	Description / Information			Issues / Comments	
Geology & Hydrogeology**	Strata	Description	Aquifer Status	Anticipated Approx. thickness (m)	
	Made Ground	Hardstanding comprising concrete and asphalt was identified during the site reconnaissance visit. Compacted gravel was observed. The previous investigations noted concrete, asphalt, gravel and silt at the surface. Cobbles and boulders of concrete and limestone were often encountered.	N/A	Previous investigations record up to 8 m	Made Ground is expected to be present across the site, including potentially underlying hardstanding and in areas of historical development. The entire site may be made up of reclaimed land, according to site staff. The area between Slipway 1 and Slipway 2 is expected to be Made Ground. Groundwater may be present within the Made Ground.
	Superficial Deposits	Tidal Flat Deposits (clay, silt, sand, gravel, peat) are expected according to published geological information. The presence of superficial deposits is confirmed by the recent ground investigations by others.	Secondary Aquifer (Undifferentiated)	Up to 6 m thick, where present	Superficial Tidal Flat Deposits are expected along the coastal edges of the Assessment Site.
	Bedrock	Pembroke Limestone Group (limestone, mudstone, sandstone) in the south. Black Rock Sub-group and Gully Oolite Formation (limestone, mudstone, sandstone) to the north	Principal Aquifer	Up to 1025 m thick (<i>Ref. 4</i>)	The bedrock has been found to be weathered at the upper boundary by the recent ground investigations by others. The limestone bedrock has been found by others to dip at approx. 45 degrees to the south (<i>Ref. 14</i>). Sites underlain by limestone can be prone to the presence of natural solution features (including "solution pipes") formed by dissolution of the

Section		Description / Information		Issues / Comments	
					soluble strata. These features can be present in a stable or potentially unstable condition and metastable cavity forms may be disturbed and triggered to cause ground subsidence. Trigger mechanisms may include loading, leaking drains, or water supply pipes. The Envirocheck report does not record any features within 1 km.
Groundwater Vulnerability	The superficial stratum does not have a groundwater vulnerability classification. The bedrock geology is classed as Soils of High Leaching Potential (U).			It is considered that due to the proximity of the estuary, the groundwater is likely to be impacted by saline intrusion. Extracted groundwater from this area is unlikely to be suitable for drinking water and subsequently the sensitivity is lower than would otherwise be expected for a principal aquifer.	
	T				
	Distance & Direction	Details			
SPZs* (500 m)	On site	None Identified			None recorded
	Off site	None identified within 500 m of the Assessment Site.			None recorded
Surface Water (1 km)*	On-site	The only surface water body on site is within the Assessment Site boundary. The northern half of the Assessment Groundwater Flooding to occur. The separate potential for Groundwater Flooding of Small areas of the Assessment Site (have the Potential for Groundwater Floiding to Groundwater Floiding to Groundwater Flooding to Groundwater Flooding to Groundwater Flooding from Rivers or Sea Some areas of the Assessment Site (considered to be at risk (low to high) of the Missessment Site (considered to be at risk (low to high) of the Assessment Site (considered to be at risk (low to high) of the Assessment Site (considered to be at risk (low to high) of the Assessment Site (considered to be at risk (low to high) of the Assessment Site (considered to be at risk (low to high) of the Assessment Site (considered to be at risk (low to high) of the Assessment Site (low to high) of the Assessment Si	valong the northern edges Site has a Limited Pote southern half of the site of Property Situated Below (in the southeast and so Tooding to Occur at Surface of the Assessment Site or Sea without Defences a without Defences (Zon (mainly in the southern I	ntial for has the w Ground Level. uthwest corners) face. te are shown to s (Zone 3) and e 2). half) are	There is a risk of flooding at the Assessment Site, mainly from surface waters but also partly from groundwater.
	Off site	The Milford Haven Waterway and Est north of the Assessment Site.	tuary (SSSI) is present	to the immediate	The estuary is the main receptor for potential contamination leaching/migrating from soils and/or

Section		Description / Information	Issues / Comments
			groundwater below the Assessment Site. Currently extensive hardstanding limits infiltration of rainwater, although it is in poor condition in places.
Licensed Water	On site	None recorded.	N/A
Abstractions (1 km)*	Off site	None within 1 km.	N/A
Conservation Areas & Sensitive Land	On site	The Assessment Site does not lie within a Nitrate Vulnerable Zone.	This designation is not relevant to the proposed development.
Use (1 km)*	Off Site	A Site of Special Scientific Interest (SSSI) (Milford Haven Waterway) is present to the west of the Assessment Site. A Special Area of Conservation (SAC) is present to the north and west (Milford Haven Waterway).	The ecological status of the surrounding area means that it would be sensitive to any contamination migrating from the Assessment Site.
		An Environmentally Sensitive Area (Preseli) is present 895 m to the north.	
	Is the site potentially affected?	Details	
Radon*	Yes	The Assessment Site is within a higher probability radon area - where 10% to 30% of homes are estimated to be at or above the Action Level.	Full radon protection measures are required in the construction of new dwellings or extensions.
Coal Mining*	No	The Assessment Site is not in an area that is recorded as impacted by coal mining.	N/A
BGS Recorded Mineral Sites (1 km)*	On site	1 no. active entry is listed for Old Dock Yard, Commercial Row in relation to Marine Sands and Gravels.	This entry likely related to dredging activities and therefore the risk of contamination is considered to be low.
	Off site	No entries are listed within 1 km off-site.	N/A
Historical Surface Ground Working	On site	None identified	N/A
Features	Off site	None identified	N/A
Foundered Strata / Landslide*	On site	The Envirocheck Report suggests that there is: • A very low hazard potential for shrink-swell clay	According to the Landmark Envirocheck report, natural ground stability hazards at the Assessment Site are considered to be very low to moderate.

Section	Description / Information	Issues / Comments
Section	A very low hazard potential for landslides A moderate hazard potential for compressible ground A very low hazard potential of collapsible rocks A moderate hazard potential for running sand A low hazard potential for dissolution	The moderate rating of compressible ground hazards indicates the potential for differential settlement of the ground under loading. Geotechnical testing and calculation of bearing capacities should be considered during design of proposed structures and infrastructure. Consideration should be given to the potential for running sands during ground investigations and development phases.
		While dissolution is described in the Envirocheck report as low, the potential for dissolution features within the limestone bedrock should be considered during any investigation and development.

^{*} based on review of Envirocheck Professional Report (Ref. 8)

^{**} based on review of Historical Maps (Ref. 8) obtained from Envirocheck, and on reviews by others

5 Previous Reports

5.1 Introduction

- 5.1.1 The following reports have been reviewed as part of this Desk-Top Study:
 - Port of Pembroke Culvert Traverse Survey Letter report, by Sewer Services Ltd on behalf of W S Atkins, ref: 417-3/WFR/vjf, dated 24th May 1999.
 - Land Quality Assessment Phase 1: Desk Study, HM Mooring Depot Pembroke Dock, by Enviros Consulting Ltd on behalf of Defence Estates, ref: 12553, dated October 2006.
 - Land Quality Assessment Phase Two: Intrusive Investigation, HM Mooring Depot Pembroke
 Dock, by Enviros Consulting Ltd on behalf of Defence Estates, ref: 12553, dated April 2007.
 - Ex-RMAS Site, 2020 Condition Survey Report, by Atkins on behalf of Milford Haven Port Authority, ref: 5056549-2/DG01-3, dated December 2008.
 - Gate 4 Pickling Pond Culvert System, Preliminary Inspection Report, by Atkins on behalf of Port of Milford Haven, ref: 5116155-008/DG01_Inspection Report, dated 21st June 2013 (this includes and updates a report from 20th September 2010).
 - Site within Gate 1 Pembroke Dock Pembrokeshire, Preliminary risk assessment, ground conditions and contaminated land, by RSK Environment Ltd on behalf of Port of Milford Haven Limited, ref: 312994-R1(00), Status: Final, dated March 2015.
 - Phase I Ground Investigation Interpretative Report, Pembroke Dock Port, by Quantum Geotechnical on behalf of Milford Haven Port Authority, ref: G624/IR, dated April 2015.
 - Pembroke Dock Geotechnical Desk Study, Desk Study, by Royal Haskoning DHV on behalf of Milford Haven Port Authority, ref: PB4337R002, rev. 01/Final, dated 13th November 2015.
 - UXO Desk Study & Risk Assessment, Pembroke Dockyard by Zetica Ltd on behalf of Royal Haskoning DHV, ref: P5692-15-R1 rev B, dated 7th December 2015.
 - Milford & Pembroke Docks, Ground Investigation Factual Report, by Quantum Geotechnical
 Ltd on behalf of Milford Haven Port Authority, ref: G778/FR, rev 1, dated June 2016.
 - Pembroke Dock Redevelopments, Ground Investigation Report, by Royal Haskoning DHV on behalf of Milford Haven Port Authority, ref: PB4337R007D01, rev. 01/Draft, dated 3rd August 2016.
- 5.1.2 Each report is summarised below, including the areas covered, assessments made and conclusions reached.

5.2 Culvert Traverse Survey by Sewer Services, May 1999

5.2.1 A survey of an east-west running culvert below the south of the Assessment Site was undertaken by person entry in 1999. This did not note any signs of contamination, other than a foul odour close to the estuary outlet to the west which was noted to have been contributed to washed up debris rather than a foul sewer connection.

5.2.2 The culvert runs from the gardens between Melville Street and Meyrick Owen Way, west to an outfall in the estuary. The culvert runs below the site known as Milforge.

5.3 Land Quality Assessment Phase 1, Enviros Consulting Ltd, October 2006

- 5.3.1 This report comprises a desk-based assessment of the environmental condition of the western third of the current Assessment Site. The report included a walkover survey and summaries of previous desk-based studies and intrusive investigations.
- 5.3.2 The potential sources of contamination identified were former standby generators (hydrocarbon fuels), former metal foundry, coal yard and paint shop (lead, arsenic, PAHs, phenols, copper and zinc), former oakum store (tar, creosote, asphalt), Made Ground (heavy metals, hydrocarbons and PAHs), former lube oil store (hydrocarbon fuels and phenols), former transformers (oil, PCBs), former rifle range (lead, gunpowder residues), former locomotive shed (hydrocarbons, PAHs, metals), former railway lines (PAHs, PCBs, metals, asbestos), current POL Point (petroleum, oil, lubricants) and emergency generator (hydrocarbon fuels and phenols), current and historical use for maintenance works (metals, solvents, hydrocarbons) and sediments from Pickling Pond (also called Timber Pond) (lead, arsenic, mercury and chromium).
- 5.3.3 The following reports are discussed in the report. A plan showing the locations of the exploratory holes advanced as part of each of the intrusive investigations is given in an appendix to the report. It should be noted that RPS has not had sight of the reports or chemical data, only the borehole logs from the Gibb (2001) and Enviros (2004) intrusive investigations.

Table 5-1. Reports reviewed by Enviros Consulting Ltd in LQA Phase 1, October 2006

Report title and date	Brief description
CESO(N) Phase I Land Quality Assessment AD/ScET Report No. ES350/98/16, dated 1998.	Not discussed within the Enviros report – no reason given.
Land Quality Assessment Phase II: Intrusive Assessment, HM Mooring Depot Pembroke Dock, by Gibb Environmental, ref: 11852, dated February 2001.	Whole Assessment Site. 11 no. boreholes to max. 6 m bgl. 6 no. sediment samples from the Timber Pond and foreshore.
Disposal Area One, HM Mooring Depot, Pembroke Dock, Combined Phase I and II Land Quality Assessment Report and Technical Note, by Enviros Consulting Limited, ref: 12553, dated April 2004	14 no. shallow boreholes, and 6 no. rotary boreholes into the Limestone aquifer/Alluvium for groundwater monitoring. Focused on an area within the western third of the current Assessment Site.
Disposal Area Two, HM Mooring Depot, Pembroke Dock, Combined Phase I and II Land Quality Assessment Report and Technical Note, by Enviros Consulting Limited, ref: 12553, dated April 2004	3 no. shallow boreholes to max. 3.5 m bgl, and 2 no. rotary boreholes into the Limestone aquifer/Alluvium for groundwater monitoring. Focused on an area within the western third of the current Assessment Site.

Report title and date	Brief description
Interim Phase I Letter Report, by Enviros Consulting Ltd, dated February 2005.	This desk-based report included a walkover of areas not covered by the above intrusive investigations. The findings were incorporated into this LQA Phase 1 report.
Foreshore Areas, HM Mooring Depot, Pembroke Dock, Combined Phase I and II Land Quality Assessment Report and Technical Note, by Enviros Consulting Limited, ref: 12553, dated July 2005	Focussed on areas of foreshore to the north and northwest of the Assessment Site (not within the current Assessment Site boundary). 4 no. sediment samples.

- 5.3.4 The report states that intrusive investigations, sampling, analysis of soil and groundwater samples and risk assessment was undertaken. Lead and hydrocarbons are stated to have been recorded in Made Ground above the assessment criteria of the time. Hydrocarbon and phenols are stated to have been identified in soil and shallow groundwater in the vicinity of former standby generator house fuel tanks. Tributyl tin was encountered in sediment samples from the ends of slipways. The two samples of sediment from the Timber Pond were found to contain elevated concentrations of metals (concentration not given).
- 5.3.5 A comment on radioactive materials was given and concluded that the there is a low likelihood of radioactive contamination being present at the site. This is based on the previous military use of the site.
- 5.3.6 The report concluded that it was unlikely that there would be any significant environmental constraints to redevelopment for continued commercial/industrial use, provided the identified risks were appropriately managed and mitigated. Where hardstanding was proposed to be removed, limited remedial works were recommended. For a residential land use, remediation was recommended due to localised exceedances of the then current assessment criteria.

5.4 Land Quality Assessment Phase Two, Enviros Consulting Ltd, April 2007

- 5.4.1 This report details the following intrusive works which were undertaken in November 2006:
 - 18 no. shallow rotary boreholes for soil sampling, max depth 3.0 m bgl (WS201-WS218),
 - 4 no. deeper boreholes for groundwater monitoring wells (BH201-BH204),
 - 6 no. rounds of gas and groundwater monitoring.
- 5.4.2 The report includes a plan of exploratory hole locations, a conceptual site model, exploratory hole logs with co-ordinates and elevations (plus borehole logs for Gibb 2001 and Enviros 2004), results of the gas and groundwater monitoring rounds, laboratory data for gas samples.
- 5.4.3 The ground conditions from the borehole logs provided in this report are summarised in the table below.

Table 5-2. Summary of Ground Conditions, as described in Enviros, 2007

Stratum	Description (as interpreted by Enviros Consulting Ltd, 2007)	Thickness, m	Depth to base, m bgl
Made Ground	Encountered in every exploratory hole. Variously comprised hardstanding or limestone, silt, sandstone, clay, slate, brick, coal, slag, clinker, plastic, timber and metal fragments. Thickest at borehole BH202 in the west of the Assessment Site. Bituminous odour at BH6 (Enviros 2004). Concrete 2.0 m thick in BH11 (Enviros 2004).	0.55 to 7.9	0.55 to 7.9
Head Deposits	Soft red brown slightly sandy slightly gravelly clay with occasional cobbles. Gravel and cobbles are of limestone. Occasional sand lenses. Occasionally gravel.	1.2 to 4.05 2.3 to 9.2	
Weathered limestone	Weathered grey limestone with clay bands	1.4	6.0
Limestone (bedrock)	Grey limestone	Unknown	Base unproven

- 5.4.4 This report stated that the investigation found seven locations where soil contamination was encountered, with regard to heavy metals and PAH above the assessment criteria of the time (Soil Guideline Values). Further assessment of the sediment sample data taken previously from the Timber Pond was undertaken and exceedances of the commercial assessment criteria for lead were noted. Six groundwater samples were taken and combined with previous groundwater data. Assessment found exceedances for heavy metals, other inorganics, TPH and PAH.
- 5.4.5 As per the previous report, this report concluded that it was unlikely that there would be any significant environmental constraints to redevelopment for continued commercial/industrial use, provided the identified risks were appropriately managed and mitigated. Where hardstanding was proposed to be removed, limited remedial works were recommended. For a residential land use, remediation was recommended due to localised exceedances of the then current assessment criteria.

5.5 Condition Survey Report, Atkins, December 2008

- 5.5.1 This report comprises the results of surveys of the condition of various aspects of the Dockyard (walls, roads, drainage etc.). Generally, condition is reported to be good and recommendations are made in selected areas.
- 5.5.2 No information on ground conditions or potential for contamination is given and as such this report is not reviewed further.

5.6 Gate 4 Pickling Pond Culvert System, Preliminary Inspection Report,Atkins, June 2013

- 5.6.1 A survey of the two culverts from the Pickling Pond (also called Timber Pond) located on the southwest of the Assessment Site was undertaken in 2010 and updated by further survey work in 2013 following the discovery of additional access. These two culverts run; west to the estuary, and north to the Graving Dock. The full route to the Graving Dock has not been proven. The purpose of these culverts was to allow the saline water in the pond to be 'flushed' periodically.
- 5.6.2 Regarding potential contamination sources and/or pathways, the only information of note from this report is that 3 no. barrels of unknown contents were noted within the north culvert in 2013. These were located 20-25 m from the access chamber (labelled as Shaft 1 on Figure 5-1, image copied from report).

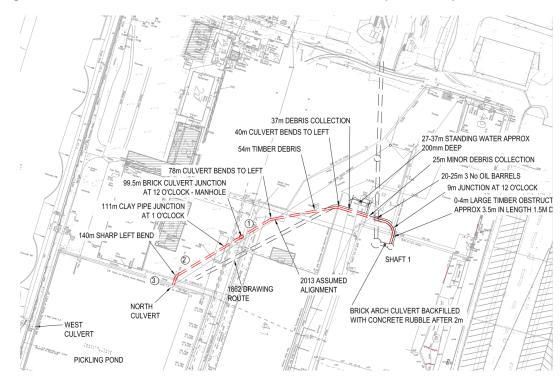


Figure 5-1: North culvert with location of 3 no. barrels noted (June 2013)

5.7 Gate 1 Preliminary Risk Assessment by RSK, March 2015

- 5.7.1 This Preliminary Risk Assessment (PRA) by RSK covers a specific sub-site only, 'Gate 1'. This is an area in the north-east of the Assessment Site, shown on Figure 5-2.
- 5.7.2 The objective of this report was to provide an indication of potential contamination issues and other ground related constraints within the site (the site being the Gate 1 area shown below).

The report produces an initial conceptual site model which is used to assess potential risks to human health, the environment and potential environmental liabilities.

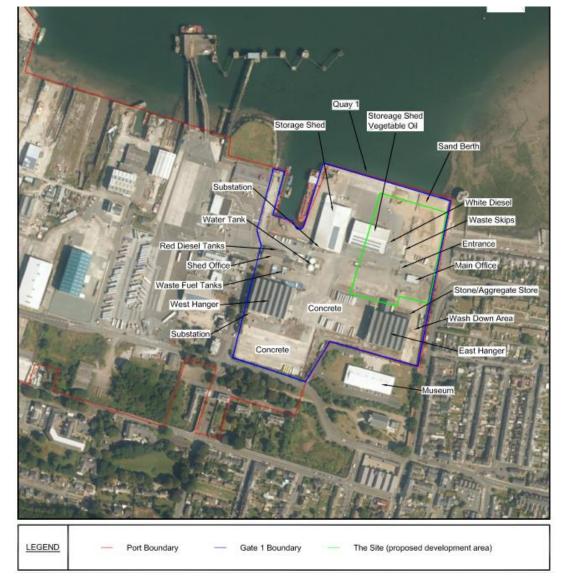


Figure 5-2: Gate 1 sub-site covered by RSK report (March 2015)

- 5.7.3 The report used available published data relating to geology and hydrogeology, historical maps, an environmental database report (Groundsure), risk from unexploded ordnance (UXO) and also included a site reconnaissance visit undertaken on 10th March 2015.
- 5.7.4 This visit observed a sand storage berth, open areas of hardstanding, a storage shed, site office, security hut, and several portable cabins in the Gate 1 sub-site. A bunded above-ground fuel storage tank (single-skinned) and a standalone fuel dispenser (un-bunded) were noted within the area. No hydrocarbon sheen was noted on water present within the tank bund, and no hydrocarbon staining was noted around the fuel dispenser. It was noted that the fuel dispenser was in poor condition and located on gravel/soft cover. The recent site reconnaissance visit by RPS confirms that this tank is no longer present.

- 5.7.5 A vehicle wash-down area (and associated generator) was noted to the south-east of the Gate 1 sub-site, also outside of the site boundary were an electrical sub-station, further above-ground tanks and vehicle storage. The features noted during the visit are shown on the figure reproduced from the report. The surrounding land use was recorded to be commercial/light industrial, with residential areas to the south and east.
- 5.7.6 This report did not include a review of any previous reports.
- 5.7.7 The potential risk from ground gas was considered by in this report to be moderate, based on CIRIA 665, due to the long commercial/industrial setting of the dock.
- 5.7.8 The PRA concluded that potential sources of contamination are present, including made ground, historical industrial activities, fuel storage and waste storage. The maximum risks given were moderate/low (for risks from ground gas/vapours to current/future site users), and moderate (to groundwater and surface waters from soil/groundwater contamination). The PRA recommended an intrusive investigation and also a detailed UXO desk study.

5.8 Phase I Ground Investigation, Quantum, April 2015

- 5.8.1 The Phase 1 Ground Investigation covers an area in the east of the current Assessment Site, previously referred to by others as 'Gate 1'.
- 5.8.2 The works were "to investigate and assess the ground conditions in preparation for infrastructure and buildings relating to the potential construction of a tidal lagoon power generation scheme".
- 5.8.3 The fieldwork undertaken by Quantum in March 2015 as reported in this April 2015 report, comprised rotary boreholes (BH1 to BH5) and trial pits (TP01 to TP19). Standard Penetration Testing was undertaken in the boreholes. The exploratory hole logs are given in an appendix to the report. Geotechnical and chemical laboratory testing were also reported.
- 5.8.4 A geophysical survey was undertaken and aimed to investigate the area for buried structures and possible solution features in the underlying limestone. The report concluded that a number of anomalies were encountered including historic rail lines (linear features) and anomalies which may warrant further investigation. The amount of hardstanding meant it was not possible to establish bedrock profiles (to look for solution features). The report recommended that seismic refraction and/or seismic cross hole surveys could be undertaken to give a more detailed analysis of bedrock depth, profiles and engineering properties.
- 5.8.5 The ground conditions from this investigation, as reported by Quantum, is summarised in Table 5-3.
- 5.8.6 Metamorphic rock was encountered in two boreholes. The report states that this interpretation has been made based on the very strong nature, mild foliation of minerals and occasional nodules of pure quartzite mineralisation, interpreted to be sandstone which has undergone mild metamorphosis.

Table 5-3. Summary of Ground Conditions, as described in Quantum, 2015

Stratum	Description (as interpreted by Quantum, 2015)	Depth to base, m
Made Ground (Granular)	Loose to medium dense, brown grey, sandy, fine to coarse gravel with frequent angular to sub-angular cobble and boulders including slag and clinker material and pieces of broken brick and metalwork.	
Made Ground (Obstructions)	Sections of brick wall with mortar, limestone square-cut blockwork and metal work and rebar concrete obstructions encountered in a number of pits.	0.5 to 1.5
Made Ground (Cohesive)	Firm red brown, very gravelly clay with frequent to occasional angular to sub-angular cobbles.	1.0 to 3.0
Weathered limestone (bedrock)	Angular to sub-angular limestone cobbles and boulders.	0.65 to 4.0
Limestone (bedrock)	Strong to very strong, medium grey, fine grained limestone with fractures indicating in-situ weathering. Occasional occurrence of calcite mineralisation within rock mass. Occasional occurrence of clay mineralisation along fracture planes.	Base unproven
Metamorphic (bedrock)	Very strong, medium yellow brown, thinly to thickly laminated, medium grained metamorphic rock with discolouration weathering and occasional occurrence of quartzite mineralisation nodules. BH1 and BH2 only.	7.6 to 8.9

- 5.8.7 Risks to human health and controlled waters were assessed. The risk to future site users and construction workers was considered to be low. The risk to controlled waters was considered tentatively to be low. A geotechnical engineering appraisal was also undertaken.
- 5.8.8 The conclusions and recommendations given in the report include:
 - Made Ground in this area is unsuitable for founding structures on (the material could be regraded to form an engineered fill),
 - A design sulphate class of DS-2/AC-2 should be used for concrete, in accordance with BRE Special Digest 1 (Ref 18),
 - Plate load testing would be required if engineered fill is to be used, and

 Soil leachate testing may be required to determine the risk from Made Ground to controlled waters.

5.9 Geotechnical Desk Study, Royal Haskoning DHV, November 2015

- 5.9.1 This report covers three sub-sites; Gate 1, Gate 4 and Millforge. The locations of these areas are shown on Figure 5-3. It should be noted that the Gate 1 area in this report is smaller than that labelled Gate 1 in the RSK report reviewed in Section 5.2 above.
- 5.9.2 The objectives of the report are to identify potential contamination sources and risks to human health/the environment, to identify geological features and to assess potential geotechnical risks to future development.
- 5.9.3 The Gate 1 sub-site is described as comprising "a large concrete hardstanding pad approximately 100 m by 70 m. Currently unused (at the time of Royal Haskoning's site reconnaissance visit), the site lies in the southeast corner of the Pembroke Dock and is surrounded by roadways and commercial/industrial land use". The Gate 4 sub-site is described as comprising "an area of quayside including a dry dock and slipways, with a commercial/industrial building immediately to the south". The Millforge sub-site described as comprising "an area of semi-derelict land with a large warehouse/garage and rough scrub and some mature trees. The site lies in the southwestern area of the Pembroke Dock and is bounded to the north by commercial/industrial land use and to the south by a roadway with South Pembrokeshire Hospital beyond".
- 5.9.4 RPS observed conditions which were broadly very similar to the above during the recent site reconnaissance visit.



Figure 5-3: Sub-sites covered by Royal Haskoning report (Nov 2015)

- 5.9.5 The report considers that potential sources of contamination are present and the following potential contaminants of concern are identified; hydrocarbons, PAHs, heavy metals, sulphates, creosote, ammonia, asbestos, solvents, PCBs and organo-tin compounds. The report separates the potential sources into the three areas considered however they have been combined for ease of reference in this report. Risks from ground gas and ordnance are also considered possible.
- 5.9.6 Potential receptors considered include human health (construction/maintenance workers, future site users and adjacent site users), controlled waters, water supply pipes, and buildings and infrastructure. Potential pathways considered include direct contact, inhalation, explosive risk, infiltration/leaching/migration and chemical attack.
- 5.9.7 The reported risks posed to the various receptors are given below (combined for the three subsites for ease of reference):
 - Human health Low to Moderate
 - Buildings & infrastructure Low to Moderate
 - Controlled waters Low to Moderate
- 5.9.8 The following reports are discussed in the Geotechnical Desk Study report. A plan showing the locations of the exploratory holes advanced as part of each of the intrusive investigations is given in an appendix. RPS has not had sight of some of the reports.

Table 5-4. Reports reviewed by Royal Haskoning in Geotechnical Desk Study, 2015.

Report title and date	Brief description
Pembroke Dock Ro-Ro Terminal Development Factual and Interpretative Report, ref: 65014-1 by Fugro, March 1996	16 no. cable percussive and rotary core boreholes to max. 25 m below ground level (bgl). 77 no. geoprobes to max. 5 m bgl. 7 no. grab samples. Where shown on the plan provided, these boreholes appear to all be offshore.
Gibb Environmental (2001) – full title not known	11 no. boreholes to max. 6 m bgl.
Enviros (September 2003) – full title not known	20 no. boreholes to max. 13 m bgl.
Enviros (November 2006) – full title not known, believed to possibly be Enviros 2007 report	4 no. boreholes to max. 10 m bgl. 3 no. window sampler boreholes to max. 3 m bgl. (<i>Discussed in Section 5.4 above</i>)
Pembroke Dock Ex-RMAS Site, 2020 Condition Survey Report ref: 5056549-2/DG01-3 by Atkins, 2008	Included Gibb (2001), Enviros (2003) and Enviros (2006) as appendices. (<i>Discussed in Section 5.5 above</i>)
Pembroke Dock Port, Phase 1 Ground Investigation Interpretative Report, ref: G624/IR by Quantum Geotechnics, March 2015	20 no. trial pits to max. 4 m bgl. 4 no. rotary core boreholes to max. 20 m bgl. Geophysical survey. (<i>Discussed in Section 5.8 above</i>)

5.9.9 The ground conditions from the above reports, as reported by Royal Haskoning, is summarised in the table below.

Table 5-5. Summary of Ground Conditions, as described by Royal Haskoning, 2015

Stratum	Description (as interpreted by Royal Haskoning, 2015)	Thickness m	Depth to base, m bgl
Made Ground	Encountered in every exploratory hole (on-shore). Variously comprised limestone, silt, clay, slate, brick, slag, clinker, plastic, timber and metal fragments. Thickest at borehole 4-BH202 in the west of the Assessment Site (Enviros 2006).	1 to 8	1 to 8
Tidal Flat Deposits (superficial)	These have been encountered off-shore to the north of the Assessment Site where they comprised very soft to firm silty or sandy clays to clayey or silty gravels. Where gravels are present, these are weathered mudstone and limestone.	0.5 to 2.8 (off-site)	0.5 to 2.8 (off-site)
Possible Marine Sediments	Comprising very soft silty clays to clayey sands and sandy gravels. Encountered in west of Assessment Site.	Up to 6	Unknown

Stratum	Description (as interpreted by Royal Haskoning, 2015)	Thickness m	Depth to base, m bgl
Weathered limestone	Interpreted as a karstic (dissolution) feature. Present in the east of the Assessment Site, at borehole 5-BH5 (Quantum, 2015). Comprising angular limestone gravel.	Unknown	20
Limestone (bedrock)	Often weathered at upper boundary. Occasional mudstone and siltstone layers. In the east, it is recorded as interlayered with metamorphosed rocks up to 2.5 m thick where proven. Off-shore boreholes recorded bedrock as mudstone.	Unknown	Base unproven

- 5.9.10 A preliminary assessment for the risks from unexploded ordnance (UXO) was undertaken by Zetica Ltd; this concluded that there was a high risk from UXO.
- 5.9.11 Data from the above reports form the basis of the geotechnical risk assessment, which is presented as a geotechnical risk register in an appendix. This assessment recommended an intrusive ground investigation to quantify and classify deposits, and also to determine the depth to rock head. Other recommendations included a geophysical survey to assess the level of rock head around the developments (including offshore), undertake strength and compressibility testing of the soft cohesive deposits, procure a detailed UXO desk study and further investigation and consultation to establish appropriate methods for detecting voids within the limestone bedrock.
- 5.9.12 In addition to the geotechnical recommendations, geo-environmental recommendations were made. These comprised; an intrusive ground investigation to collect soil samples for analysis and assessment for risk to human health and from aggressive ground conditions (risks to concrete etc.), installation and subsequent monitoring of ground gas wells for risk to human health and buildings, installation of groundwater monitoring wells and subsequent collection of groundwater samples and assessment of risks to controlled waters, and waste assessment for materials tipped at Milforge (it is understood that a waste assessment has since been undertaken, see Section 5.12).

5.10 UXO Desk Study & Risk Assessment, Zetica Ltd, December 2015

- 5.10.1 Zetica Limited undertook a UXO Desk Study & Risk Assessment which covered the whole Assessment Site.
- 5.10.2 This found the risk from unexploded ordnance (UXO) to vary depending on location within the site; moderate risk in the northeast and southeast corners, low risk in the remaining areas. It

was considered unlikely that any unexploded ordnance would have gone unnoticed as it was an operational military base during WWII.

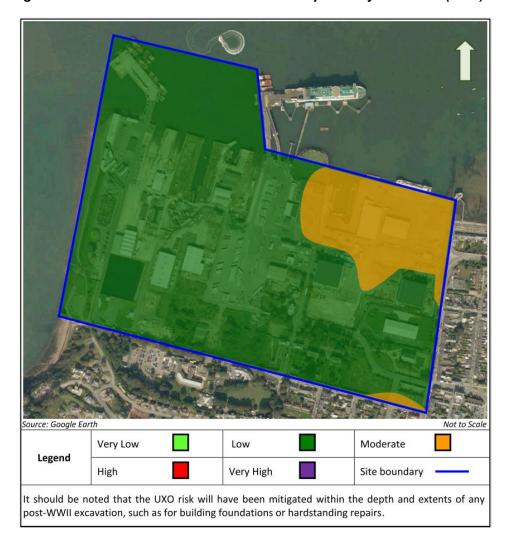


Figure 5-4: UXO risk from low to moderate as reported by Zetica Ltd (2015)

5.11 Ground Investigation Factual Report, Quantum Geotechnical, June 2016

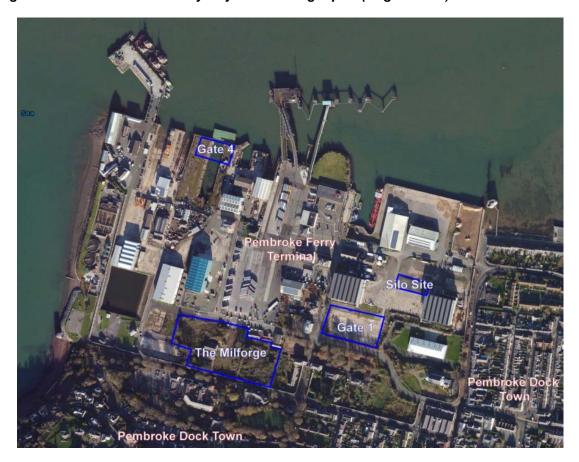
- 5.11.1 This report from Quantum comprises a factual report only and relates to fieldwork undertaken between 29th January and 18th March 2016. The areas investigated were Gate 1, Gate 4 and Milforge. Additional areas were investigated at another dock as part of this report (Milford Haven) however this area is not part of the Assessment Site considered in this report.
- 5.11.2 The fieldwork (at Pembroke Dock only) comprised the following:
 - 11 no. boreholes (BH701 to 706, BH801-802, BH901-903) by dynamic and rotary methods, to between 10 and 16.5 m bgl,
 - 20. No TPs (TP701-706, TP901-913) to between 1.3 and 4.8 m bgl,
 - 19. No HPs (HP901-919) from spoil heaps at Milforge sub-site,
 - 5 no. gas/groundwater monitoring installations plus 2 no. rounds of monitoring,

- Chemical analysis suite including asbestos (soils only), ammoniacal nitrogen, phenol, cyanide, heavy metals, TPH, PAH, and VOC, and
- Geotechnical testing on selected soil samples.
- 5.11.3 The report includes exploratory hole logs with co-ordinates and elevations, geophysical survey report, results of the gas and groundwater monitoring rounds, laboratory data (geotechnical and geo-environmental).

5.12 Ground Investigation Report, Royal Haskoning DHV, August 2016

- 5.12.1 The Ground Investigation Report by Royal Haskoning (August 2016) considers four discrete sub-sites; Gate 1, Gate 4, Silo Site and Milforge. The locations of these areas are shown on Figure 5-5. It should be noted that the Gate 1 area in this report is smaller than that labelled Gate 1 in the RSK report reviewed in Section 5.7 above, and similar to that considered in the Royal Haskoning report reviewed in Section 5.9. The Silo Site is within the larger Gate 1 area considered by RSK. It should also be noted that the Gate 4 area is smaller than the area labelled as Gate 4 in the Royal Haskoning report from 2015 (Section 5.9).
- 5.12.2 The purpose of the report is to summarise the findings of a ground investigation, to establish a ground model, to propose geotechnical design parameters for preliminary design and assess the geo-environmental risks posed by potential contamination at each of the redevelopment sub-sites.

Figure 5-5: Sub-sites covered by Royal Haskoning report (August 2016)



5.12.3 Table 5-6 presents reports used for Royal Haskoning Ground Investigation Report (2016).

Table 5-6. Reports reviewed by Royal Haskoning Ground Investigation Report, 2016.

Report title and date	Brief description			
Gibb Environmental (2000) – full title not known	8 no. boreholes to unknown depth.			
Enviros (September 2003) – full title not known	20 no. boreholes to max. 13 m bgl.			
Enviros (November 2006) – full title not known	4 no. boreholes to max. 10 m bgl. 3 no. window sampler boreholes to max. 3 m bgl.			
Pembroke Dock Ex-RMAS Site, 2020 Condition Survey Report ref: 5056549-2/DG01-3 by Atkins, 2008	Included Gibb (2001), Enviros (2003) and Enviros (2006) as appendices.			
Pembroke Dock Geotechnical Desk Study, Desk Study, by Royal Haskoning DHV on behalf of Milford Haven Port Authority, ref: PB4337R002, rev. 01/Final, 13 Nov 2015. (Detailed above in Section 5.8)	Desk study assessing geo-environmental and geotechnical risks to future development.			
Pembroke Dock Port, Phase 1 Ground Investigation Interpretative Report, ref: G624/IR by Quantum Geotechnics, March 2015	20 no. trial pits to max. 4 m bgl. 4 no. rotary core boreholes to max. 20 m bgl. Geophysical survey.			
Ground Investigation Factual Report for Milford Haven and Pembroke Dock, ref: G778/FR by Quantum Geotechnics, 2016. (Detailed above in Section 5.11.)	11 no. dynamic and rotary boreholes to max depth 16.5 m bgl. 20 no. trial pits to max depth 4.8 m bgl. 19 no. hand excavated samples from spoil heaps (Milforge Site).			
Milforge Lorry Park Extension Spoil, Waste Classification Assessment, by Royal Haskoning DHV, ref: PB4337/N003, 2016	A waste assessment for spoil heaps at Milforge Site which concluded hazardous classification. Report not seen by RPS. Reason for hazardous classification unknown. RPS site reconnaissance visit and discussions with site staff confirms spoil heaps are still onsite.			

- 5.12.4 Geological cross-sections, utilising data from some of the above reports, are given in Appendix A of this Royal Haskoning report, where the soils and rock units are given numbered designations, as used in the table below. The key to the numbering is given in Table 7-1 to Table 7-4, in their Ground Conditions section.
- 5.12.5 Geotechnical parameters were defined and the aggressiveness to concrete was assessed. With regard to aggressiveness to concrete, a design sulphate class of DS-1/AC-1 was given for the majority of the sub-sites, with further testing recommended for the Milforge sub-site.

5.12.6 The ground conditioned noted for each sub-site have been combined into Table 5-7 below.

Table 5-7. Summary of Ground Conditions, as described by Royal Haskoning, 2016

Stratum	Description (Royal Haskoning, 2016)	Thickness, m	Depth to base, m bgl
Made Ground ('Soil Unit 1' (granular) and 'Soil Unit 2' (cohesive))	Variable "Loose to very dense slightly sandy, slight silty or clayey to silty or clayey fine to coarse subangular to angular gravel with frequent man-made objects" or "Soft to firm slightly sandy slightly gravelly to gravelly sometimes silty clay with frequent man-made objects"	0 to 7.0 0 to 4.5	Un-defined
Superficial deposits ('Soil Unit 3' (granular) & 'Soil Unit 4' (cohesive))	"Slightly clayey to clayey slightly sandy to sandy fine to coarse sub-angular to angular GRAVEL" or "Soft to firm slightly sandy slightly gravelly to gravelly CLAY" *Granular superficial deposits (limestone gravel) recorded in BH901 up to 9 m thick, possible solution feature	0 to 2.5* 0 to 4.3	Un-defined
Mudstone (bedrock) ('Rock Unit 1')	"Highly to moderately weathered very weak to moderately strong MUDSTONE"	0 to 2.3	Un-defined
Mudstone (bedrock) ('Rock Unit 2')	"Slightly weathered to fresh, moderately strong to very strong thinly to medium bedded MUDSTONE"	0 to 4.3 (thickness not proven)	Un-defined
Sandstone ('Rock Unit 3')	"Moderately to highly weathered, moderately weak coarse grained SANDSTONE" Recorded in one location only.	0 to 0.75	Un-defined
Weathered limestone (bedrock) ('Rock Unit 4A')	"Highly to moderately weathered very weak to strong LIMESTONE. Often highly fractured or recovered non-intact with zones of assumed core loss"	0 to 12.2 (thickness not proven)	Un-defined
Limestone (bedrock) ('Rock Unit 4B')	"Moderately strong to very strong fractured, medium to thickly bedded LIMESTONE"	>7.3 (thickness not proven)	Base unproven

5.12.7 Observations of potential contamination included presence of demolition material, a hydrocarbon odour noted in soils and a solvent odour noted in soils (all at the Milforge sub-site). No free phase hydrocarbons were recorded.

- 5.12.8 The geo-environmental risk assessment utilises chemical data from two reports (Quantum, 2015 & Quantum, 2016). The data is summarised in a table in their Appendix B. Commercial land use Generic Assessment Criteria (GACs) and C4SLs plus CLEA-model derived criteria were used to make the assessment.
- 5.12.9 The geo-environmental risk assessment found exceedances against the criteria for beryllium (1 no. sample from trial pit TP704 at 2.1 m bgl), PAH/SVOC (1 no. sample from trial pit TP902 at 3.0 m bgl), plus positive detects for a number of contaminants including PCBs. PCBs were detected above the laboratory limit of detection (LOD) in samples from borehole BH801, borehole BH802 (marginal) and from trial pit TP902 (marginal). Further assessment with respect to PCBs was recommended.
- 5.12.10 Asbestos was recorded in 16 out of 73 samples analysed. This was detected as loose fibres, insulation lagging and woven product (rope). Quantification testing found asbestos in all samples to be below the LOD.
- 5.12.11 A controlled waters assessment was undertaken which used leachability data (from 2016 Quantum investigation) and Environmental Quality Standards (EQS). This controlled waters assessment did not include the Gate 4 area as it was considered to be in connection with the estuary water. In other areas, the underlying principal aquifer was considered to be the main receptor (drinking water standards and freshwater standards were used).
- 5.12.12 Exceedances of the controlled waters assessment criteria were recorded for lead (in a sample from a trial pit in the Gate 1 sub-site, and in 2 no. samples from boreholes in the Milforge sub-site), copper (in all 5 no. borehole samples from the Milforge sub-site). The controlled waters assessment concluded that the contamination at the sub-sites included is unlikely to cause an unacceptable risk.
- 5.12.13 A gas risk assessment was undertaken, based on monitoring from 2 no. boreholes at Gate 1 sub-site, 1 no. borehole at Gate 4 sub-site and 2 no. boreholes at Milforge sub-site. 2 no. monitoring rounds were undertaken. The maximum recorded results were; maximum methane 0.1%, maximum CO2 7.0%, maximum CO 13ppm, maximum H2S 0 ppm, maximum flow 0.4 l/hr.
- 5.12.14 The worst case assessment found the sites included the assessment conform to Characteristic Situation CS2 (due to elevated concentrations of CO2). Royal Haskoning recommend further gas monitoring in their report. In addition to the above gas risk, protection measures for radon gas are also likely to be required.

5.13 Summary of Source of Contamination by Area

5.13.1 The Draft Masterplan (*Drawing JPW1115-04*) shows that new buildings are proposed; in the northwest (including infilling of the Graving Dock), in the southwest (including infilling of Timber Pond) and in Milforge Site. Additionally, it is shown that an area between Slipway 1 and Slipway

2 will be removed to make a wider slipway. The relevant contamination sources, and associated reports/investigations, in these areas of development are given below.

North West of Gate 4 Area/Graving Dock

- 5.13.2 Historical maps show the following potential sources of contamination in this area: coal bin and oil tanks (immediately off-site to the west).
- 5.13.3 In addition to these potential sources, the following were noted during the site reconnaissance visit in this area: paint store, scrap yard and garage (on land not owned by MHPA), and an electricity sub-station.
- 5.13.4 An investigation by Quantum, discussed in Section 5.11 (*Ref. 12*), included two boreholes in the area around the Graving Dock. Chemical laboratory analysis certificates are included, for samples from these boreholes, in the report reviewed by RPS. Asbestos, tin, TPH and PAH are notable contaminants present in the analysis.
- 5.13.5 As discussed in Section 5.12 (*Ref. 14*), a previous geo-environmental risk assessment reported positive detects for a number of contaminants including asbestos and PCBs. Further assessment with respect to PCBs was recommended to fully understand the risks to human health and controlled waters from PCBs.
- 5.13.6 Risks to controlled waters were also assessed as part of a previous investigation (*Ref. 14*). This concluded that, while exceedances of the assessment criteria were recorded for lead, it is unlikely that there is an unacceptable risk to identified controlled water receptors.

Slipway Widening

- 5.13.7 The interview with site staff indicated that during repairs to Slipway 1, evidence of oil contamination was observed below the slipway slabs. This is possibly related to the Sea Empress oil spill, in 1996, which occurred in the Milford Haven Estuary adjacent to the Assessment Site.
- 5.13.8 According to the Enviros report discussed in Section 5.3 (*Ref. 9*), Tributyl tin and other metals were encountered in sediment samples from the ends of slipways. Previous investigations in this area include an investigation by Enviros (see Section 5.4); however where the chemical laboratory data should be in the appendix, this is absent in the version reviewed by RPS. No other reports reviewed by RPS give any original chemical data for this area.

South West of Gate 4 Area/Timber Pond

- 5.13.9 Historical maps show the following potential sources of contamination in this area: tar tank, gas works (immediately off-site to the south), oil tanks (immediately off-site to the west), sediment in Timber Pond, electricity sub-station and coal silos.
- 5.13.10 In addition to these potential sources, the following were noted during the site reconnaissance visit in this area: fuelling point and a burnt area of grass.

5.13.11 Previous investigations in this area include an investigation by Enviros (Section 5.4); however where the chemical laboratory data should be in the appendix, this is absent in the version reviewed by RPS. No other reports reviewed by RPS give any original chemical data for this area.

Milforge Site

- 5.13.12 The site reconnaissance visit, and previous reports, noted demolition material in this area including asphalt and concrete.
- 5.13.13 Historically, this area has been used as paddocks, gardens and tennis courts.
- 5.13.14 An investigation by Quantum, discussed in Section 5.11 (*Ref. 12*), included boreholes, trial pits and hand dug pits in this area. Chemical laboratory analysis certificates are included, for samples from these exploratory locations, in the report reviewed by RPS. Asbestos, tin, TPH and PAH are notable contaminants present in the analysis.
- 5.13.15 As discussed in Section 5.12 (*Ref. 14*), a previous investigation reported the demolition material present to include asbestos and to be of hazardous waste classification (although as discussed the reason is not given). During the investigation discussed in Section 5.12, observations of contamination included a hydrocarbon odour and a solvent odour noted in soils in the Milforge Site. The previous geo-environmental risk assessment (*Ref. 14*) reported exceedances against the commercial land use criteria for PAH/SVOC (1 no. sample from trial pit TP902 at 3.0 m bgl), plus positive detects for a number of contaminants including PCBs.
- 5.13.16 Risks to controlled waters were also assessed as part of a previous investigation (*Ref. 14*). This concluded that, while exceedances of the assessment criteria were recorded for copper and lead, it is unlikely that there is an unacceptable risk to identified controlled water receptors.

Gaps in Ground Investigation Data

- 5.13.17 All but 2 no. of the reports which have been made available to RPS contain only summary tables of chemical analysis (soil) data, without original laboratory certificates reconciling specific data to specific locations/depths. The 2 no. reports which include full laboratory certificates for the chemical soil testing are:
 - Phase I Ground Investigation Interpretative Report, Pembroke Dock Port, by Quantum Geotechnical on behalf of Milford Haven Port Authority, ref: G624/IR, dated April 2015 (*Ref.* 11); and
 - Milford & Pembroke Docks, Ground Investigation Factual Report, by Quantum Geotechnical Ltd on behalf of Milford Haven Port Authority, ref: G778/FR, rev 1, dated June 2016 (*Ref.* 12).
- 5.13.18 Of the above, the first report listed covers the Gate 1 area only i.e. an area where no significant development is proposed. The second report listed above includes ground investigation in the

- Milforge Site area plus two boreholes in the slipway infill area. No investigation was carried out in the southwest as part of this investigation.
- 5.13.19 Groundwater data is absent from for all areas to be developed, and gas data is absent for some of the areas to be developed.
- 5.13.20 There have been recommendations for further testing and assessment for some contaminants, as concluded in some of the previous reports, for example PCBs. It is also noted that given the dates of some of the earlier reports, it is likely that the data may no longer be able to be relied on in order to provide a suitable assessment as part of a planning application.
- 5.13.21 A full scoping exercise should be carried out to develop a programme of further intrusive investigation.

6 Conceptual Site Model and Preliminary Risk Assessment

6.1 General

- 6.1.1 Information from the previous sections has been used to form the Conceptual Site Model (CSM) and Preliminary Risk Assessment (PRA) below.
- 6.1.2 In line with CLR-11 guidance (*Ref. 7*), a CSM and PRA have been developed to qualitatively assess potential contaminant sources, receptors and potential pollutant linkages identified at the Assessment Site. The risk level relevant to each linkage is stated in the context of potential risk to future site users based on the proposed continued commercial use, as well as controlled water receptors.

6.2 Site Conceptual Model

- 6.2.1 The general ground conditions at the Assessment Site comprise Made Ground over superficial Head Deposits (where present), Mudstone (where present) overlying weathered limestone and competent limestone bedrock.
- 6.2.2 Previous intrusive and desk-based investigations have been carried out. Where these have included risk assessments these were assessed against commercial land use human health criteria and concluded that the site is generally suitable for continued commercial land use.
- 6.2.3 Historical and current sources of contamination are present in the areas of proposed development, as per the masterplan *Drawing JPW1115-04*. These are set out by area in Section 5.13 and in the section below.
- 6.2.4 Whilst there is significant amount of information available from the previous assessments there are areas of the Assessment Site for which data is not available. This primarily relates to the central part of southern Assessment Site area and the eastern part of the northern Assessment Site area. Whilst these areas have been investigated and reported on by Enviros in 2004, the reports and associated data is not available.

6.3 Preliminary Risk Assessment

Potential Contamination Sources

- 6.3.1 The following potential contamination sources at the Assessment Site have been identified:
 - Chemical contamination associated with the current on-site uses including storage of fuel oil, scrap yard, presence of electrical sub-stations Made Ground and spoil heaps (potential hydrocarbons, PCBs and asbestos contamination);
 - Chemical contamination associated with the historical use of the Assessment Site (including military usage), including localised tanks, railway lines, electrical sub-stations, car

- dealers/breakers, manufacturing/engineering (potential hydrocarbons, solvents, PCBs, heavy metals, ground gas/vapours and asbestos contamination);
- Chemical contamination associated with historical off-site gas works and Depot feature to the south (potential ground gas/vapours to migrate to Assessment Site);
- Chemical contamination of shallow/perched groundwater (potential cyanide, hydrocarbons, solvents, PCBs, heavy metals and vapours); and
- Fuel contamination associated with the Sea Empress oil spill, in 1996, which occurred in the Milford Haven Estuary adjacent to the Assessment Site. The interview with site staff indicated that during repairs to Slipway 1, evidence of oil contamination was observed below the slipway slabs.
- 6.3.2 The risk assessment is based on a proposed future commercial use of the Assessment Site. **Table** 6-1 presents Sources, Pathways and Receptors used in this context. Should a different land use be proposed, this CSM and PRA should be reassessed.

Table 6-1 Summary of Pollutant (Source-Pathway-Receptor) Linkages

Source	Pathway	Receptor	Risk	Notes
		Low to mediu		Current onsite activities are broadly well managed (no staining around tanks, tanks
				are of modern construction and double-skinned) with the possible exception of the
	Ingestion and			scrap yard/garage where oil sheens were observed on bare ground outside.
	dermal contact of			No data is available for this area around the 'Triangle' and as such the risk from
	soil; Inhalation of		Low to medium	soils in these areas is unknown (presumed medium, in the absence of site-specific
	dust/asbestos fibres			data). Further intrusive investigation is recommended where there are data gaps in
	dust/aspesios libres	Future Site		areas of proposed development. The potential for these contamination pathways
		Users;		to be present to future users is limited due to the minimal soft standing present.
Chemical contamination		Construction		Risks to construction workers can be mitigated by appropriate PPE.
associated with the current			workers	The current activities have the potential to give rise to hydrocarbon vapours in
continued on-site uses				soils/groundwater which could migrate into buildings and therefore gas monitoring
including storage of fuel oil, scrap yard and presence of				is recommended in areas where buildings are proposed. The limited ground gas
			1	monitoring data to date indicates that the Assessment Site conforms to CS2,
	gas/vapours		Low	meaning that gas protection measures are required. Radon protection measures
(potential hydrocarbons				are also likely to be required. Once gas protection has been adopted, the risk is
and PCBs)				considered to be low. Further intrusive investigation is recommended where there
				are data gaps in areas of proposed development
				Current activities may have given rise to hydrocarbons in soils/groundwater which
				could contribute to aggressive conditions. Further testing in specific areas is
	Direct contact of	Buildings,		recommended (risk is presumed medium in the absence of site-specific data).
	aggressive ground	structures,	Low to medium	Various reports have assessed the aggressiveness to concrete in Gate 1 area to
	conditions	water pipes		be between DS-1 and DS-2. Where hydrocarbons are elevated, these pose a risk
				to concrete and to water pipes. Further intrusive investigation is recommended
				where there are data gaps in areas of proposed development

Source	Pathway	Receptor	Risk	Notes
				Hardstanding at the Assessment Site limits infiltration however drains in poor
	Leaching; Migration	Deep		repair may be present. Previous assessment (Ref. 14) has concluded that the risk
	of contaminated	groundwater	Low to medium	to controlled water is unlikely to be unacceptable. No data is available for parts of
		and surface	Low to medium	the Assessment Site (risk is presumed medium in the absence of site-specific
	groundwater	waters		data). Further intrusive investigation is recommended where there are data gaps in
				areas of proposed development
				Previous risk assessments have indicated that the concentrations of contaminants
				in soils were below commercial land use thresholds, at the time. Providing that
				areas of soft landscaping remain minimal, the presumed risk is considered to be
Chemical contamination				low, for commercial land use. Clean cover soils may be required where soft
associated with the	Ingestion and			landscaping is present, to prevent direct contact. Standard precautions should be
historical use of the	dermal contact of		Low to medium	taken during construction works, plus asbestos control measures where relevant.
Assessment Site, including	soil; Inhalation of		Low to ineciam	No data is available for parts of the Assessment Site (risk is presumed medium in
localised tanks, railway	dust/asbestos fibres			the absence of site-specific data). Further intrusive investigation is recommended
lines, electrical sub-		Future Site		where there are data gaps in areas of proposed development. The potential for
stations, car		Users;		these contamination pathways to be present to future users is limited due to the
dealers/breakers,		Construction		minimal soft standing present. Risks to construction workers can be mitigated by
manufacturing/engineering		workers		appropriate PPE a strict personal hygiene regime to avoid skin contact/ingestion.
(potential hydrocarbons,				The current activities have the potential to give rise to hydrocarbon vapours in
solvents, PCBs, heavy				soils/groundwater which could migrate into buildings and therefore gas monitoring
metals, ground				is recommended in areas where buildings are proposed. The limited ground gas
gas/vapours and asbestos	Inhalation of ground		Law	monitoring data to date indicates that the Assessment Site conforms to a
contamination);	gas/vapours		Low	characteristic situation 'CS2' (low risk) meaning that gas protection measures are
				required. Radon protection measures are required. Once gas protection has been
				adopted, the risk is considered to be low. Further intrusive investigation is
				recommended where there are data gaps in areas of proposed development

Source	Pathway	Receptor	Risk	Notes
	Direct contact of aggressive ground conditions; Migration of gas/vapour into confined spaces	Buildings, structures, water pipes	Low to medium	Various reports have assessed the aggressiveness to concrete in Gate 1 area to be between DS-1 and DC-2. Further testing at the Milforge sub-site was recommended by Royal Haskoning. No data is available for parts of the Assessment Site and therefore further assessment is recommended (risk is presumed medium in the absence of site-specific data). Where hydrocarbons are elevated in soils/shallow groundwater, these pose a risk to concrete and to water
	Leaching; Migration of contaminated groundwater	Deep groundwater and surface waters	Low to medium	Hardstanding at the Assessment Site limits infiltration however drains in poor repair may be present. Previous assessment (<i>Ref. 14</i>) has concluded that the risk to controlled water is unlikely to be unacceptable. No data is available for parts of the Assessment Site (risk is presumed medium in the absence of site-specific data). Further intrusive investigation is recommended where there are data gaps in areas of proposed development
Chemical contamination associated with historical off-site gas works and sewage works and Depot	Inhalation of ground gas/vapours	Future Site Users; Construction workers	Low	The limited ground gas monitoring data to date indicates that the Assessment Site conforms to characteristic situation 'CS2' (low risk), meaning that gas protection measures are required. In addition, radon protection measures are required. Organic vapours present a risk and as such any gas protection measures should
feature to the south (potential for ground gas/vapours to migrate to Assessment Site)	Migration of gas/vapour into confined spaces (explosion/fire risk)	Buildings, structures, water pipes	Low	take this into account. Once typical gas protection measures have been adopted the risk is considered to be low. Further intrusive investigation is recommended where there are data gaps in areas of proposed development.

Source	Pathway	Receptor	Risk	Notes
Chemical contamination of shallow/perched groundwater (potential cyanide, hydrocarbons, solvents, PCBs, heavy metals and vapours).	Leaching; Migration of contaminated groundwater	Deep groundwater and surface waters	Low to medium	Previous assessment (<i>Ref. 14</i>) has concluded that the risk to controlled water is unlikely to be unacceptable. No data is available for parts of the Assessment Site (risk is presumed medium in the absence of site-specific data). Further intrusive investigation is recommended where there are data gaps in areas of proposed development.

7 Conclusions

- 7.1.1 RPS was commissioned by Milford Haven Port Authority to undertake a Phase 1 Desktop Study (DTS) and Preliminary Risk Assessment (PRA) report to support the Outline Planning Application for the proposed Pembroke Dock Infrastructure development.
- 7.1.2 The proposed redevelopment of the Assessment Site comprises the creation of transport corridors, open-air lay down areas, increased dockside space and buildings for a variety of engineering purposes. The proposed design includes infilling of a Graving Dock and timber pond, and widening of a slipway.
- 7.1.3 Previous reports provided by the Client have been reviewed and summarised as part of this assessment.
- 7.1.4 RPS undertook a site reconnaissance visit as part of this report. An annotated plan and photographs are provided.
- 7.1.5 Potential contamination sources at the Assessment Site have been identified including current on-site uses of fuel oil storage, use as a scrap yard, presence of electrical sub-stations and spoil heaps (potential hydrocarbons, PCBs and asbestos contamination), historical use including localised tanks, railway lines, electrical sub-stations, car dealers/breakers, manufacturing/engineering (potential hydrocarbons, solvents, PCBs, heavy metals, ground gas/vapours and asbestos contamination), historical off-site gas works and Depot feature to the south (potential ground gas/vapours to migrate to Assessment Site), chemical contamination of shallow/perched groundwater and current off-site sewage works (potential cyanide, hydrocarbons, solvents, PCBs, heavy metals, gases and vapours). A loss of fuel in the Milford Haven Estuary (Sea Empress in 1996) may also be a source of hydrocarbons in coastal sediments.
- 7.1.6 A preliminary risk assessment based on a proposed future commercial use of the Assessment Site has been carried out. It is considered that the maximum risk is low to medium, for risks to human health from chemical contamination of soils/groundwater and ground gas. It is considered that the maximum risk is low to medium, for risks to buildings and structures from aggressive ground conditions and potential explosion/fire risk from ground gas. It is considered that the maximum risk is low to medium, for risks to controlled waters. The risk from UXO is considered to be low in the areas of proposed development.
- 7.1.7 Current data is not available for all parts of the Assessment Site which are proposed to be developed. Whilst some of the available data is relatively old (2006) it is considered that it is likely to have characterised the historical contamination sources and contaminating activities at the Assessment Site. It is therefore recommended that further targeted intrusive investigation is undertaken in the specific areas of the Assessment Site not previously characterised and that the existing data is reassessed against current standards to confirm the need for mitigation with respects to contamination at the Assessment Site. Such investigation would also allow the

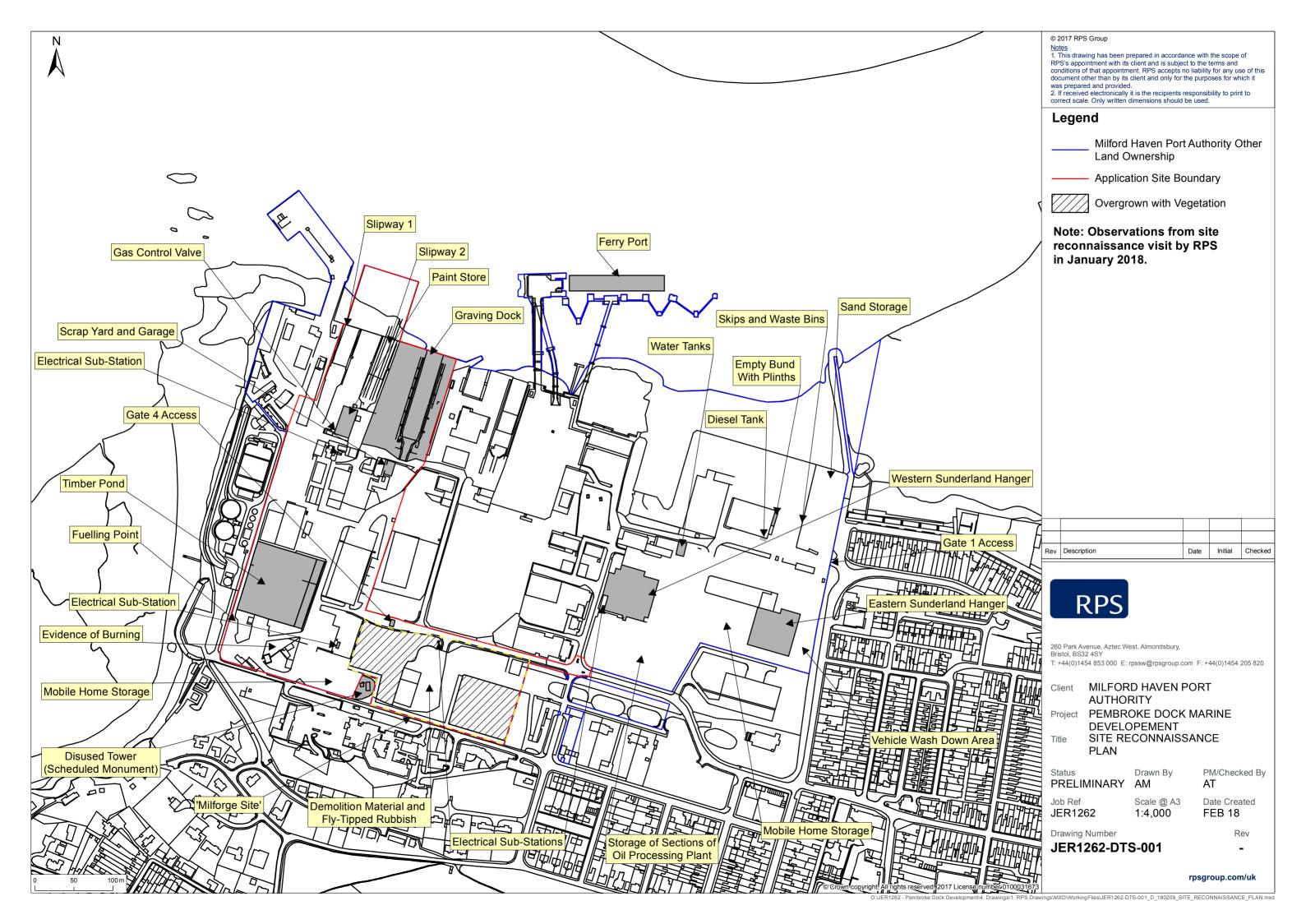
the limestone	bedrock to be	refined for the	areas investig	ated.		

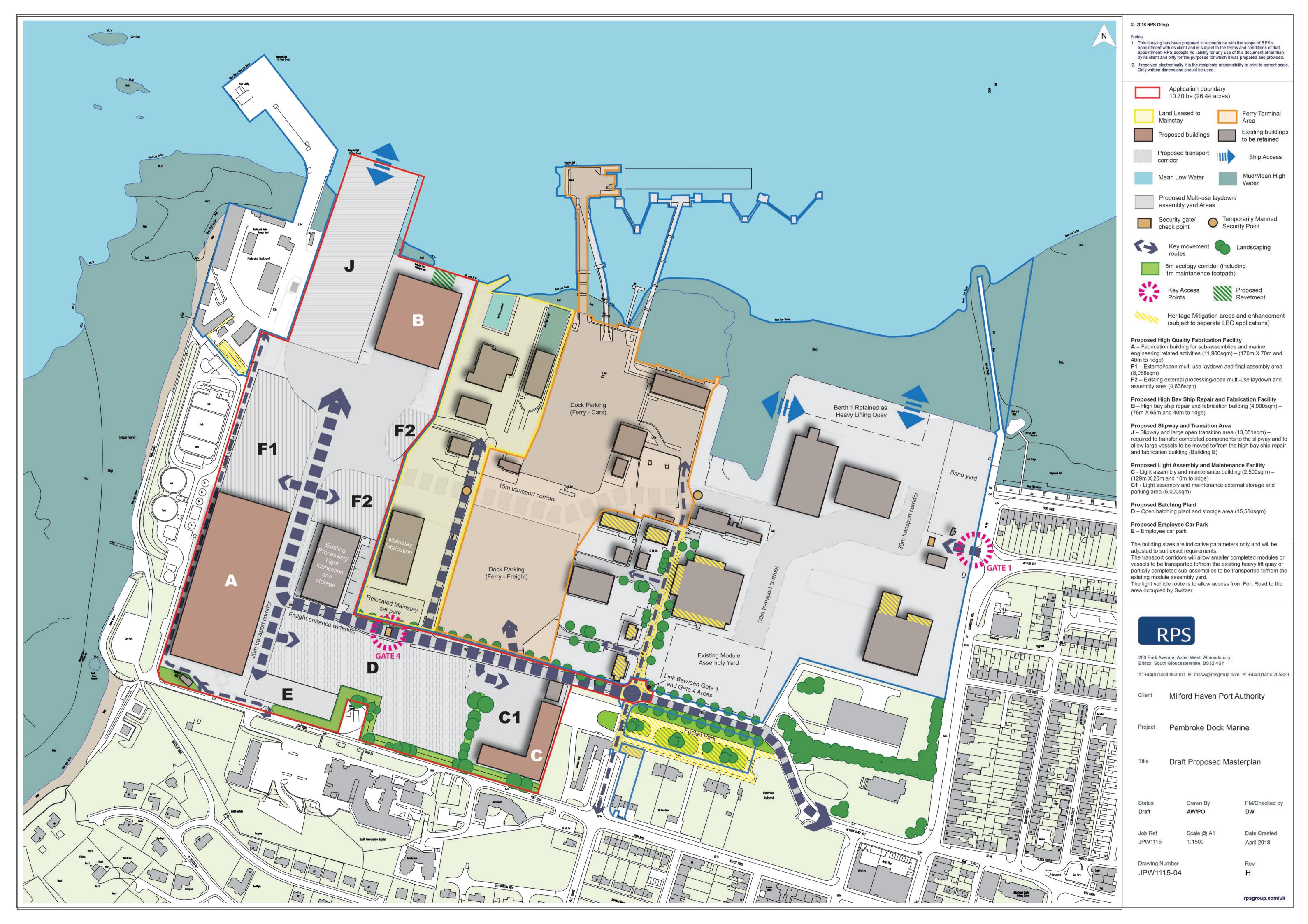
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Drawings





Appendices

Appendix 1

Desk-Top Study Methodology

Introduction

This report provides available factual data for the site obtained only from the sources described below and related to the site on the basis of the location provided by the client. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.

This report is written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission. The report is provided for sole use by the client and is confidential to them and their professional advisors. No reliance whatsoever is provided to any party other than the client unless otherwise agreed.

Information Sources

Land Use

This section establishes the former and current uses of the site, which could have caused contamination. Details of the site location, the current and proposed site uses have been provided by the client.

Where specified, a site inspection has been carried out by RPS to identify any significant issues associated with current and past activities, neighbouring land uses and other key environmental issues.

Information about the history of the site has been obtained through an inspection of historical maps at 1:10,000, 1:2,500 and 1:1,250 scales (where available). The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between, and subsequent to, the map survey dates.

Regulatory records including landfills, pollution incidents ('major' and 'significant' only), industry authorisations and licensed water abstractions are derived from information purchased from Landmark Ltd (unless otherwise specified).

Environmental Setting

It is important to establish the environmental setting because, irrespective of the level of contamination at a site, if its location is not 'sensitive' to this contamination, there is a reduced risk of an environmental liability.

The geological sequence underlying the site and the approximate depths of strata are provided by maps published by the British Geological Survey (BGS) 1:50,000 scale. The hydrogeological classification is obtained from Groundwater Vulnerability mapping on the Environment Agency (EA) website. The vulnerability of groundwater is determined from this mapping and geological information.

The location of surface watercourses is obtained from an inspection of current OS maps. Surface water quality information is taken from the most up-to-date Chemical River Quality General Quality Assessment (GQA) details published by the EA. Flood risk details and information on groundwater Source Protection Zones are obtained from readily available EA information published on-line.

Details of sensitive ecosystems/habitats and coal mining areas are supplied by English Nature and the Coal Authority respectively via Landmark Ltd.

Radon is a radioactive gas produced naturally by certain types of geology. This report uses the Indicative Atlas of Radon in England and Wales (2007) produced by the Health Protection Agency (HPA) and the British Geological Survey (BGS) to determine whether the site is located in an area at risk from radon gas. Where potential issues are identified, a site-specific radon report is obtained from the HPA and BGS to provide a more accurate estimate of the probability of the site being affected by radon gas ingress.

Risk Assessment

The Risk Assessment consists of an appraisal of the source-pathway-receptor 'pollutant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.

- Source of contamination (Hazard);
- Pathway for the contaminant to move from the source(s) to receptor(s); and
- Receptor (Target) that could be affected by the contaminant(s).

Receptors include human beings, other living organisms, crops, controlled waters and buildings / structures. The mere presence of a contaminant source / hazard at a site does not mean that there will necessarily be attendant risks or that the site will be designated as 'contaminated land'.

The Risk Assessment sections comprise a summary of the land use and environmental sensitivity information demonstrated as the contaminant Source, Pathway and Receptor components. It also incorporates its likelihood of occurrence and commercial impact. It has been classified under three broad categories:

- Low risk it is considered unlikely that issues assigned this designation will give rise to significant harm;
- Medium risk it is possible, but not certain that issues assigned this designation may give rise to significant harm or a liability/cost for the owner of the site; and
- High risk there is a high potential that issues assigned this designation may give rise to significant harm or a liability/cost for the owner of the site.

In addition the assessment includes consideration of redevelopment constraints i.e. potential for extraordinary environment-related development costs, the site's 'suitability for use' and the perception by any future purchasers regarding the potential impact on investment value/saleability. The assessment of redevelopment constraints should be considered preliminary and does not represent an exhaustive assessment of potential constraints.

Appendix 2

Photographic Record



Plate 01: Facing north towards estuary from Gate 1. Security hut on the right.



Plate 02: Facing west, towards Western Sunderland Hanger and water tanks.



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Date: Feb 2018



Plate 03: Skips and waste bins north of security gate Gate 1.



Plate 04: Facing north towards estuary. Modern diesel tank on warehouse corner. Former tank bund (yellow) adjacent.



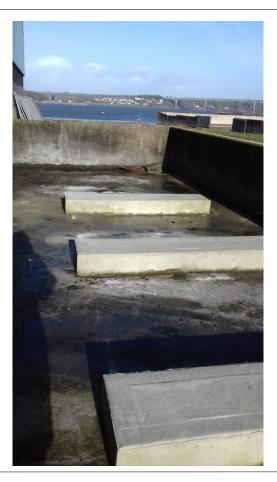


Plate 05: Former tank bund and plinths.

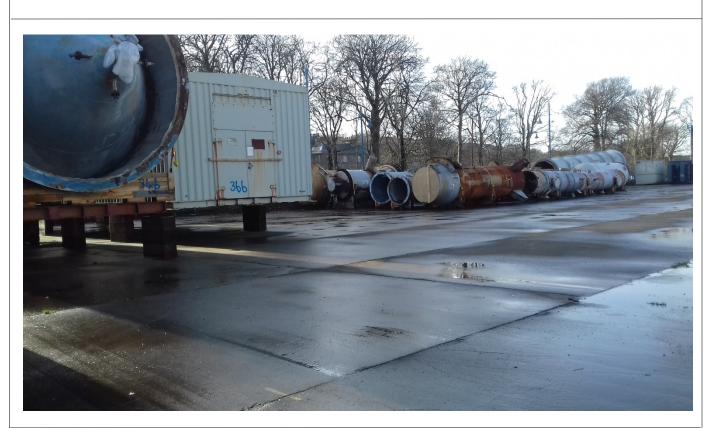


Plate 06: Facing south. Showing section of oil processing equipment. Trees along Meyrick Owen Way visible in rearground.



260 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4SY



Plate 07: Disused tower, fenced off and not part of the Assessment Site.



Plate 08: Overgrown vegetation at Milforge Site, facing residential properties offsite to the south of the Assessment Site.



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Plate 09: Demolition rubble in mounds at Milforge Site. Disused warehouse buildings in rearground.

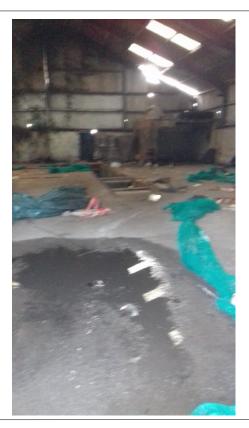


Plate 10: Possible inspection pit in floor of disused warehouse at Milforge Site.



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Plate 11: Fly-tipped waste outside warehouse in Milforge Site.



Plate 12: Facing southwest. Showing eastern sloping side of Timber Pond.



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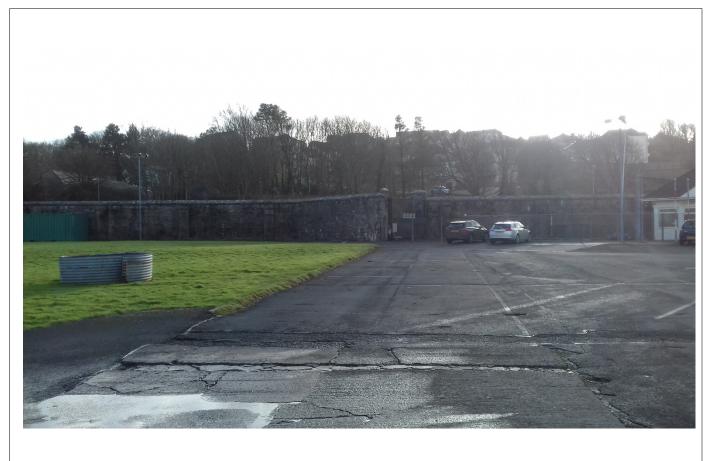


Plate 13: Facing south towards Assessment Site boundary wall. Circular burnt area to the left.



Plate 14: Fuelling point in southwest corner. Facing north.



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Checked By: DRAFT Date: Feb 2018



Plate 15: Facing north towards the estuary. Showing Slipway 1.

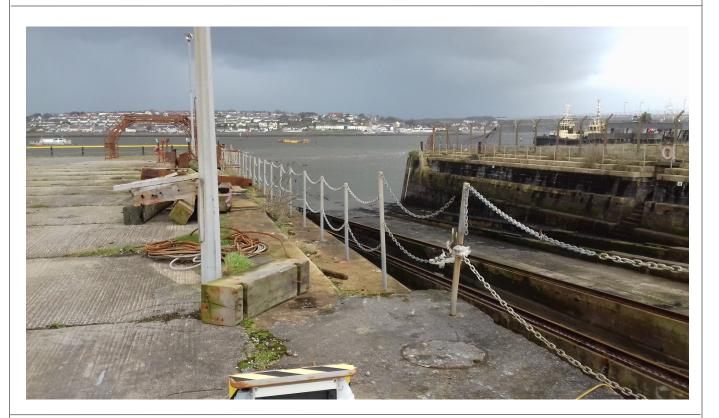


Plate 16: Facing north towards the estuary. Showing Slipway 2.



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Plate 17: Gas supply control valve, south of Slipway 1. Facing northwest.



Plate 18: Chemical store at Slipway 2.



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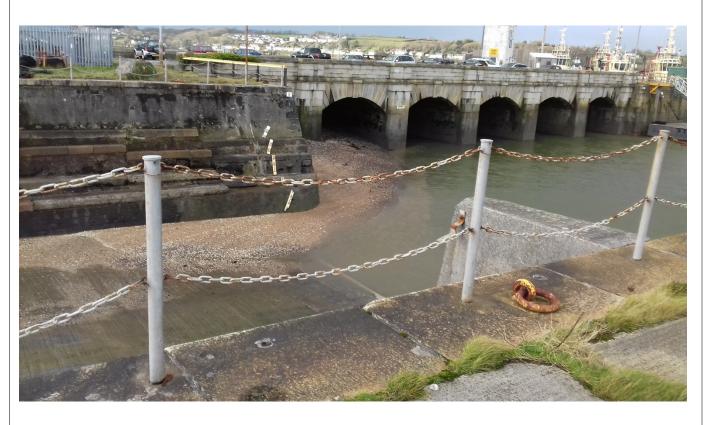


Plate 19: End of Slipway 1 at low tide. Facing northwest.



Plate 20: Showing graving dock in the north of the Assessment Site. Facing north.



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260 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4SY



Plate 21: Oily sheen observed on rainwater puddles between graving dock and scrap yard.



Plate 22: Electrical sub-station present between Slipway 2 and 'triangle' area of land not owned by MHPA.



Project: Pembroke Dock

Job Ref: JER1262 Checked By:

Checked By: DRAFT Date: Feb 2018

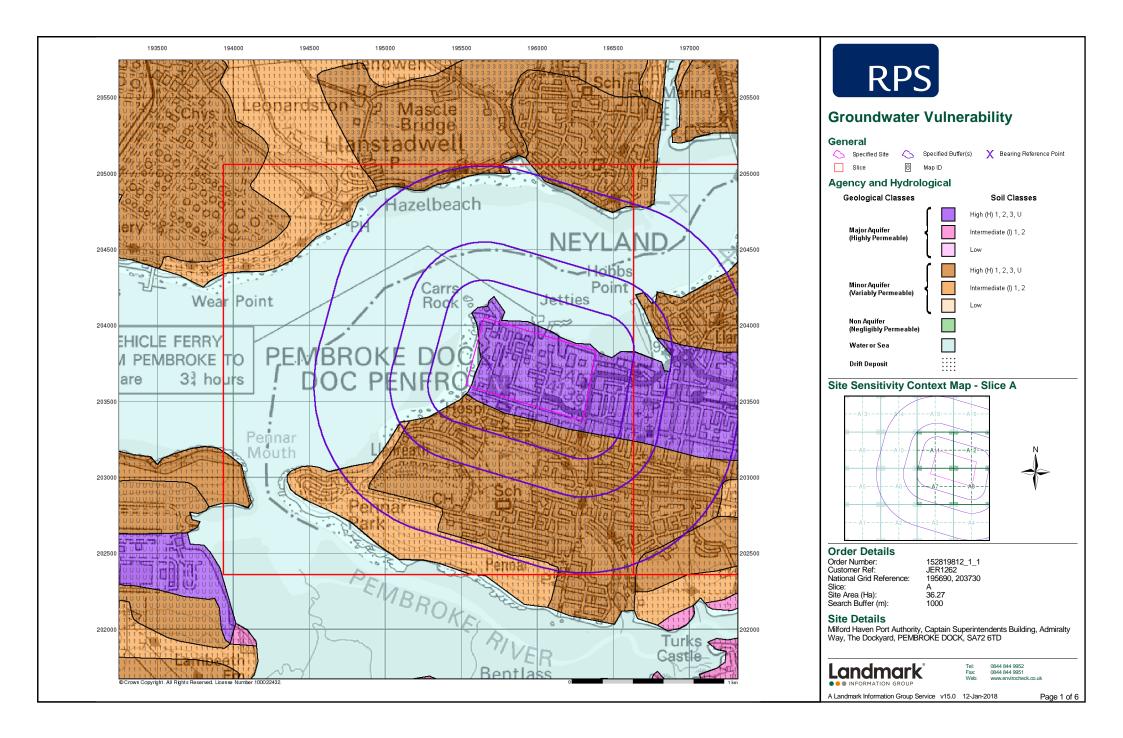


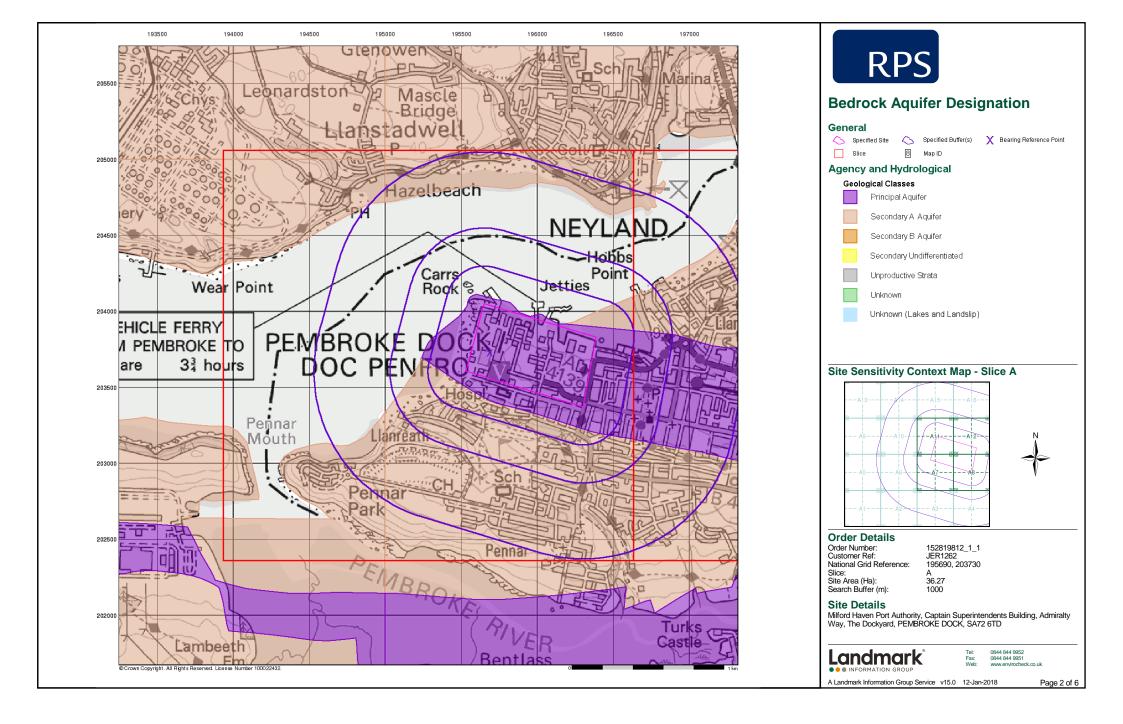
Plate 23: Vegetation and hardstanding at the graving dock. Facing northeast, towards ferry port.

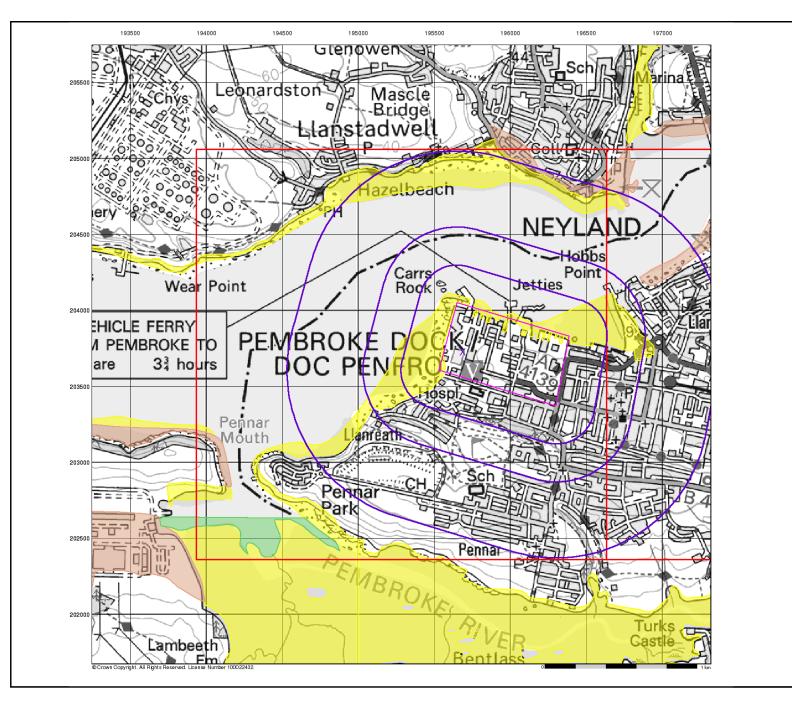


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Envirocheck Professional Report including historical maps









Superficial Aquifer Designation

General

Specified Site Specified Buffer(s) X Bearing Reference Point

8 Map ID Slice

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

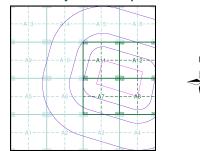
Secondary B Aquifer

Secondary Undifferentiated

Unproductive Strata Unknown

Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

152819812_1_1 JER1262 195690, 203730 Order Number: Customer Ref: National Grid Reference: A 36.27

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

Site Details

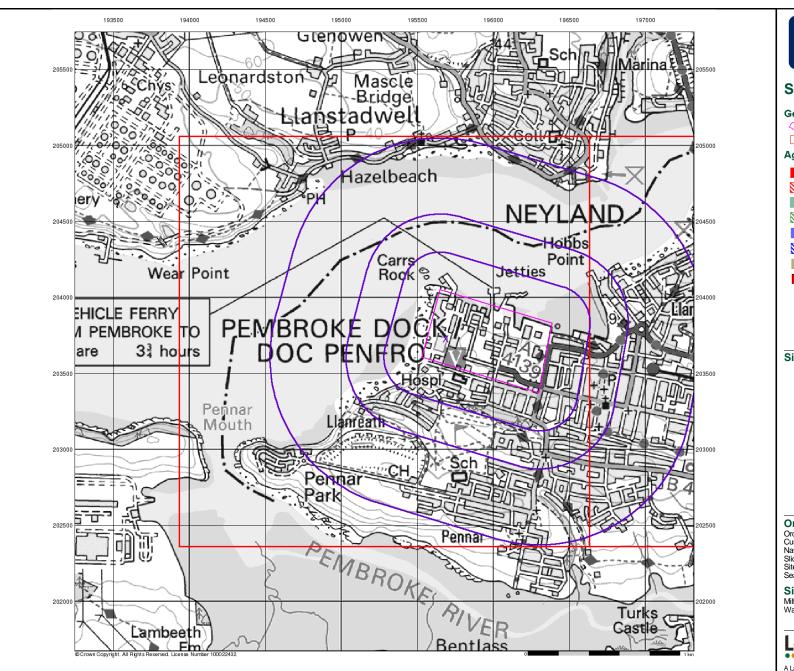
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952 0844 844 9951

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Source Protection Zones

General

Specified Site Specified Buffer(s) X Bearing Reference Point

8 Map ID Slice

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)

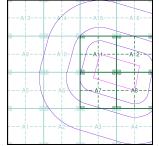
Total catchment (Zone 3)

Total catchment - subsurface activity only (Zone 3c)

Special interest (Zone 4)

Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A





Order Details

152819812_1_1 JER1262 195690, 203730 Order Number: Customer Ref: National Grid Reference: A 36.27

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

Site Details

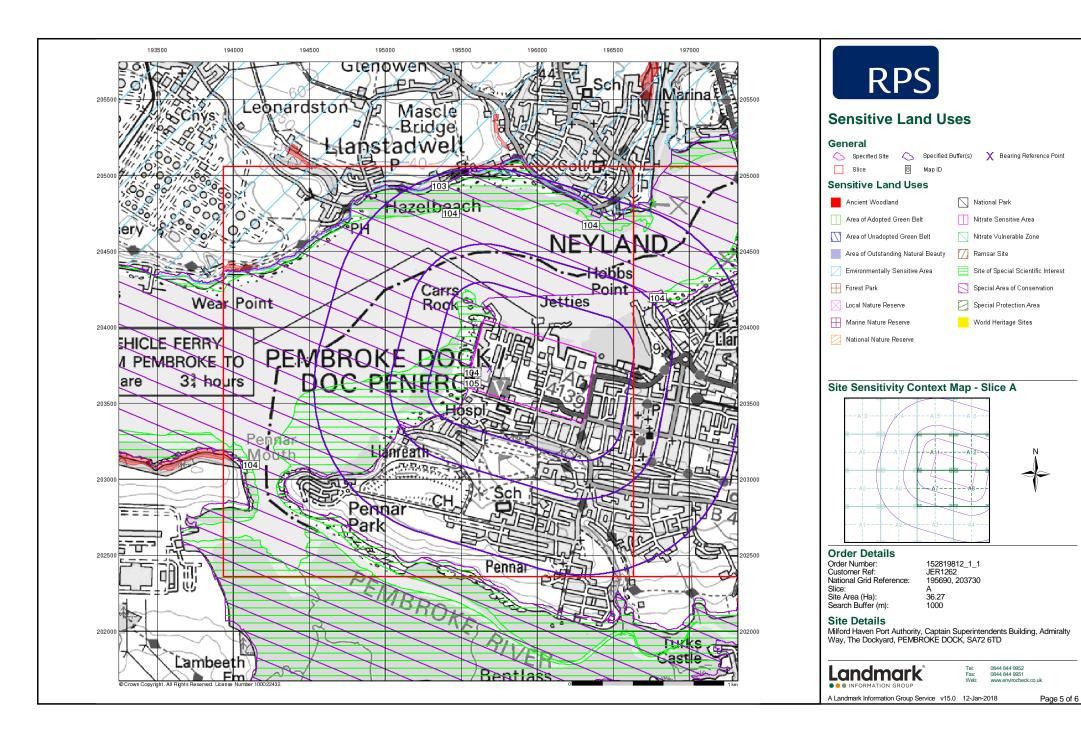
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

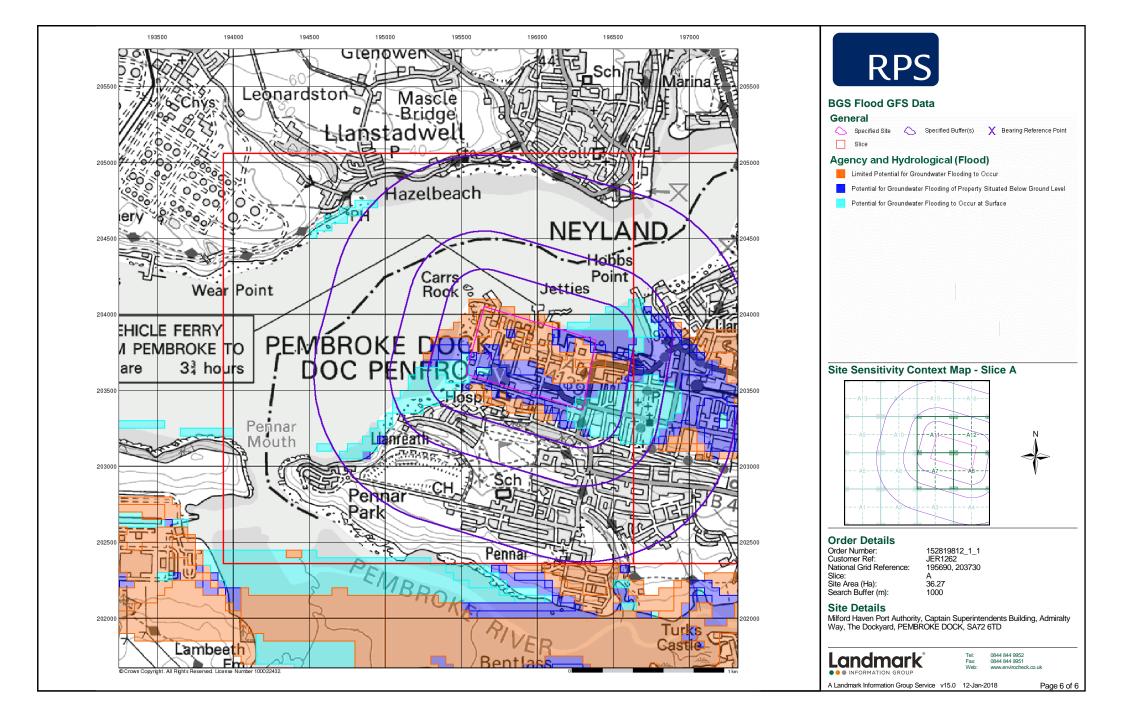


0844 844 9952 0844 844 9951

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:

152819812_1_1

Customer Reference:

JER1262

National Grid Reference:

195690, 203730

Slice:

Α

Site Area (Ha):

36.27

Search Buffer (m):

1000

Site Details:

Milford Haven Port Authority Captain Superintendents Building Admiralty Way, The Dockyard PEMBROKE DOCK SA72 6TD

Client Details:

Ms A Thomas RPS Consultants 260 Park Avenue Aztec West Almondsbury Bristol BS32 4SY







Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	20
Hazardous Substances	22
Geological	23
Industrial Land Use	25
Sensitive Land Use	30
Data Currency	31
Data Suppliers	35
Useful Contacts	36

Introduction

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

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

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Report Version v53.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3	2	5	9	14
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 11	1			
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11	Yes			
Pollution Incidents to Controlled Waters	pg 11	2	2	6	8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 14	1		1	
Water Abstractions	pg 14				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 14	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 15	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 15	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15			17	17



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 20				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 20	4			
Local Authority Landfill Coverage	pg 21	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 21				1
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 21	1	2		
Registered Landfill Sites	pg 21		1		
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites	pg 22	1			
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 23	Yes	Yes		
BGS Recorded Mineral Sites	pg 23	1			
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 23	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 24	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 24	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 25	22	4	1	4
Fuel Station Entries	pg 27				1
Points of Interest - Commercial Services	pg 27		1		
Points of Interest - Education and Health	pg 27		4		
Points of Interest - Manufacturing and Production	pg 28	13			1
Points of Interest - Public Infrastructure	pg 29	1			
Points of Interest - Recreational and Environmental	pg 29		2		4
Gas Pipelines					
Underground Electrical Cables					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 30				1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 30	1			
Special Areas of Conservation	pg 30	1			
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	A11SW (W)	0	1	195600 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	195700 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	0	1	196150 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW	0	1	196200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) A11SE	0	1	195687
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	203850 195800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	203850 196100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	196350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	(E) A12SW (E)	0	1	203750 196100 203800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SW (W)	0	1	195550 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NW)	0	1	195650 203750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	196200 203750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	0	1	196100 203900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	195687 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	195750 203700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	196200 203550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (S)	0	1	195687 203650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NE)	0	1	195850 203800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	196300 203800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (E)	0	1	196250 203700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve		0	1	195900 203450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (NE)	4	1	196000 203950



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE	6	1	195687
		(S)	0		203550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SW (E)	14	1	196200 203900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW	20	1	195550
	BGS Groundwater Flooding Susceptibility	(W)			203750
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	20	1	195650 203550
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	24	1	195750 203500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW	33	1	196050 203400
	BGS Groundwater Flooding Susceptibility	(SE)			203400
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (NW)	33	1	195550 203800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE	39	1	195700
	BGS Groundwater Flooding Susceptibility	(S)			203500
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SE)	48	1	195950 203400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW	49	1	195550
	BGS Groundwater Flooding Susceptibility	(SW)			203550
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	53	1	195687 203500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NW	65	1	195500
	BGS Groundwater Flooding Susceptibility	(SW)			203550
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	67	1	196100 203350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE	68	1	195650
	BGS Groundwater Flooding Susceptibility	(S)			203500
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SE)	77	1	195900 203400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW	81	1	196000
	BGS Groundwater Flooding Susceptibility	(SE)			203350
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	85	1	196200 203300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW	100	1	196150
	BGS Groundwater Flooding Susceptibility	(SE)			203300
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	101	1	195687 203450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SE	123	1	196300
	BGS Groundwater Flooding Susceptibility	(SE)			203250
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	127	1	196500 203729
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (E)	163	1	196500 203550



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater F	Flooding Susceptibility				
	Flooding Type:	Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (W)	185	1	195350 203700
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (W)	200	1	195350 203729
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (E)	203	1	196550 203600
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding to Occur at Surface	A12SE (E)	216	1	196600 203750
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	225	1	196600 203729
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	A11SW (W)	226	1	195350 203800
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (E)	234	1	196600 203700
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (W)	234	1	195300 203700
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	A11SW (W)	248	1	195300 203729
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (E)	252	1	196600 203600
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding to Occur at Surface	(E)	343	1	196650 204050
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	357	1	196700 204000
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	383	1	196750 203950
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	415	1	196800 203850
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	420	1	196800 203900
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	480	1	196750 203200
1	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Milford Haven Port Authority Support Services - Inland Transport Pembroke Dock Ferry Terminal, Pembrokeshire, Wales, Sa72 6tw Natural Resources Wales Boundary Of HA 61 & HA 62 Bp027620101 1 27th April 1999 27th April 1999 11th April 2000 Trade Discharges - Site Drainage Not Supplied Milford Haven Estuary New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)	A12SW (NE)	0	2	196000 203920



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Milford Haven Port Authority Support Services - Inland Transport Pembroke Dock Ferry Terminal, Pembrokeshire, Wales, Sa72 6tw Natural Resources Wales Boundary Of HA 61 & HA 62 Bp027620101 2 12th April 2000 27th April 1999 Not Supplied Trade Discharges - Site Drainage Saline Estuary Milford Haven Estuary Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A12SW (NE)	0	2	196000 203920
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Pumping Station - Water Company Pembroke Dock To The Milford H, Pembrokeshire, Wales Natural Resources Wales Boundary Of HA 61 & HA 62 BN0084702 1 10th April 1979 10th April 1979 Not Supplied Public Sewage: Storm Sewage Overflow Saline Estuary Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A7NW (SW)	15	2	195520 203620
3	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Pembroke Dock Crude Outfall Natural Resources Wales Boundary Of HA 61 & HA 62 Bg0050201 1 9th August 1965 9th August 1965 21st November 1996 Sewerage System Discharge Not Supplied Milford Haven Estuary Consent expired Located by supplier to within 100m	A11NW (N)	192	2	195520 204190
3	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Low Level O/Fall Natural Resources Wales Not Supplied Bp0116401 1 13th December 1991 13th December 1991 5th July 1995 Unspecified Not Supplied Dau Cleddau Consent expired Located by supplier to within 10m	A11NW (N)	213	2	195510 204210



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Property Type: Location:	s Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Low Level O/Fall	A11NW (N)	213	2	195510 204210
	Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment:	Natural Resources Wales Not Supplied Bp0116501 1 13th December 1991 13th December 1991 5th July 1995 Unspecified Not Supplied				
	Receiving Water: Status: Positional Accuracy:	Dau Cleddau Consent expired Located by supplier to within 10m				
	Discharge Consent	S				
3	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Pembroke Crude Outfall Natural Resources Wales Boundary Of HA 61 & HA 62 Bg0050101	A11NW (N)	215	2	195520 204220
	Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge	9th August 1965 9th August 1965 21st November 1996 Sewerage System Discharge Not Supplied				
	Environment: Receiving Water: Status: Positional Accuracy:	Milford Haven Estuary Consent expired Located by supplier to within 100m				
	Discharge Consent	S				
4	Operator: Property Type: Location:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire	A11NW (NW)	284	2	195450 204250
	Authority: Catchment Area: Reference: Permit Version:	Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801				
	Effective Date: Issued Date: Revocation Date: Discharge Type:	8th July 2015 8th July 2015 Not Supplied Sewage - Crude To Further Treatment - Water Company				
	Discharge Environment: Receiving Water: Status:	Freshwater Stream/River Milford Haven Waterway Varied under EPR 2010				
		Located by supplier to within 10m				
	Discharge Consent	S				
4	Operator: Property Type: Location:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire	A11NW (NW)	284	2	195450 204250
	Authority: Catchment Area: Reference: Permit Version: Effective Date:	Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801 6 20th December 2013				
	Issued Date: Revocation Date: Discharge Type: Discharge	20th December 2013 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River				
	Environment: Receiving Water: Status: Positional Accuracy:	Milford Haven Waterway Varied under EPR 2010 Located by supplier to within 10m				



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801 5 4th April 2012 4th April 2012 19th December 2013 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Milford Haven Waterway Varied under EPR 2010 Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250
	Discharge Consents	s				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801 4 31st March 2010 31st March 2010 31rd April 2012 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Milford Haven Waterway Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250
	Discharge Consent	s				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801 3 31st December 2005 31st December 2005 30th March 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Milford Haven Waterway Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250
	Discharge Consent	S				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0250801 2 22nd December 2000 21st December 2000 20th January 2006 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Milford Haven Waterway Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 BP0250803 1 31st March 1995 18th November 1994 Not Supplied Public Sewage: Storm Sewage Overflow Saline Estuary Milford Haven Waterway New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A11NW (NW)	284	2	195450 204250
	Discharge Consent	s				
4	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 BP0250801 1 31st March 1995 18th November 1994 21st December 2000 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Milford Haven Waterway New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250
	Discharge Consent					
4	-	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Pembroke Dock Wastewater Treatment, Pembroke Dock Wwtw, Fort Road, Pembroke Dock, Pembrokeshire Natural Resources Wales Boundary Of HA 61 & HA 62 BP0250802 1 31st March 1995 18th November 1994 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven Waterway New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A11NW (NW)	284	2	195450 204250
	Discharge Consent	s				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewerage Network - Pumping Station - Water Company School Garden Sewage Ps, Pennar, Pembroke Dock, Pembrokeshire, Wales, Sa72 6qn Natural Resources Wales Pembroke River Eprdp3822gc 1 26th July 2010 26th July 2010 Not Supplied Sewage Discharges - Pumping Station - Water Company Freshwater Stream/River Trib Of Pembroke River New issued under EPR 2010 Located by supplier to within 10m	A4NE (SE)	633	2	196329 202741



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	S				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	John Allen Developments Sewerage Network - Pumping Station - Others School Garden Sps Pennar Pembroke, Pennar, Pembroke Dock, Pembrokeshire, Sa72 6ny Natural Resources Wales Not Supplied Bp0291501 1 24th August 2001 24th August 2001 25th July 2010 Sewage Discharges - Pumping Station - Not Water Company Freshwater Stream/River Unnamed Trib Of Pembroke River Authorisation revokedRevoked Located by supplier to within 10m	A4NE (SE)	633	2	196300 202740
	Discharge Consent	S				
6	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Neyland P.S Natural Resources Wales Not Supplied Bp0111601 2 8th September 2010 8th September 2010 Not Supplied Sewage Discharges - Pumping Station - Water Company Freshwater Stream/River Milford Haven Varied under EPR 2010 Located by supplier to within 10m	A15NE (N)	792	2	195870 204810
	Discharge Consent					
6	-	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Neyland P.S Natural Resources Wales Not Given BP0111601 1 13th December 1991 13th December 1991 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A15NE (N)	792	2	195870 204810
	Discharge Consent	s				
6	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Wwtw Neyland Pembrokeshire, Neyland, Pembroke Natural Resources Wales HA 61 Stream 400 Bh0069602 5 1st January 2010 24th September 2009 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Saline Estuary Milford Haven Waterway Estu'L Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A15NE (N)	798	2	195832 204826



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Wwtw Neyland Pembrokeshire, Neyland, Pembroke Natural Resources Wales Not Supplied Bp0347501 1 31st December 2005 31st August 2005 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Saline Estuary Milford Haven Waterway New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A15NE (N)	798	2	195832 204826
6	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Wwtw Neyland Pembrokeshire, Neyland, Pembroke Natural Resources Wales HA 61 Stream 400 Bh0069602 4 31st December 2005 31st August 2005 31st August 2005 31st December 2009 Sewage Discharges - Final/Treated Effluent - Water Company Saline Estuary Milford Haven Waterway Estu'L Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A15NE (N)	798	2	195832 204826
7	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	,	A16NE (NE)	861	2	196350 204740
8	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Stw Natural Resources Wales HA 61 Stream 400 Bh0069602 2 8th March 2005 8th March 2005 30th August 2005 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River The Milford Haven Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A15NE (N)	887	2	195900 204900



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
8	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Stw Environment Agency, Welsh Region HA 61 Stream 400 Bh0069602 3 29th September 2005 8th March 2005 28th September 2005 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River The Milford Haven Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A15NE (N)	887	3	195900 204900
8		Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Neyland Stw Natural Resources Wales HA 61 Stream 400 BH0069602 1 21st November 1978 21st November 1978 7th March 2005 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied The Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A15NE (N)	887	2	195900 204900
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Mr M Howlett Sewerage Network - Pumping Station - Others Sycamore Woods Pumping Station, Sycamore Street, Bufferland, Pembroke Dock, Pembrokeshier, Sa72 6qw Natural Resources Wales Not Supplied Bp0353401 1 1st June 2006 1st June 2006 Not Supplied Sewage Discharges - Pumping Station - Not Water Company Freshwater Stream/River Tributary Of Jacob'S Pill New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A4SE (SE)	893	2	196518 202507
10	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Promenade Neyland Swo Natural Resources Wales Not Supplied Bp0208601 2 8th September 2010 8th September 2010 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven Varied under EPR 2010 Located by supplier to within 10m	A15NE (N)	955	2	195940 204960



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	\$				
10	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Promenade Neyland Swo Natural Resources Wales Not Given BP0208601 1 19th October 1989 19th October 1989 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A15NE (N)	955	2	195940 204960
11	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Description: Primary Activity: Activity Code:	Prevention And Control Celtic Biodiesel Limited Pembroke Biodiesel, The Cargo Shed, The Dockyard, Pembroke Dock, Dyfed, SA72 6TD Natural Resources Wales JP3335LD Jp3335ld 14th July 2006 Revoked Application New Manually positioned to the address or location 4.1 A(1) (A) (II) Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Y 0.0 Associated Process Associated Process N	A12SW (E)	0	2	196210 203779
	Nearest Surface Wa	ter Feature	A11SE	0	_	195775
			(N)	J	-	204011
12	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:		A11SE (NE)	0	3	195800 203900
13	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Water Company Sewage: Sewage Treatment Works Carrs Rock Outfall Environment Agency, Welsh Region Farm Effluent/Slurry Not Supplied 27th February 1995 22712 Not Given Not Given Effluent Discharge Category 3 - Minor Incident Located by supplier to within 100m	A8NE (E)	0	3	196300 203600
14	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Llanreath Beach Environment Agency, Welsh Region Heavy Fuel Oil Milford Haven Waterway; Leachate 26th November 1997 34158 Not Given Not Given Vandalism Category 3 - Minor Incident Located by supplier to within 100m	A7NW (SW)	31	3	195500 203600



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Pembroke Dock Ferry Terminal, PEMBROKE DOCK Environment Agency, Welsh Region Oils - Diesel (Including Agricultural) Milford Haven Waterway; Leakage 13th January 1998 35046 Not Given Not Given Not Given Mechanical/Electrical Plant Failure Category 3 - Minor Incident Located by supplier to within 100m	A12SW (NE)	52	3	196000 204000
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Pembroke Docks, LLANREATH Environment Agency, Welsh Region Crude Sewage Not Supplied 24th November 1996 30603 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A6SE (SW)	444	3	195205 203305
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given New South Pembrokeshire Golf Course Environment Agency, Welsh Region Heavy Fuel Oil Not Supplied 24th November 1996 30603 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A6SE (SW)	447	3	195205 203300
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Beach Directly Below Wtw, Llanrhyd Environment Agency, Welsh Region Heavy Fuel Oil Not Supplied 24th November 1996 30603 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A6SE (SW)	450	3	195205 203295
16	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given LLANREATH Environment Agency, Welsh Region Heavy Fuel Oil Not Supplied 24th November 1996 30603 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A6SE (SW)	454	3	195200 203295
17	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given At His House, Near Llanreath Beach Environment Agency, Welsh Region Algae Natural Occurrence 24th June 1997 32745 Not Given Not Given Not Given Natural Causes Category 3 - Minor Incident Located by supplier to within 100m	A6NE (SW)	477	3	195100 203400



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given At His House Near, Llanreath Beach Environment Agency, Welsh Region Algae Llanreath Beach; Natural Occurrence 24th June 1997 32745 Not Given Not Given Not Given Natural Causes Category 3 - Minor Incident Located by supplier to within 100m	A6NE (SW)	479	3	195100 203395
18	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Llanreath Beach Environment Agency, Welsh Region Light Oil Llanreath Beach 14th August 1997 33242 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A6SE (SW)	524	3	195200 203200
19	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Fields, Bottom Of Garden Environment Agency, Welsh Region Farm Land Run-Off Not Supplied 11th March 1995 22805 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	A4NE (SE)	673	3	196300 202700
20	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Surface Water Outfall Between Treowen Road And, Sykemoor Street Environment Agency, Welsh Region Algae Not Supplied 25th October 1994 21471 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A4NE (SE)	680	3	196400 202700
21	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given LLANREATH Environment Agency, Welsh Region Crude Sewage Natural Causes 15th August 1996 29816 Not Given Not Given Not Given Natural Causes Category 3 - Minor Incident Located by supplier to within 100m	A6SW (SW)	809	3	194900 203100
22	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given Neyland Yacht Club Environment Agency, Welsh Region Chlorinated Water Not Supplied 1st April 1996 27873 Not Given Not Given Leakage Category 3 - Minor Incident Located by supplier to within 100m	A16SE (NE)	833	3	196400 204695



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Neyland Yacht Club Environment Agency, Welsh Region Crude Sewage Not Supplied 1st April 1996 27873 Not Given Not Given Leakage Category 3 - Minor Incident Located by supplier to within 100m	A16SE (NE)	834	3	196405 204695
22	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Sewerage Neyland Yacht Club Environment Agency, Welsh Region Chlorinated Water Not Supplied 1st April 1996 27873 Not Given Not Given Leakage Category 3 - Minor Incident Located by supplier to within 100m	A16SE (NE)	837	3	196400 204700
23	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Sewerage Neyland Yacht Club Environment Agency, Welsh Region Crude Sewage Not Supplied 3rd May 1996 28221 Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	A16SE (NE)	894	3	196600 204700
24	Substantiated Pollu Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact:	tion Incident Register Natural Resources Wales 12th October 2015	A7NE (S)	0	2	195710 203570
25	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact:	tion Incident Register Natural Resources Wales 16th July 2002 91886 Category 4 - No Impact Category 2 - Significant Incident Category 2 - Significant Incident Located by supplier to within 10m Asbestos Waste	A6SE (SW)	418	2	195209 203339
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mrs J V Llewellyn 22/61/5/0094 100 Unnamed Stream For Use On Woodbine Farm Natural Resources Wales General Agriculture: Spray Irrigation - Direct Water may be abstracted from a single point Surface Not Supplied Not Supplied Unnamed Stream For Use On Woodbine Farm 01 May 31 July 24th July 2015 Not Supplied Located by supplier to within 100m	(N)	1471	2	195620 205520
	Groundwater Vulne Soil Classification: Map Sheet: Scale:		A11SE (NW)	0	3	195623 203756



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	workings and urban are	Potential (U) - Soil information for restored mineral eas is based on fewer observations than elsewhere. A classification (H) assumed, until proved otherwise	A11SE (NW)	0	3	195687 203729
	Drift Deposits None					
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer		A11SE (NW)	0	1	195687 203729
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Ur	ndifferentiated	A7NW	0	1	195559
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Ur	ndifferentiated	(W) A11SE (N)	0	1	203710 195758 203959
	Extreme Flooding from Rivers or Sea with Type: Extent of Extreme Floo Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	out Defences ding from Rivers or Sea without Defences	A7NW (W)	0	2	195572 203709
	Extreme Flooding from Rivers or Sea with	out Defences ding from Rivers or Sea without Defences	A11SE (NE)	0	2	195811 203847
	Flooding from Rivers or Sea without Defer	n ces n Rivers or Sea without Defences	A7NW (W)	0	2	195571 203708
	Flooding from Rivers or Sea without Defer	nces n Rivers or Sea without Defences	A11SE (NE)	0	2	195811 203848
	Areas Benefiting from Flood Defences None					
	Flood Water Storage Areas None					
	Flood Defences None					
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South an	nd South Pembrok	A7SW (SW)	414	4	195431 203196
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South ar Primacy: 1	nd South Pembrok	A7SW (SW)	421	4	195289 203261
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South ar Primacy: 1	nd South Pembrok	A7SW (SW)	421	4	195289 203261



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (SW)	421	4	195449 203192
	OS Water Network Lines				
30	Watercourse Form: Inland river Watercourse Length: 64.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	422	4	195282 203266
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	422	4	195282 203266
32	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (SW)	423	4	195454 203188
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (SW)	425	4	195443 203190
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	440	4	195276 203248
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	440	4	195276 203248
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	442	4	195276 203245
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 2	A6SE (SW)	442	4	195276 203245



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 29.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6NE (SW)	445	4	195151 203374
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	445	4	195221 203287
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	448	4	195283 203234
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A6SE (SW)	452	4	195162 203344
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (S)	469	4	195520 203120
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (S)	505	4	195558 203071
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (S)	526	4	195581 203042
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A7SW (S)	529	4	195574 203041
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NW (SE)	602	4	196126 202795



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NW (SE)	608	4	196222 202771
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A3NE (S)	615	4	195646 202929
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A3NE (S)	615	4	195646 202929
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NE (SE)	623	4	196337 202751
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NE (SE)	640	4	196313 202734
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 261.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NE (SE)	656	4	196333 202718
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4NE (SE)	712	4	196564 202711
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4SE (SE)	763	4	196562 202656
55	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 325.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A15NE (N)	844	4	195920 204849



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4SE (SE)	852	4	196486 202541
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A4SE (SE)	861	4	196509 202538
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A3SE (S)	959	4	195688 202557
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford Haven South and South Pembrok Primacy: 1	A3SE (S)	994	4	195685 202522

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Historical Landfill S	lites				
60	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	EAHLD14377 31st December 1960 31st December 1969 Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste 0 Not Supplied 6845/0080 Not Supplied Not Supplied	A4SE (SE)	777	2	196493 202620
		nagement Facilities (Locations)			_	
61		PB3490HV Unit 41, The Dockyard, Pembroke Dock, Pembrokeshire, Pembrokeshire, SA72 6TD Sundorne Products (Ilanidloes) Ltd Not Supplied Natural Resources Wales Not Supplied Effective 12th February 2016 Not Supplied	A7NE (SE)	0	2	195739 203688
		nagement Facilities (Locations)		_	_	
61	-	900102 Pembroke Dock, The Dockyard, Pembroke Dock, Pembrokeshire, SA72 6TD Sundorne Products (Ilanidloes) Ltd Not Supplied Natural Resources Wales Household, Commercial And Industrial Transfer Stations Modified 16th January 2015 10th August 2015 Not Supplied Located by supplier to within 10m	A7NE (SE)	0	2	195739 203688
	Licensed Waste Ma	nagement Facilities (Locations)				
62	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference: Positional Accuracy:	100411 Dockyard Motors, The Old Dockyard, Pembroke Dock, SA72 6TE Gaze James Richard Not Supplied Natural Resources Wales Metal Recycling Sites (Mixed) Issued 21st November 2008 Not Supplied Located by supplier to within 10m	A11SE (NE)	0	2	195788 203817

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference:	nagement Facilities (Locations) 34263 Celtic Buildings, The Old Royal Dock, Edgar Morgan Way, Pembroke Dock, Pembrokeshire, SA72 6TE David Sean Waters & Bernard Finnegan Not Supplied Natural Resources Wales End of Life Vehicles Revoked 25th July 2005 Not Supplied Not Supplied Not Supplied Not Supplied 17th March 2011 Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 10m	A7NE (E)	0	2	195844 203675
	Local Authority Lan Name:	dfill Coverage Pembrokeshire County Council - Has supplied landfill data		0	5	195687 203729
64	Location: Reference: Authority: Last Reported Status: Types of Waste: Date of Closure: Positional Accuracy:	Sorded Landfill Sites Sykemoor, Pembroke Dock Not Supplied Pembrokeshire County Council, Environmental Health Department Closed Not Supplied Not Supplied Located by supplier to within 10m	A4SE (SE)	964	5	196580 202450
65	Boundary Quality: Potentially Infilled L Use: Date of Mapping:	Not Applicable Land (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1869	A11SW (W)	0	-	195617 203747
66	Potentially Infilled L Use: Date of Mapping:	Land (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	A8SE (SE)	88	-	196350 203299
67	Potentially Infilled L Use: Date of Mapping:		A12SE (E)	225	-	196600 203751
68	Registered Landfill Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Govan Davis Developments Ltd WDL/3/85 Dry Dock & Part Of West Llanion Pill, Pembroke Dock, Pembrokeshire 196650 203730 Sunderland House, The Dockyard, Pembroke Dock, Pembrokeshire Environment Agency Wales, South West Area Landfill Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) No known restriction on source of waste Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st October 1986 Not Given Not Given Manually positioned to the road within the address or location	A12SE (E)	178	3	196550 203730

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Hazardous Substances

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Explosive Sites					
69	Name: Location: Status: Positional Accuracy:	Pembroke Port/Milford Haven Port Authority Royal Dockyard, Pembroke Dock, Pembroke, Pembrokeshire Active Manually positioned to the address or location	A12SW (E)	0	6	196066 203877

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid	d Geology				
	Description:	Dinantian Rocks (Undifferentiated)	A11SE (NW)	0	1	195687 203729
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	A11SE (NW)	0	1	195687 203729
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment no data <1.8 mg/kg no data	A11SW (NW)	9	1	195485 203968
70	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Peral Sites Pembroke Dock Old Dock Yardcommercial Row, Pembroke Dock, Dyfed, Sa72 6ju British Geological Survey, National Geoscience Information Service 10797 Wharf Active Not Supplied Not Supplied Quaternary Marine Deposits Marine Sand And Gravel Located by supplier to within 100m	A11SE (NE)	0	1	195800 203900
	BGS Measured Urba No data available BGS Urban Soil Che	•				
	No data available Coal Mining Affecte In an area that might	d Areas not be affected by coal mining				
	Non Coal Mining Ar Risk: Source:	eas of Great Britain Highly Unlikely British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Potential for Collaps Hazard Potential: Source:	sible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A7NW (W)	0	1	195559 203710
	Potential for Collaps Hazard Potential: Source:	sible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	195758 203959
	Potential for Collaps Hazard Potential: Source:	sible Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Potential for Compr Hazard Potential: Source:	essible Ground Stability Hazards Moderate British Geological Survey, National Geoscience Information Service	A7NW (W)	0	1	195559 203710
	Potential for Compr Hazard Potential: Source:	essible Ground Stability Hazards Moderate British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	195758 203959
	Potential for Compr Hazard Potential: Source:	essible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729

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Geological

lap ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NE (S)	0	1	195636 203566
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A12SW (E)	27	1	196185 203918
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A7NW (SW)	46	1	195543 203554
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	High British Geological Survey, National Geoscience Information Service	A7NE (S)	82	1	195655 203477
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NE (S)	129	1	195688 203413
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	A7NW (SW)	91	1	195535 203501
	Potential for Runnii	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Potential for Runnii	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A7NW (W)	0	1	195559 203710
	Potential for Runnii	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	195758 203959
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A7NW (W)	0	1	195559 203710
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	195758 203959
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	195687 203729
	Radon Potential - R	adon Affected Areas				
	Affected Area:	The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).	A11SE (NW)	0	1	195687 203729
	Source:	British Geological Survey, National Geoscience Information Service				
		adon Protection Measures Full radon protective measures are necessary in the construction of new dwellings or extensions	A11SE	0	1	195687 203729
	Source:	British Geological Survey, National Geoscience Information Service	(NW)			20372

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Map ID	I Jetalis		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Paradise Road Resto Building 28 (Workshop), Pembroke Dock, SA72 6TB Classic Car Specialists Inactive Manually positioned within the geographical locality	A7NW (SW)	0	-	195606 203590
71	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Power Master Systems Stable 5,The Dockyard, Pembroke Dock, Dyfed, SA72 6TB Electrical Goods Sales, Manufacturers & Wholesalers Inactive Manually positioned within the geographical locality	A7NW (SW)	0	-	195618 203610
72	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Merseyside Ship Stores Building 16 North The Dockyard, Pembroke Dock, Dyfed, SA72 6TD Chandlers Active Manually positioned within the geographical locality	A12SW (E)	0	-	196034 203820
72	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Pembroke Port The Dockyard, Pembroke Dock, Dyfed, SA72 6TD Ports, Docks & Harbours Active Automatically positioned to the address	A12SW (E)	0	-	196034 203820
72	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Carna The Dockyard, Pembroke Dock, Dyfed, SA72 6TD Cabinet Makers Inactive Automatically positioned to the address	A12SW (E)	0	-	196034 203820
72	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Jay Davidson Haulage The Dockyard, Pembroke Dock, Dyfed, SA72 6TD Road Haulage Services Inactive Manually positioned within the geographical locality	A12SW (E)	0	-	196066 203844
73	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Cape Engineering Services Pillar Building, The Dockyard, Pembroke Dock, SA72 6TD Mechanical Engineers Active Automatically positioned to the address	A8NW (E)	0	-	196044 203657
74	Contemporary Trad Name: Location: Classification: Status:		A8NW (E)	0	-	196263 203549
74	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Grainger Tubolt Units A-b, Meyrick Owen Way, Pembroke Dock, SA72 6WS Engineering Services Inactive Automatically positioned to the address	A8NW (E)	0	-	196263 203549
75	Contemporary Trad Name: Location: Classification: Status:	, , , , , , , , , , , , , , , , , , ,	A11SE (E)	0	-	195811 203719
76	Contemporary Trad Name: Location: Classification: Status:	**	A11SE (NE)	0	-	195786 203837
76	Contemporary Trad Name: Location: Classification: Status:		A11SE (NE)	0	-	195786 203837

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	Contemporary Trad	le Directory Entries Mainstay Marine Solutions	A11SE	0	-	195900
	Location: Classification: Status: Positional Accuracy:	The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Ship Builders, Repairs & Fittings Active Automatically positioned to the address	(NE)			203890
	Contemporary Trad	le Directory Entries				
77	Name: Location: Classification: Status: Positional Accuracy:	Mustang Marine The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Ship Builders, Repairs & Fittings Inactive Automatically positioned to the address	A11SE (NE)	0	-	195900 203890
	Contemporary Trad	le Directory Entries				
77	Name: Location: Classification: Status: Positional Accuracy:	G Autos The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Garage Services Inactive Manually positioned within the geographical locality	A11SE (NE)	0	-	195924 203912
	Contemporary Trad	le Directory Entries				
77	Name: Location: Classification: Status: Positional Accuracy:	Jensen Metals The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Scrap Metal Merchants Active Manually positioned within the geographical locality	A11SE (NE)	0	-	195862 203874
	Contemporary Trad	le Directory Entries				
78	Name: Location: Classification: Status: Positional Accuracy:	Port Pallets (Pembroke) Ltd The Dockyard, Pembroke Dock, Dyfed, SA72 6TA Pallets, Crates & Packing Cases Inactive Automatically positioned to the address	A11SE (NE)	0	-	195727 203791
	Contemporary Trad	**				
78	Name: Location: Classification: Status: Positional Accuracy:	Robco Engineering The Dockyard, Pembroke Dock, SA72 6TD Engineering Machine Services Active Automatically positioned to the address	A11SE (NE)	0	-	195731 203802
	Contemporary Trad	le Directory Entries				
79	Name: Location: Classification: Status: Positional Accuracy:	Movin-On (Uk) Ltd Custom House, The Dockyard, Pembroke Dock, Dyfed, SA72 6TW Road Haulage Services Inactive Automatically positioned to the address	A12SW (E)	0	-	196024 203741
	Contemporary Trad	le Directory Entries				
79	Name: Location: Classification: Status: Positional Accuracy:	Dockyard Motors The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Car Breakers & Dismantlers Inactive Manually positioned within the geographical locality	A12SW (E)	0	-	195991 203733
	Contemporary Trad					
80	Name: Location: Classification: Status: Positional Accuracy:	Mikado Edgar Morgan Way,1 The Dockyard, Pembroke Dock, Dyfed, SA72 6TE Car Dealers - Used Inactive Manually positioned to the road within the address or location	A7NE (SE)	0	-	195844 203662
	Contemporary Trad					
81	Name: Location: Classification: Status: Positional Accuracy:	Celtic Biodiesel Ltd The Royal Dockyard, Pembroke Dock, Dyfed, SA72 6TD Oil Fuel Distributors Inactive Manually positioned within the geographical locality	A8NW (SE)	0	-	196172 203468
	Contemporary Trad					
82	Name: Location: Classification: Status:	Tarmac United Marine Aggregates, Commercial Row Pembroke Road, Pembroke Dock, Dyfed, SA72 6JU Sand, Gravel & Other Aggregates Active	A8NE (E)	44	-	196396 203644
	Positional Accuracy:	Manually positioned within the geographical locality				

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries South Wales Sand & Gravel Commercial Row, Pembroke Dock, Dyfed, SA72 6JU Sand, Gravel & Other Aggregates Inactive Automatically positioned to the address	A8NE (E)	44	-	196396 203644
83	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries G P Motor Sales Albion Sq, Pembroke Dock, Dyfed, SA72 6XF Tyre Dealers Inactive Manually positioned to the road within the address or location	A8NE (SE)	131	-	196442 203410
84	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Universal Engineering Motor Services Park Street, Pembroke Dock, Dyfed, SA72 6JG Garage Services Inactive Automatically positioned to the address	A8NE (E)	249	-	196560 203402
85	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Pembrokeshire Remapping 11 Park Lane, Pembroke Dock, Dyfed, SA72 6JQ Car Engine Tuning & Diagnostic Services Active Manually positioned to the road within the address or location	A8NE (E)	301	-	196614 203404
86	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Pennar Filling Station Treowen Road, Pembroke Dock, Dyfed, SA72 6NY Petrol Filling Stations Inactive Automatically positioned to the address	A4NE (SE)	537	-	196340 202838
86	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Rudd Joinery Treowen Road, Pembroke Dock, Dyfed, SA72 6NY Joinery Manufacturers Active Automatically positioned to the address	A4NE (SE)	537	-	196340 202838
87	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Pembrokeshire Gas Maintenance 3, Links Drive, Pennar, Pembroke Dock, SA72 6SZ Boilers - Servicing, Replacements & Repairs Active Automatically positioned to the address	A3NE (S)	766	-	195723 202748
88	Contemporary Trad Name: Location: Classification: Status:		A4SE (SE)	991	-	196323 202383
89	Fuel Station Entries Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Pennar Filling Station Treowen Road, Pennar, PEMBROKE DOCK, Dyfed, SA72 6NY Shell Not Applicable Obsolete Automatically positioned to the address	A4NE (SE)	537	-	196340 202838
90	Name: Location: Category: Class Code:	Commercial Services Croft Motors 7 Bush Street, Pembroke Dock, SA72 6XB Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	A8NE (E)	201	7	196510 203390
91	Name: Location: Category: Class Code:	Education and Health Haven Way Fort Road, Pembroke Dock, SA72 6SY Health Practitioners and Establishments Hospitals Positioned to address or location	A7NE (S)	30	7	195752 203509
91	Name: Location: Category: Class Code:	Education and Health South Pembroke Hospital Fort Road, Pembroke Dock, SA72 6SY Health Practitioners and Establishments Hospitals Positioned to address or location	A7NE (S)	30	7	195752 203509

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Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Points of Interest - Education and Health Name: South Pembrokeshire Hospital Location: Fort Road, Pembroke Dock, SA72 65 Category: Health Practitioners and Establishme Class Code: Hospitals Positional Accuracy: Positioned to address or location		A7NE (S)	30	7	195752 203509
91	Points of Interest - Education and Health Name: Health & Social Care Resource Cent Location: 139 Fort Road, Pembroke Dock, SA7 Category: Health Practitioners and Establishme Class Code: Hospitals Positional Accuracy: Positioned to address or location	'2 6SX	A7NE (S)	37	7	195778 203494
92	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location		A12SW (E)	0	7	196111 203743
92	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location		A12SW (E)	0	7	196174 203734
92	Points of Interest - Manufacturing and Production Name: Tanks Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A12SW (E)	0	7	196115 203753
92	Points of Interest - Manufacturing and Production Name: Tanks Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A12SW (E)	0	7	196174 203734
93	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or	location	A8NW (SE)	0	7	196258 203406
93	Points of Interest - Manufacturing and Production Name: Works Location: SA72 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or	location	A8NW (SE)	0	7	196258 203407
94	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A11SW (W)	0	7	195586 203754
94	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A11SW (NW)	0	7	195618 203815
94	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A11SW (NW)	0	7	195593 203780
95	Points of Interest - Manufacturing and Production Name: Tank Location: SA72 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or	location	A11SE (NW)	0	7	195622 203837

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Name: Location: Category: Class Code:	Manufacturing and Production Tank SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	A11SE (NW)	0	7	195629 203857
96	Name: Location: Category: Class Code:	Manufacturing and Production Tank SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	A11SE (NE)	0	7	195879 203944
97	Name: Location: Category: Class Code:	Manufacturing and Production Tank SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	A12SE (E)	0	7	196296 203757
98	Name: Location: Category: Class Code:	Manufacturing and Production Tank SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	A3NE (S)	670	7	195832 202816
99	Name: Location: Category: Class Code:	Public Infrastructure Sewage Works SA72 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to address or location	A11SW (NW)	0	7	195596 203821
100	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	A8NE (E)	82	7	196431 203623
100	Name: Location: Category: Class Code:	Recreational and Environmental Playground Clarence Street, SA72 Recreational Playgrounds Positioned to an adjacent address or location	A8NE (E)	82	7	196431 203623
101	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	A4NW (S)	633	7	196020 202798
101	Name: Location: Category: Class Code:	Recreational and Environmental Playground Owen Street, SA72 Recreational Playgrounds Positioned to an adjacent address or location	A4NW (S)	633	7	196020 202798
102	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	A4SW (SE)	821	7	196275 202553
102	Name: Location: Category: Class Code:	Recreational and Environmental Playground Ferry Road, SA72 Recreational Playgrounds Positioned to an adjacent address or location	A4SW (SE)	821	7	196283 202553

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Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Environmentally Se	ensitive Areas				
103	Name: Multiple Areas: Total Area (m2): Source:	Preseli (decommissioned) Y 1187932672 The National Assembly for Wales, GI Services (Department of Planning & Countryside)	A15NW (N)	895	8	195358 204930
	Sites of Special Sci	ites of Special Scientific Interest				
104	Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Milford Haven Waterway Y 21920694.53 Natural Resources Wales 28232wp3 Mixed Biological And Geological 4th March 1993 Notified	A7NW (W)	0	2	195573 203705
	Special Areas of Co	onservation				
105	Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Pembrokeshire Marine / Sir Benfro Forol Y 1380663657.58 Natural Resources Wales Uk0013116 Designated	A7NW (W)	0	2	195573 203705

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Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Pembrokeshire County Council - Public Protection Division	December 2015	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	August 2017	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	December 2015	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	December 2015	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Registered Radioactive Substances		
Natural Resources Wales	January 2015	As notified
Environment Agency - Welsh Region	January 2015	
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Nater Abstractions		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Nater Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Groundwater Vulnerability		-
Environment Agency - Head Office	April 2015	Not Applicable
Bedrock Aquifer Designations	,	1,
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		,
British Geological Survey - National Geoscience Information Service	August 2015	As notified
	7.tagast 2010	7.6 Hotillod
Source Protection Zones Natural Resources Wales	November 2016	As notified
	November 2016	AS HOURED
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	November 2017	Quarterly

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Agency & Hydrological	Version	Update Cycle	
Flooding from Rivers or Sea without Defences			
Natural Resources Wales	November 2017	Quarterly	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2017	Quarterly	
Flood Water Storage Areas			
Natural Resources Wales	November 2017	Quarterly	
Flood Defences			
Natural Resources Wales	November 2017	Quarterly	
OS Water Network Lines			
Ordnance Survey	October 2017	6 Weekly	
Surface Water 1 in 30 year Flood Extent			
Natural Resources Wales	October 2013	As notified	
Surface Water 1 in 100 year Flood Extent			
Natural Resources Wales	October 2013	As notified	
Surface Water 1 in 1000 year Flood Extent			
Natural Resources Wales	October 2013	As notified	
Surface Water Suitability			
Natural Resources Wales	October 2013	As notified	
BGS Groundwater Flooding Susceptibility			
British Geological Survey - National Geoscience Information Service	May 2013	Annually	
Waste	Version	Update Cycle	
BGS Recorded Landfill Sites			
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable	
Historical Landfill Sites			
Natural Resources Wales	July 2017	Quarterly	
Integrated Pollution Control Registered Waste Sites			
Environment Agency - Welsh Region	October 2008	Not Applicable	
Licensed Waste Management Facilities (Landfill Boundaries)			
Environment Agency Wales - South West Area	October 2017	Quarterly	
Natural Resources Wales	October 2017	Quarterly	
Licensed Waste Management Facilities (Locations)			
Environment Agency Wales - South West Area Natural Resources Wales	October 2017	Quarterly	
	October 2017	Quarterly	
Local Authority Landfill Coverage	May 2000	Not Applicable	
Pembrokeshire County Council - Environmental Health Department	Way 2000	Not Applicable	
Local Authority Recorded Landfill Sites	May 2000	Not Applicable	
Pembrokeshire County Council - Environmental Health Department	May 2000	Not Applicable	
Potentially Infilled Land (Non-Water)	Docombos 1000	Not Applicable	
Landmark Information Group Limited	December 1999	Not Applicable	
Potentially Infilled Land (Water)	Docombor 4000	Not Applicable	
Landmark Information Group Limited	December 1999	Not Applicable	
Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable	
	Water 2000	140t Applicable	
Registered Waste Transfer Sites Environment Agency Wales - South West Area	March 2003	Not Applicable	
	IVIAIUII 2003	140t Applicable	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	March 2002	Not Applicable	
Environment Agency wates - South west Area	March 2003	Not Applicable	

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Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)	2	5
Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Ri Annually
Health and Safety Executive	IVIAICH 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements	11010111301 2000	1 tot / tppiloabio
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Annual Rolling Update
Pembrokeshire County Council - Planning Department	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Annual Rolling Update
Pembrokeshire County Council - Planning Department	October 2015	Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	As notified
Mining Instability	0 - (-)	Niet Assalisabile
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards	May 2010	140t Applicable
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards		,
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards	luna 2045	Annually
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

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Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	November 2017	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines		
National Grid	July 2014	Quarterly
Points of Interest - Commercial Services		
PointX	December 2017	Quarterly
Points of Interest - Education and Health		
PointX	December 2017	Quarterly
Points of Interest - Manufacturing and Production		
PointX	December 2017	Quarterly
Points of Interest - Public Infrastructure		
PointX	December 2017	Quarterly
Points of Interest - Recreational and Environmental		
PointX	December 2017	Quarterly
Underground Electrical Cables		
National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	October 2017	Bi-Annually
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2017	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2017	Bi-Annually
Marine Nature Reserves		,
Natural Resources Wales	August 2017	Bi-Annually
National Nature Reserves	11090012011	
Natural Resources Wales	August 2017	Bi-Annually
National Parks	7 tagast 2017	Di 7 timaany
Natural Resources Wales	August 2017	Annually
Nitrate Vulnerable Zones	7 tagast 2011	7 a maany
Natural Resources Wales	July 2017	Bi-Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Di Ailidally
Ramsar Sites	5.020. 2000	
Natural Resources Wales	August 2017	Bi-Annually
	7.09001.2017	21 / tillidally
Sites of Special Scientific Interest Natural Resources Wales	August 2017	Ri-Annually
	August 2017	Bi-Annually
Special Areas of Conservation	August 0047	D: A
Natural Resources Wales	August 2017	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2017	Bi-Annually

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Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEP Septish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE 迎念新
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	peterbrett

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Useful Contacts

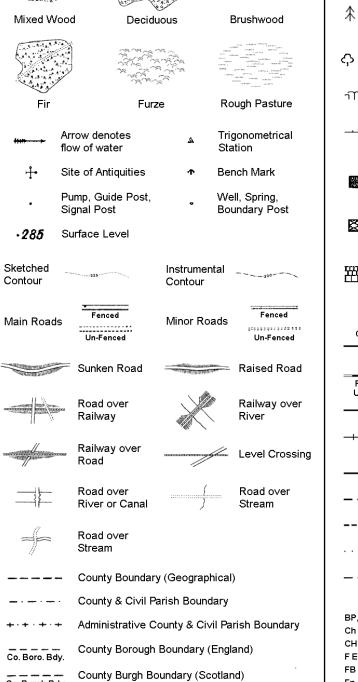
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Pembrokeshire County Council - Environmental Health Department Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	The National Assembly for Wales - GI Services (Department of Planning & Countryside) Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 36 of 36

Historical Mapping Legends

Ordnance Survey County Series 1:10,560 Other Gravel Orchard Osiers Mixed Wood Deciduous Brushwood Furze Rough Pasture Arrow denotes Trigonometrical flow of water Station Bench Mark Site of Antiquities Pump, Guide Post, Well, Spring, Signal Post **Boundary Post**



Co. Burgh Bdy.

RD. Bdy.

Rural District Boundary

····· Civil Parish Boundary

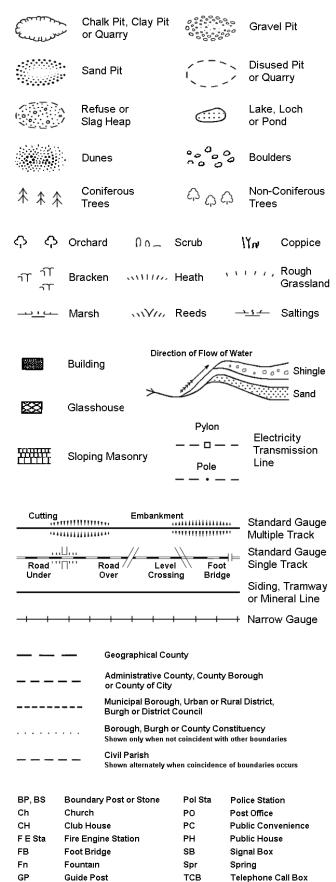
MP

Mile Post

TCP

Telephone Call Post

Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping

	Gra∨el Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders	2 0	Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
***************************************	Slopes		Top of cliff
	General detail		Underground detail
	- Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)	• • • • •	Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
۵ ^۵	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
Ω Ω	Non-coniferous trees (scattered)	**	Coniferous trees
* *	Coniferous trees (scattered)	Ö	Positioned tree
4 4 4 4	Orchard	* *	Coppice or Osiers
wiTr,	Rough Grassland	www.	Heath
On_	Scrub	7 <u>√</u> /۲	Marsh, Salt Marsh or Reed
6	Water feature	← ←	Flow arrows
MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs)
	Telephone line (where shown)		Electricity transmission lin (with poles)
← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare star or lighting towe
+	Site of (antiquity)		Glasshouse
	General Building		Important Building

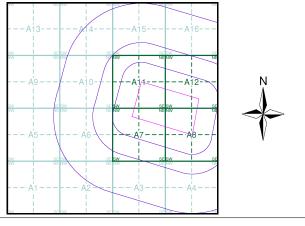
Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1869	3
Pembrokeshire	1:10,560	1909	4
Milford Haven	1:5,000	1950	5
Pembroke	1:10,000	1950	6
Pembrokeshire	1:10,560	1953	7
Ordnance Survey Plan	1:10,000	1964	8
Ordnance Survey Plan	1:10,000	1966 - 1968	9
Ordnance Survey Plan	1:10,000	1970 - 1976	10
Ordnance Survey Plan	1:10,000	1977	11
Ordnance Survey Plan	1:10,000	1985	12
Ordnance Survey Plan	1:10,000	1992 - 1994	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2017	16

Historical Map - Slice A



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730
Slice: A

Site Area (Ha): 36.27 Search Buffer (m): 1000

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD $\,$



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Russian Military Mapping Legends

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



Citrus Orchard

the diameter of trees

3 3 (Z)

Ии(I)

Йй(Y)

K K (K)

Лл(L)

M m (m)

H H (N) O o (o)

Values for prominent elevations

Numbers for spot elevations, depth soundings,

Russian Alphabet (For reference and phonetic interpretation of map text)

Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of

fords and condition of the river bottom; height of forest and

Пп(Р)

P p (R)

C c (s)

T T (T)

y y (u)

Фф(F)

Цц(тѕ)

Хх (кн) Ээ (е)

243,8

186.0

0,2

A a (A)

Бб (в)

B B (V)

Γr (G)

Дд(D)

E e (E)

Ë ë (YO)

Ж ж (ZH)

Wet Ground

Scattered

Vegetation

Чч (СН)

ъ (–)

ы (Y)

Шш (SH)

Щ щ (SHCH)

Юю (YU or IU) A (YA or IA)

1:25,000 mapping

	a. Not drawn	to scale b. Drawn to sc	ale	
		Government and Administrative Buildings		ilitary and dustrial Buildings
		Military and Communication Areas	M Si	ubway Entrance
		Partly Demolished Buildings	3883 De	emolished Buildings
		Built-Up Area with Fireproof Buildings Predominant	//////////////////////////////////////	uilt-Up Area with on-Fireproof Buildings edominant
		Individual Fireproof Building	and the same of th	ominent Industrial uilding
		Individual Dwelling, Fireproof		uins ofan Individual welling
	₽ ®	ь [®] бум.	□ скип.	♀ медн.
	Factory or Mill Chimne	Factory or Mill	Factory or Mi without Chimr	ll Mine or
	🗴 кам. у	z. ×	all co.	4 . Δ
	Operating Shaft or Mi		Salt Mine	Tailings Pile
	<i>⊘0</i> − <i>i</i> .:	ra. nec. kam.	₹	•
	Pit	Stone Quarry	Gas Pump o Service Statio	
	8	\times	×	= 6.mp.
	Oil or Natur Gas Derric		Power Station	n Transformer Station
	•	\$ ∅ +8.1	₫ 95.7	△ 92.6
	Cemetery	Burial Mound (height in metres)	Triangulation Po on Burial Mou	
	□ 52. /	⊗ 7/./	×	I
	Bench Mar	k Bench Mark (monumented)	Telegraph Office	Telephone Station
-	4	8	†	\$
	Radio Statio	on Radio Tower	Airfield or Seaplane Bas	Landing Strip se
	Cut F	ill Km Post Plantings		Width of Road
	_	graph/Telephone Lines	Highway under Construction	Steep Grade Improved Dirt Road (former truck road)
		Pipe m. (Culvert) Tunne	l Dism:	antled Railroad
		e-track Railroad with rst Class Station		Jnder Construction
	Control of the Contro	+24	Direction and	Water Gauge
	Shore Embankm	River or Ditch wit ent Embankment	of aurra	nt /35.1 Water Level Mark

вдхр.

Well

Heavy (Index)

Contour Line

Water Reservoir or

Rain Water Pit

Contour Line

and Value

Deciduous

Isobath with value

o 347.1

Spot Elevation

Value

Spring

Half Contour

Line

Key to Numbers on Mapping

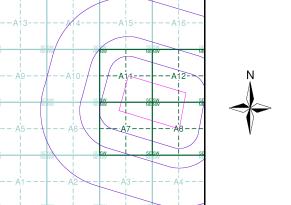
SM90SE Pembroke

N	0.	Description
1		Military Battery
3		Hydro Airfield/Airport
4		Hospital
6		Dockyard
9		Factory (Gas)
10)	Factory (Lime)
11	1	Sawmill
14	4	Radio Mast
15	5	Radio Station
16	3	Storage (Fuel)
18	3	Fort
19	9	Church

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1869	3
Pembrokeshire	1:10,560	1909	4
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Ordnance Survey Plan	1:10,000	1992 - 1994	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2017	16

Russian Map - Slice A



Customer Ref: JER1262

Slice:

36.27 1000

Milford Haven Port Authority, Captain Superintendents Building,



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 2 of 16

Order Details

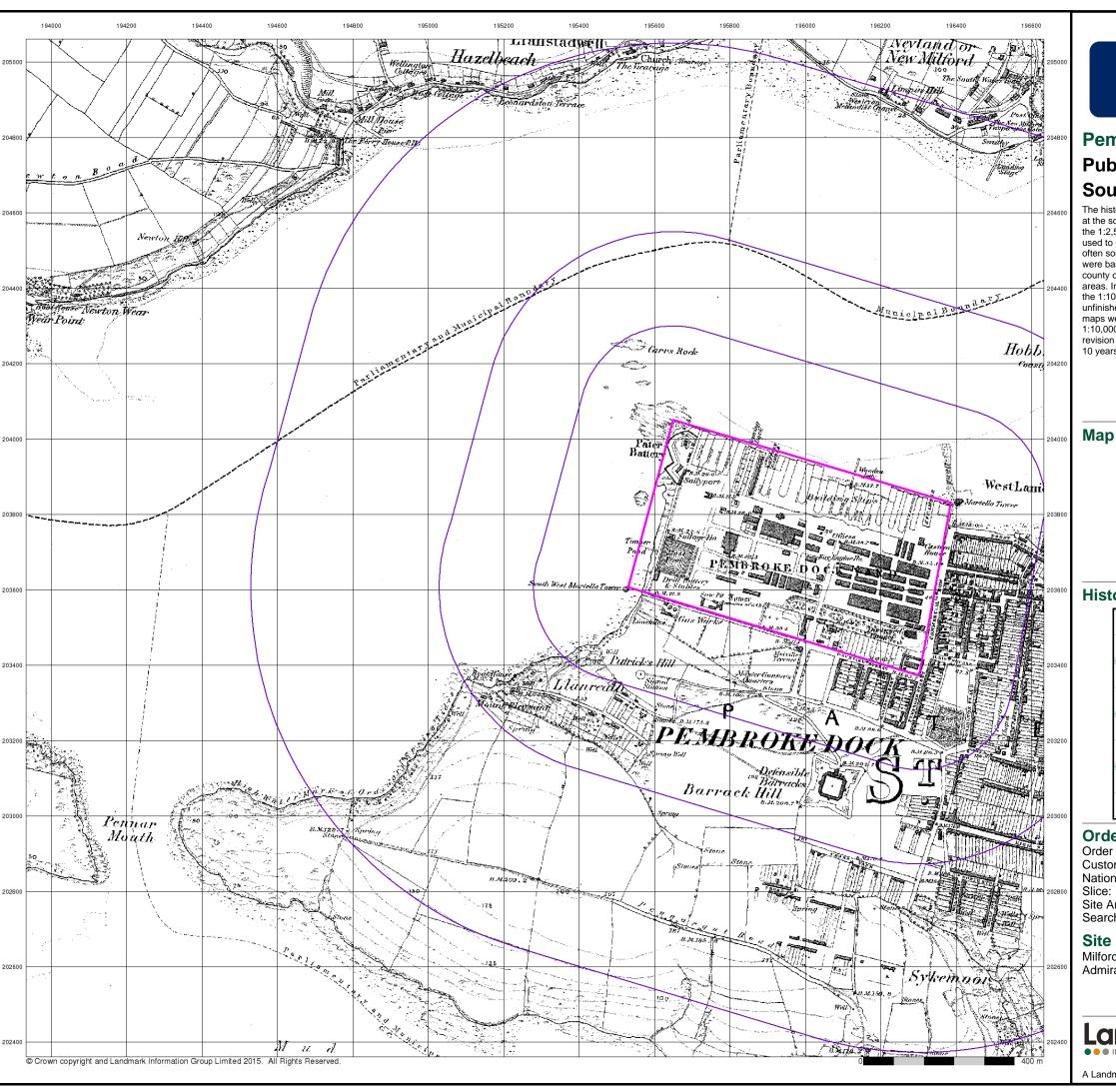
Order Number: 152819812_1_1 National Grid Reference: 195690, 203730

Site Area (Ha):

Search Buffer (m):

Site Details

Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD





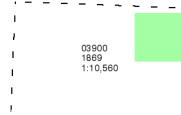
Pembrokeshire

Published 1869

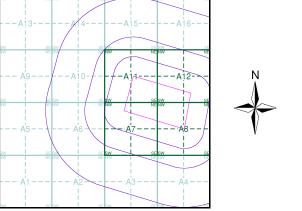
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

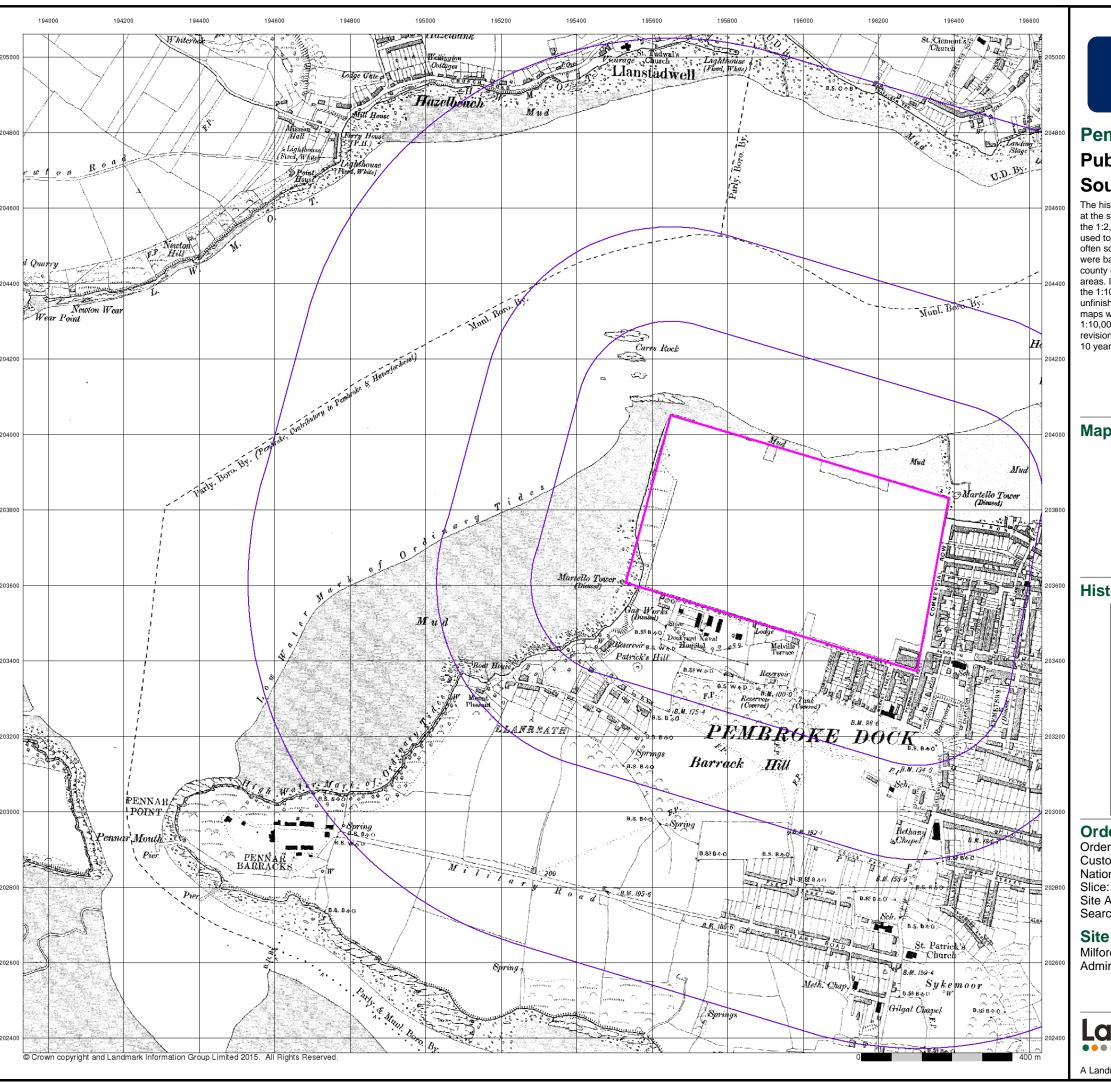
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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Pembrokeshire

Published 1909

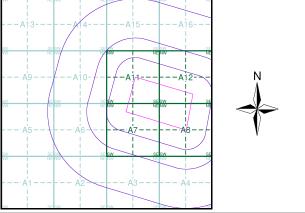
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

 Order Number:
 152819812_1_1

 Customer Ref:
 JER1262

 National Grid Reference:
 195690, 203730

Site Area (Ha): 36.27 Search Buffer (m): 1000

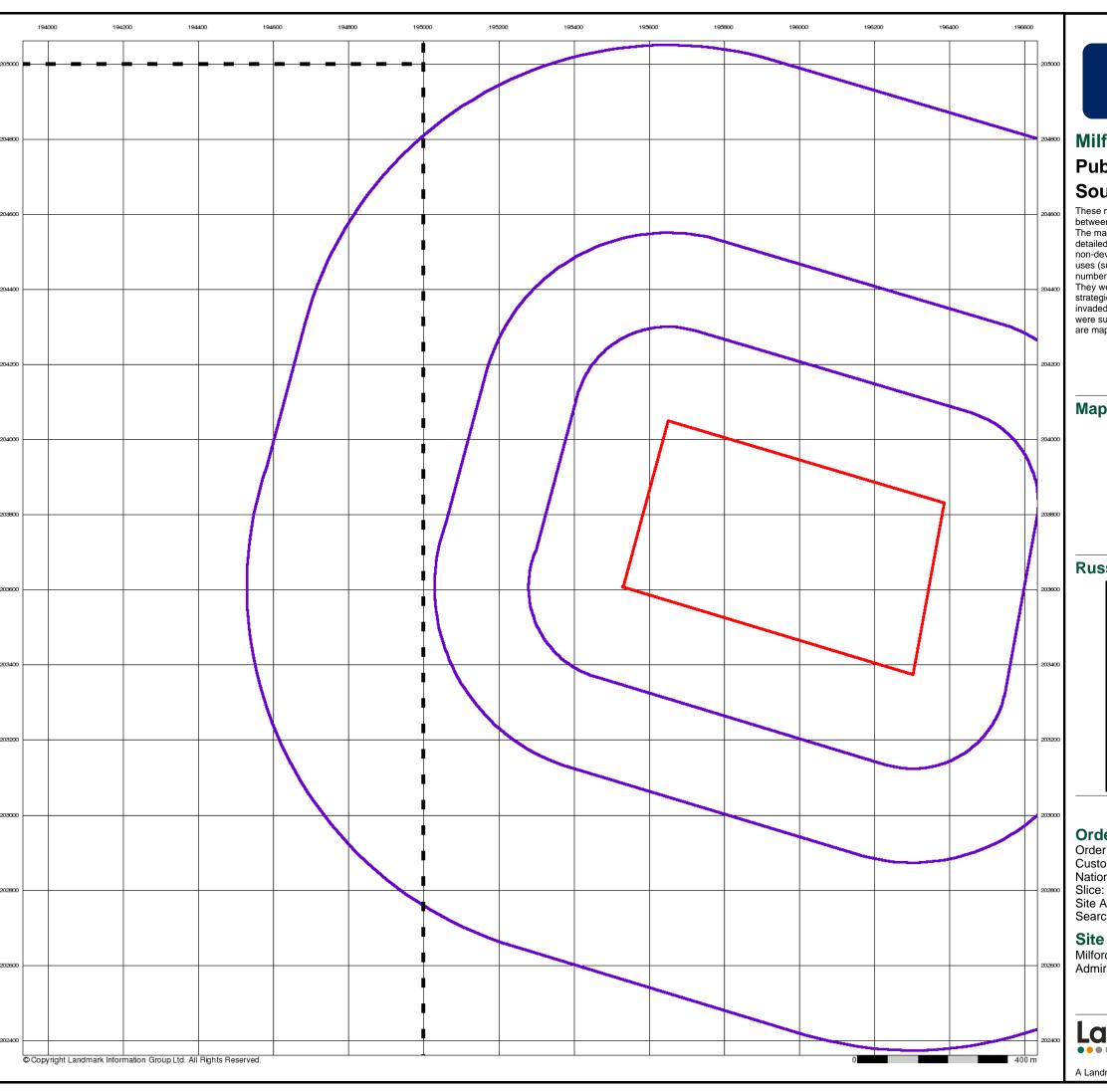
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 4 of 16





Milford Haven

Published 1950

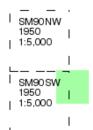
Source map scale - 1:5,000

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

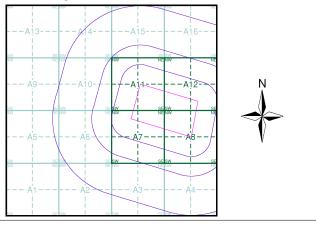
numbered key describing their use.

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

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Α Site Area (Ha): 36.27 Search Buffer (m): 1000

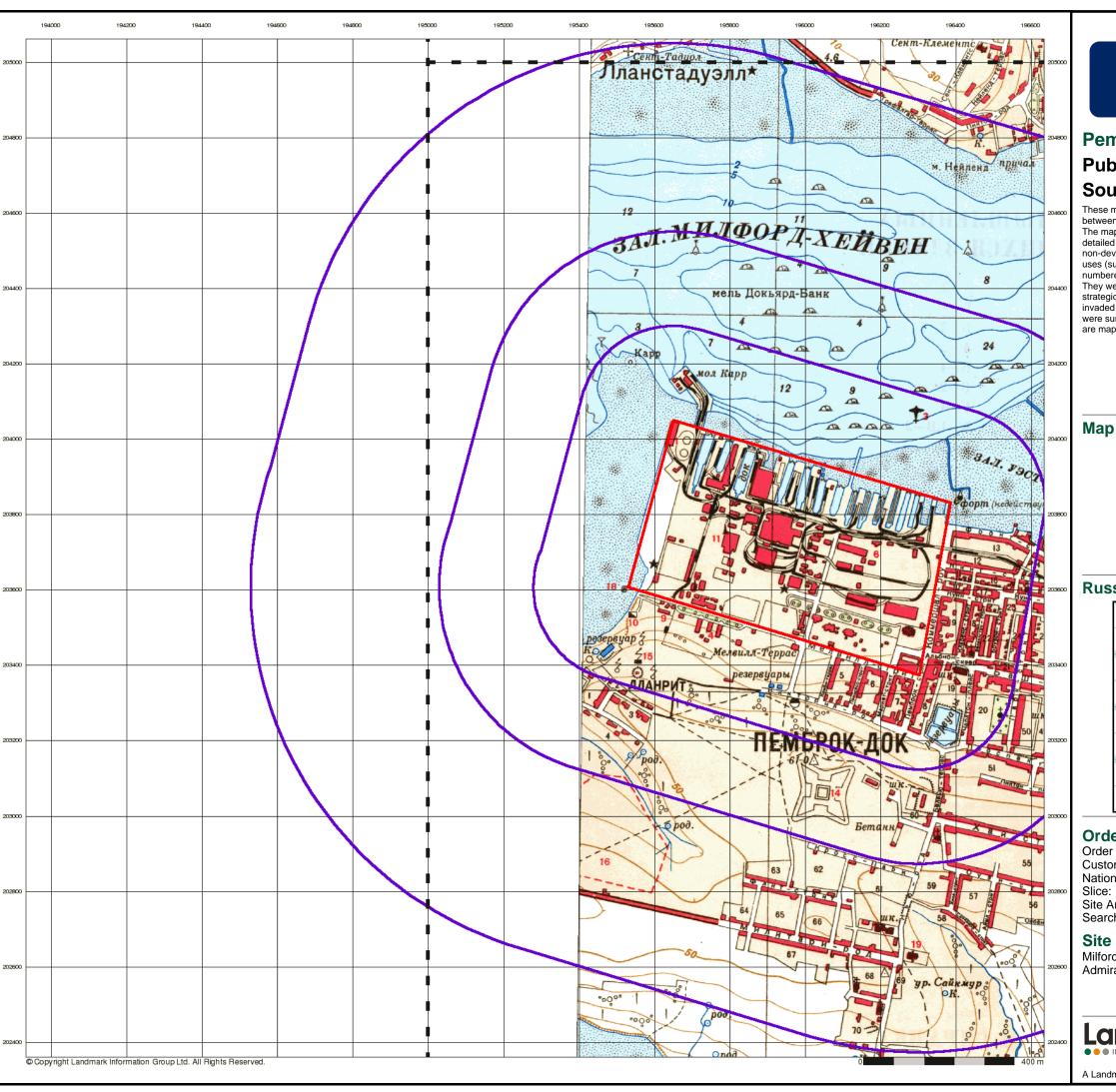
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 5 of 16





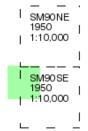
Pembroke Published 1950 Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

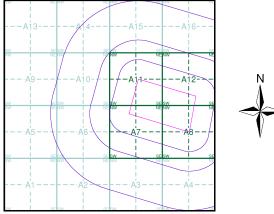
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have

invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

Order Number: 152819812_1_1 **Customer Ref:** JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

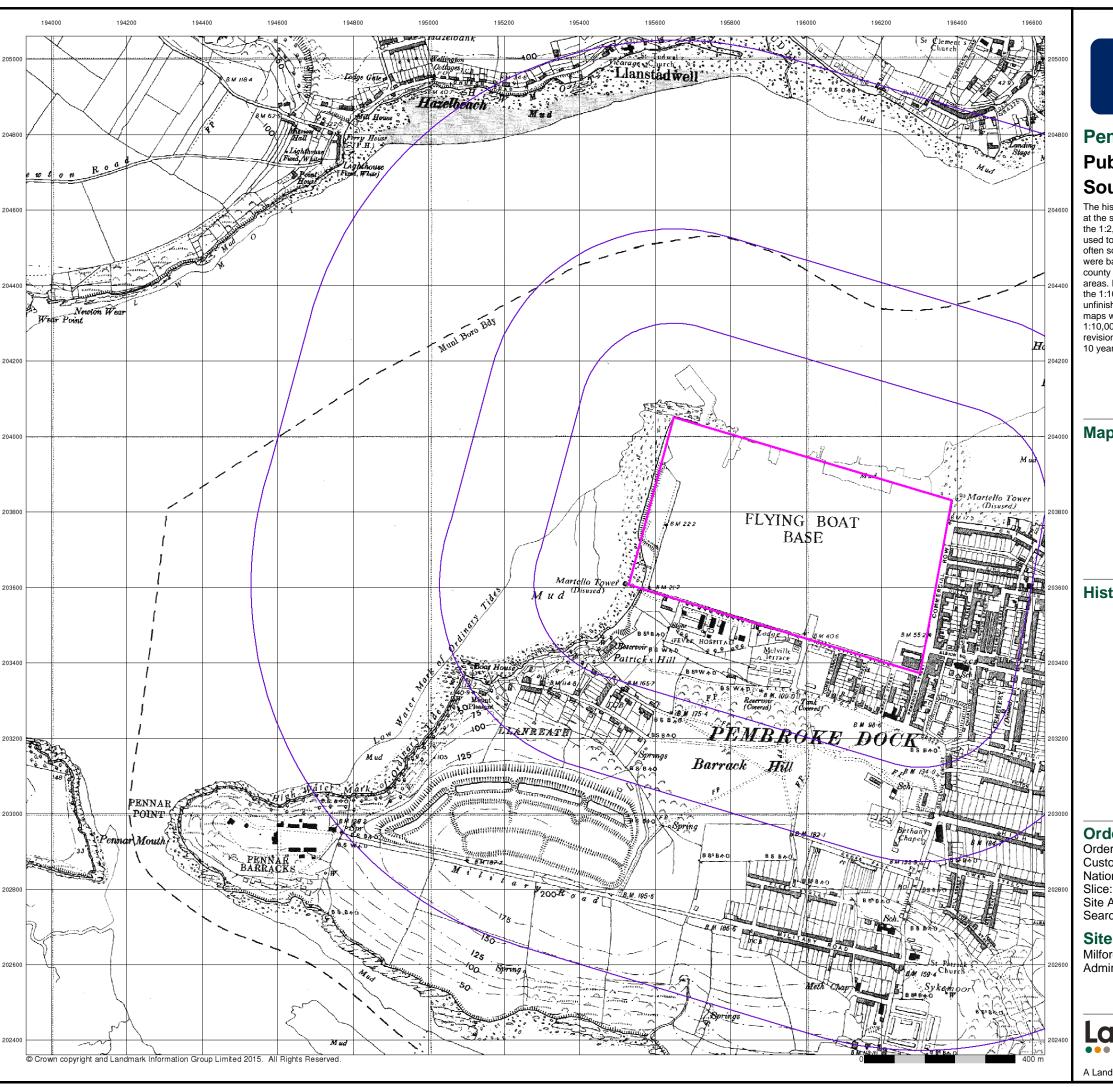
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 6 of 16





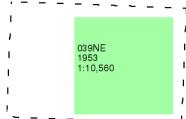
Pembrokeshire

Published 1953

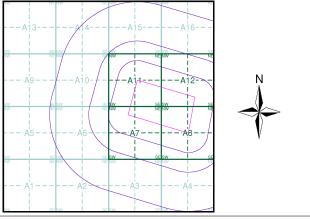
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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Published 1964

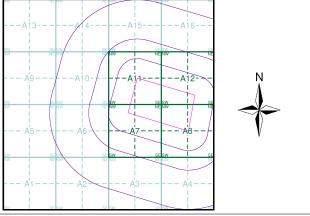
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

	- SM9 1964 1:10,		 	196	— 90NE 4 0,560	
_	_	-	_	-	_	_'
1	SM9 1964		1	196		
·	1:10,	560	ī	1:10),560	' 1

Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

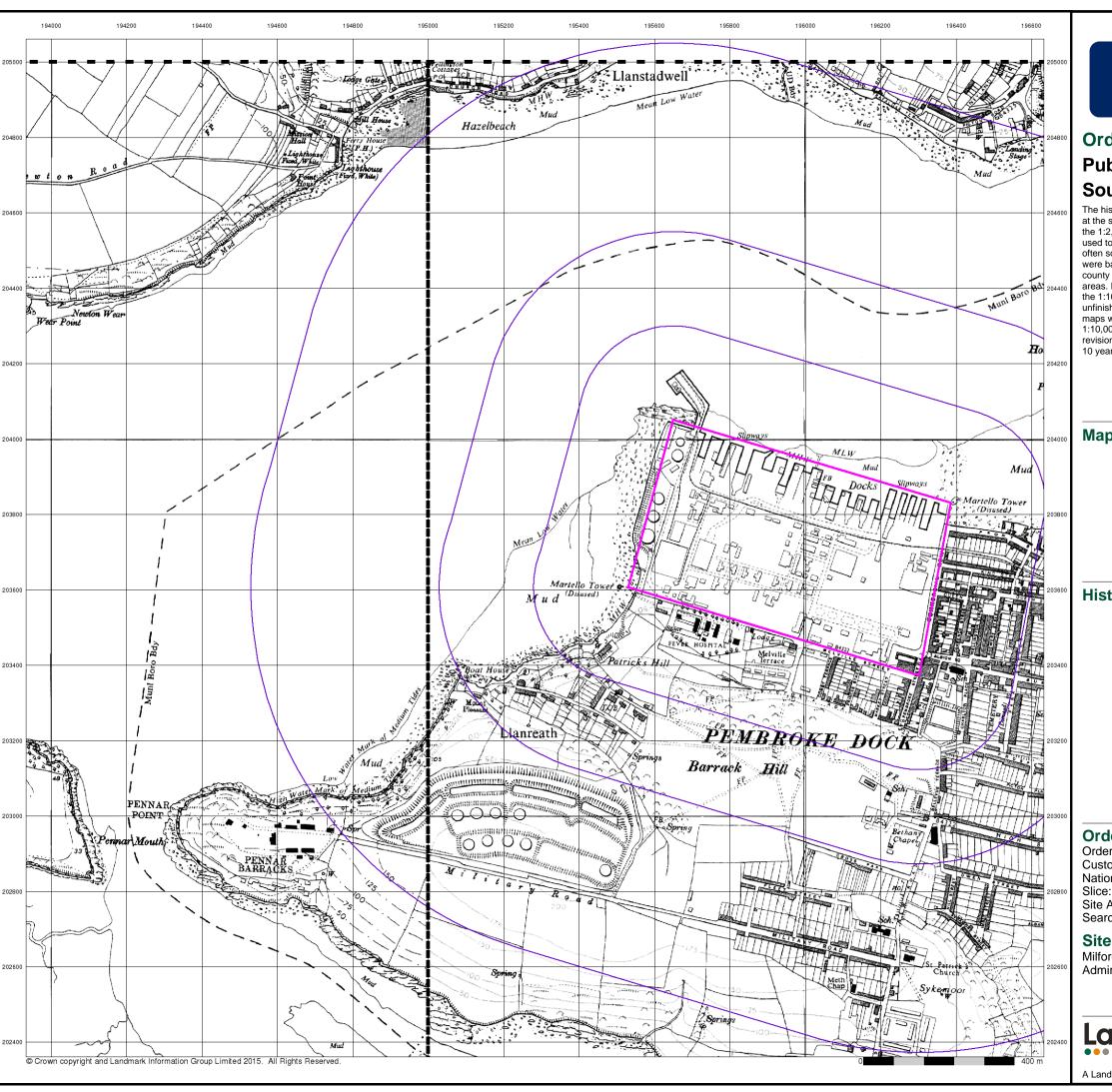
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 8 of 16

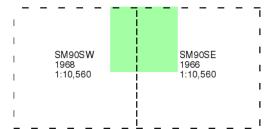




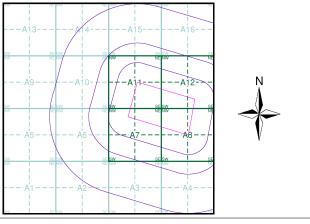
Published 1966 - 1968 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

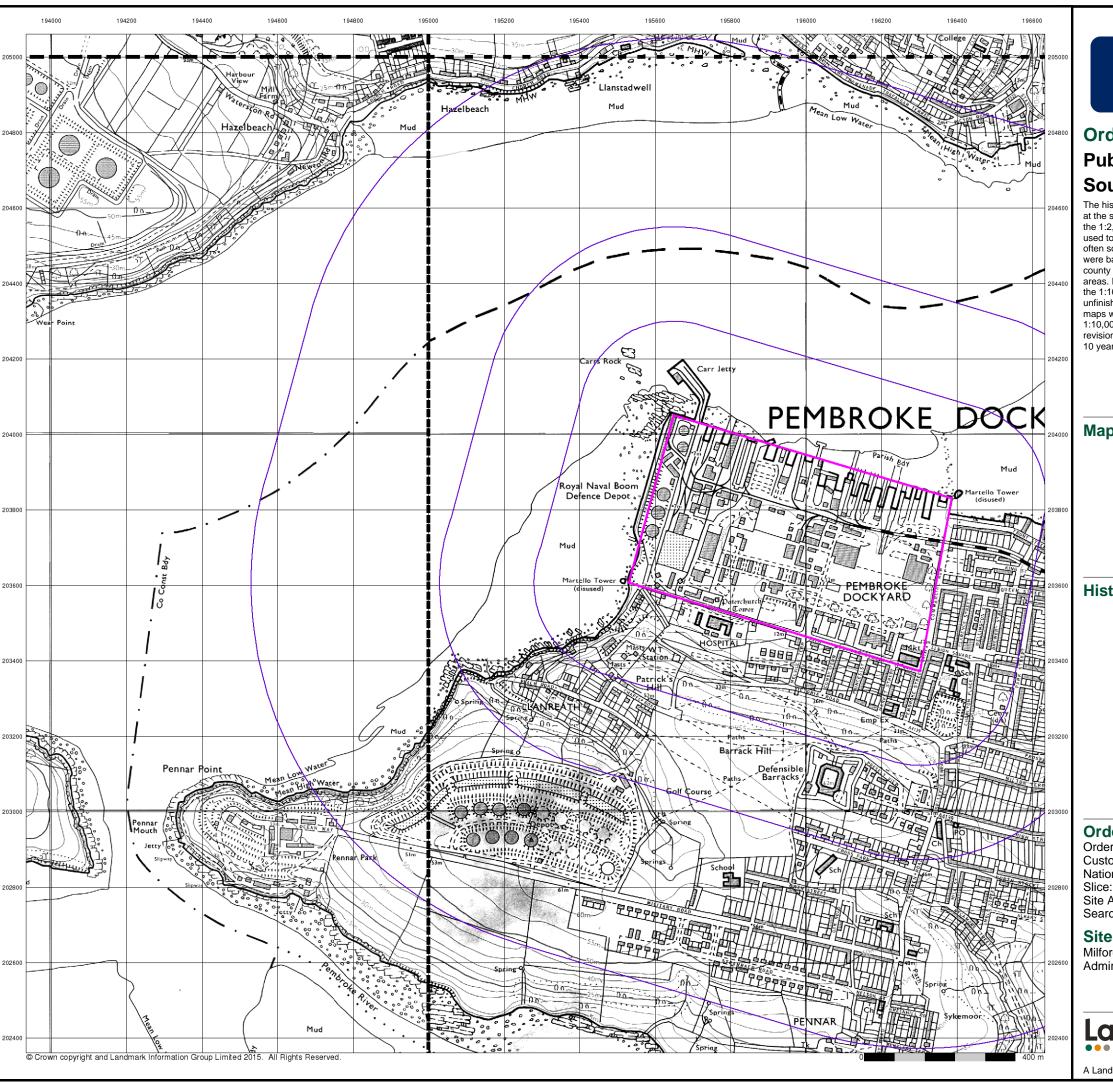
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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Ordnance Survey Plan Published 1970 - 1976

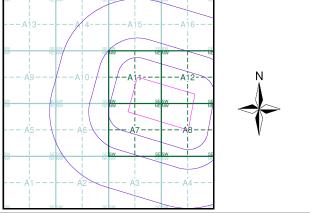
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

I	- SM9 1970 1:10,		 	- SM9 1975 1:10		- I I
_			1	1.10	,000	ا _
ı	SM9 1976		1	SM9	ose I	_ -
	1:10,	000	i	1:10	,000	i

Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

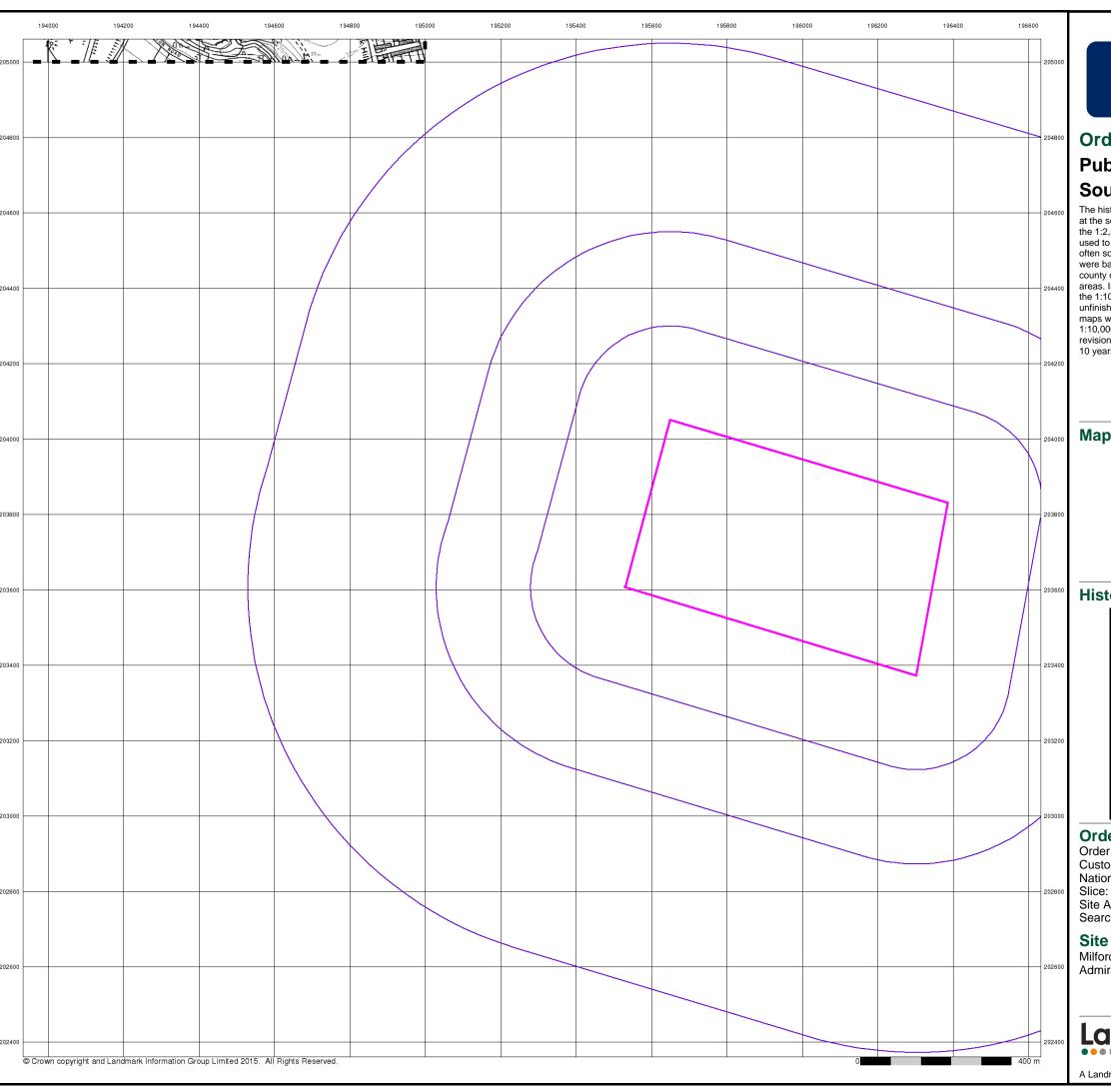
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952 0844 844 9951

A Landmark Information Group Service v50.0 12-Jan-2018 Page 10 of 16



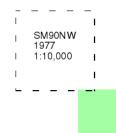


Published 1977

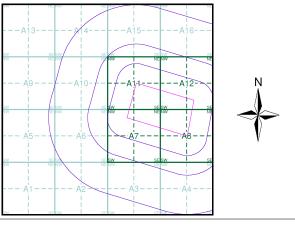
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

Slice: A
Site Area (Ha): 36.27
Search Buffer (m): 1000

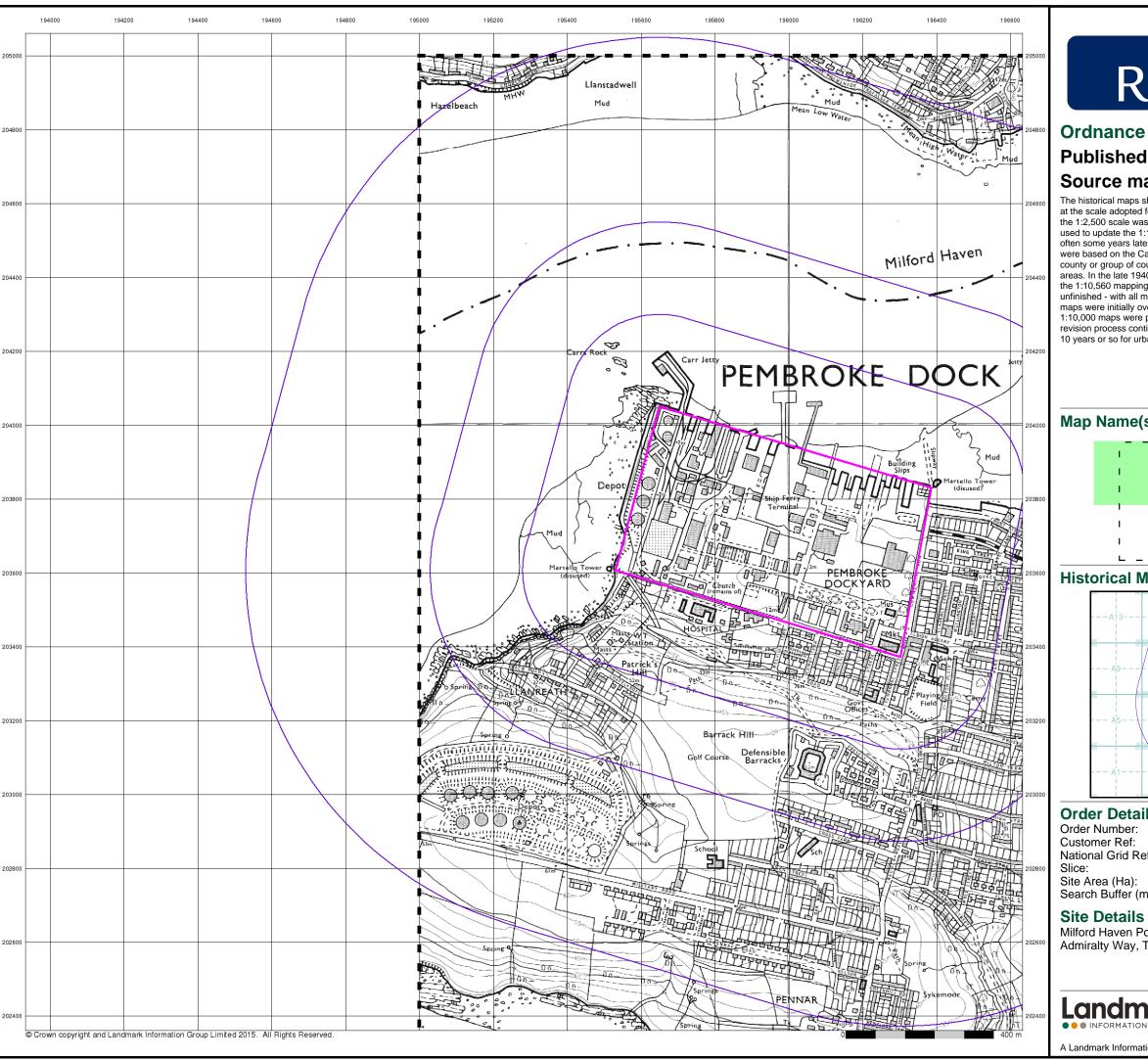
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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

A Landmark Information Group Service v50.0 12-Jan-2018 Page 11 of 16



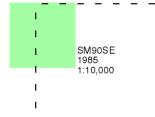


Published 1985

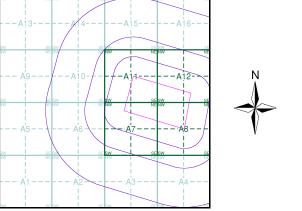
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

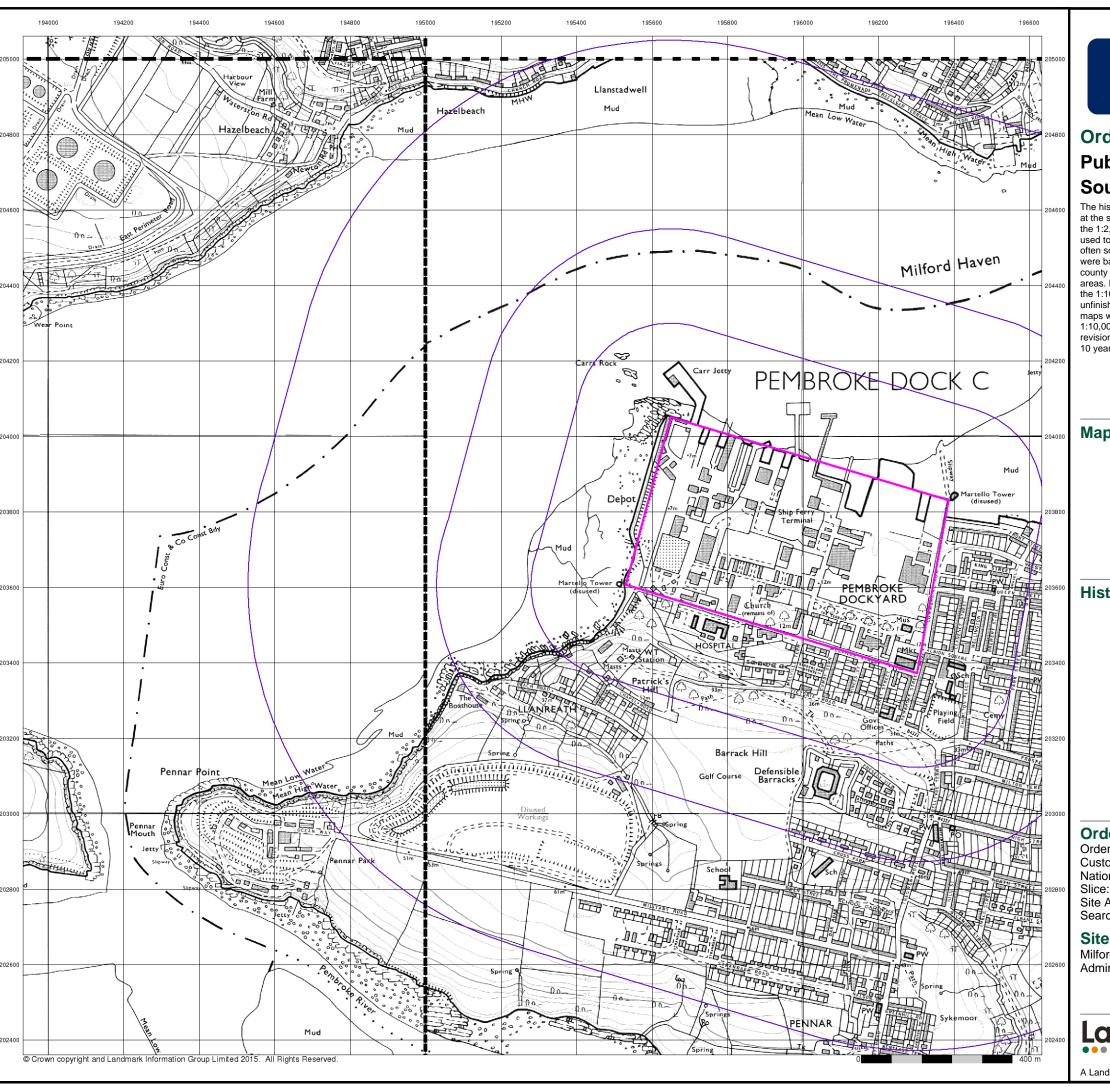
Site Area (Ha): Search Buffer (m): 36.27 1000

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952 0844 844 9951

A Landmark Information Group Service v50.0 12-Jan-2018 Page 12 of 16

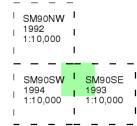




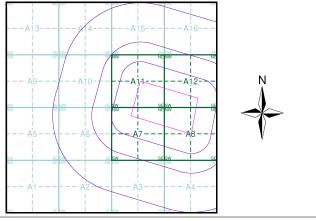
Published 1992 - 1994 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

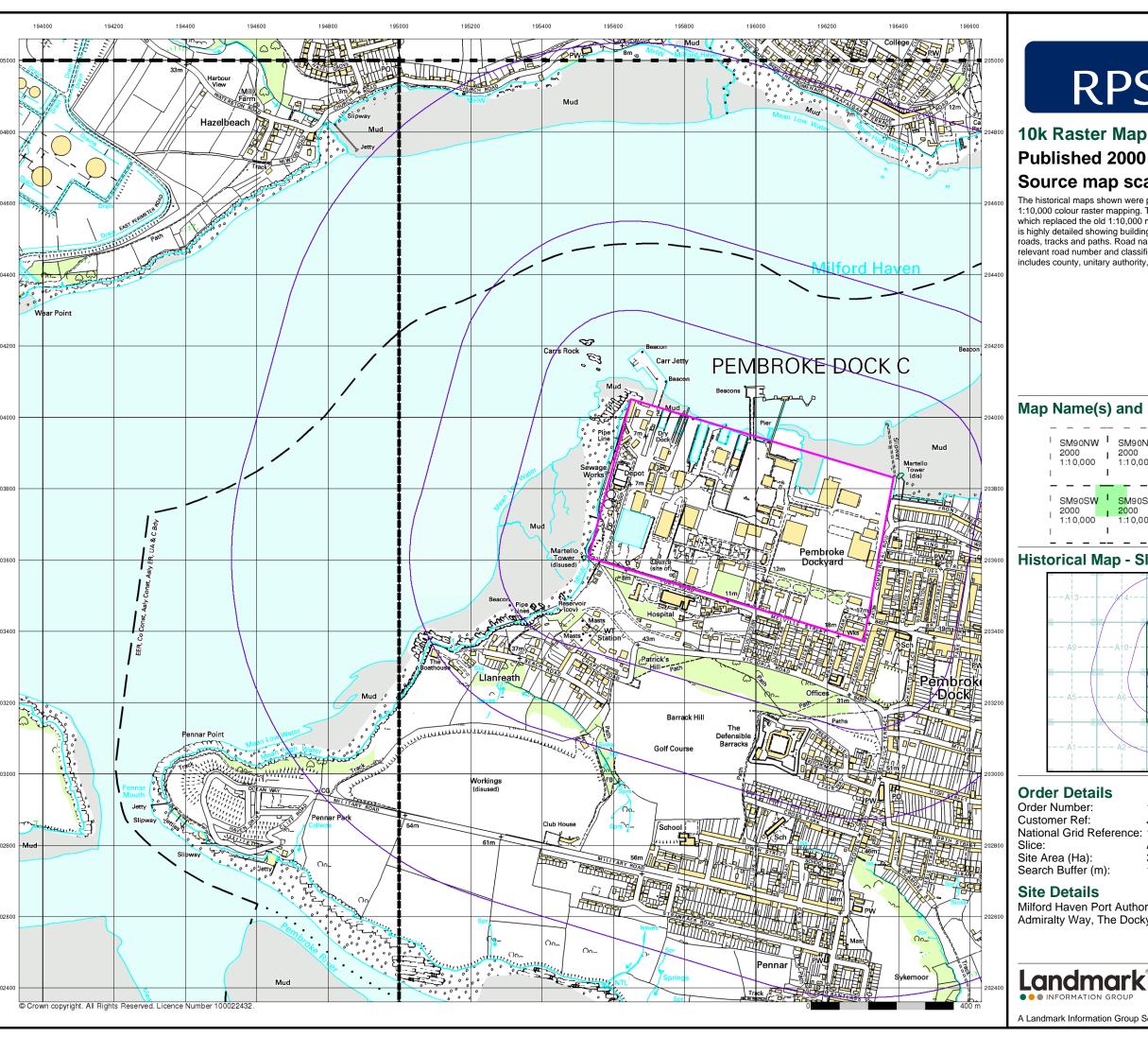
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 13 of 16





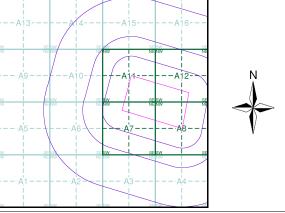
10k Raster Mapping Published 2000 Source map scale - 1:10,000

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

Map Name(s) and Date(s)

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ı			- 1				•

Historical Map - Slice A



152819812_1_1 JER1262 National Grid Reference: 195690, 203730

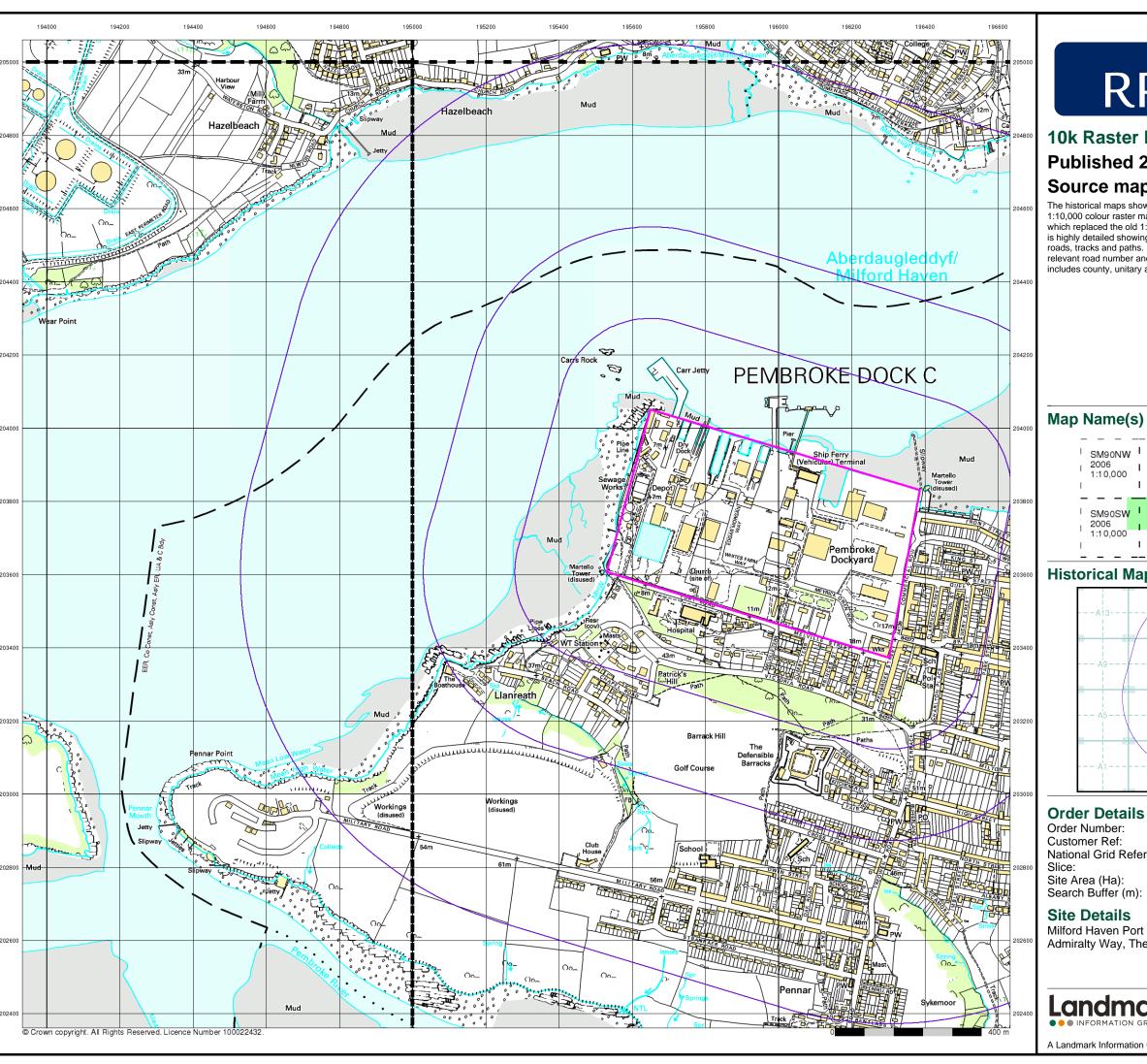
36.27 1000

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A Landmark Information Group Service v50.0 12-Jan-2018 Page 14 of 16





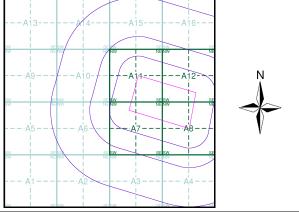
10k Raster Mapping Published 2006 Source map scale - 1:10,000

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

Map Name(s) and Date(s)

_				_
1 1 1	SM90NV 2006 1:10,000		SM90NE 2006 1:10,000	
_		_		_
 	SM90SW 2006 1:10,000		SM90SE 2006 1:10,000	
1	,	- 1	,	

Historical Map - Slice A



152819812_1_1 JER1262 National Grid Reference: 195690, 203730

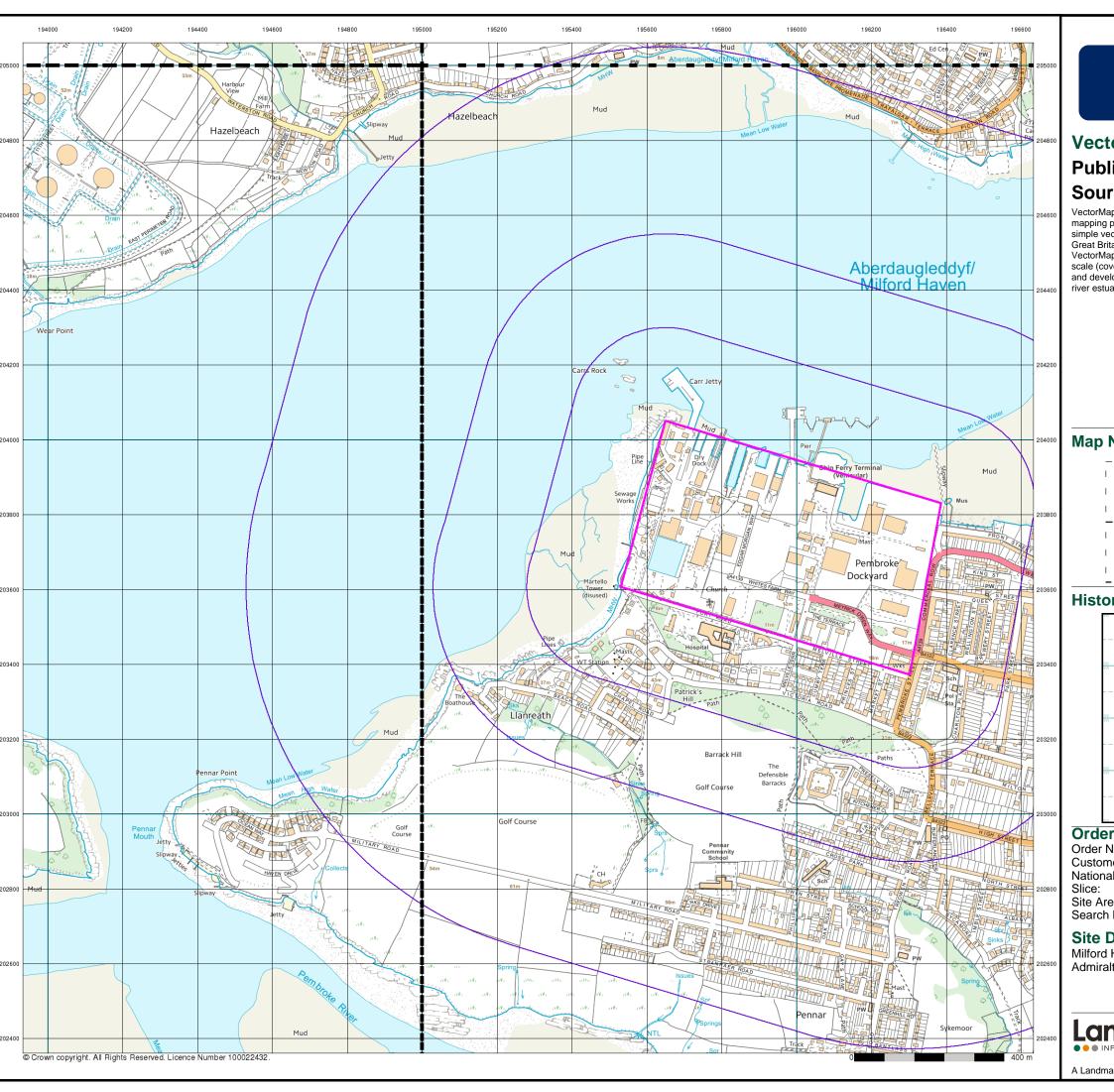
36.27 1000

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 15 of 16





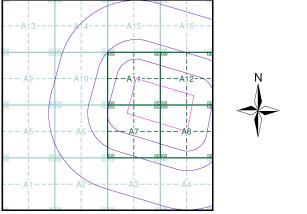
VectorMap Local Published 2017 Source map scale - 1:10,000

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

Map Name(s) and Date(s)

 	SM90NV 2017 Variable	V I I	SM90NE 2017 Variable	-
 	SM90SV 2017 Variable	— V I	SM90SE 2017 Variable	-

Historical Map - Slice A



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 1000

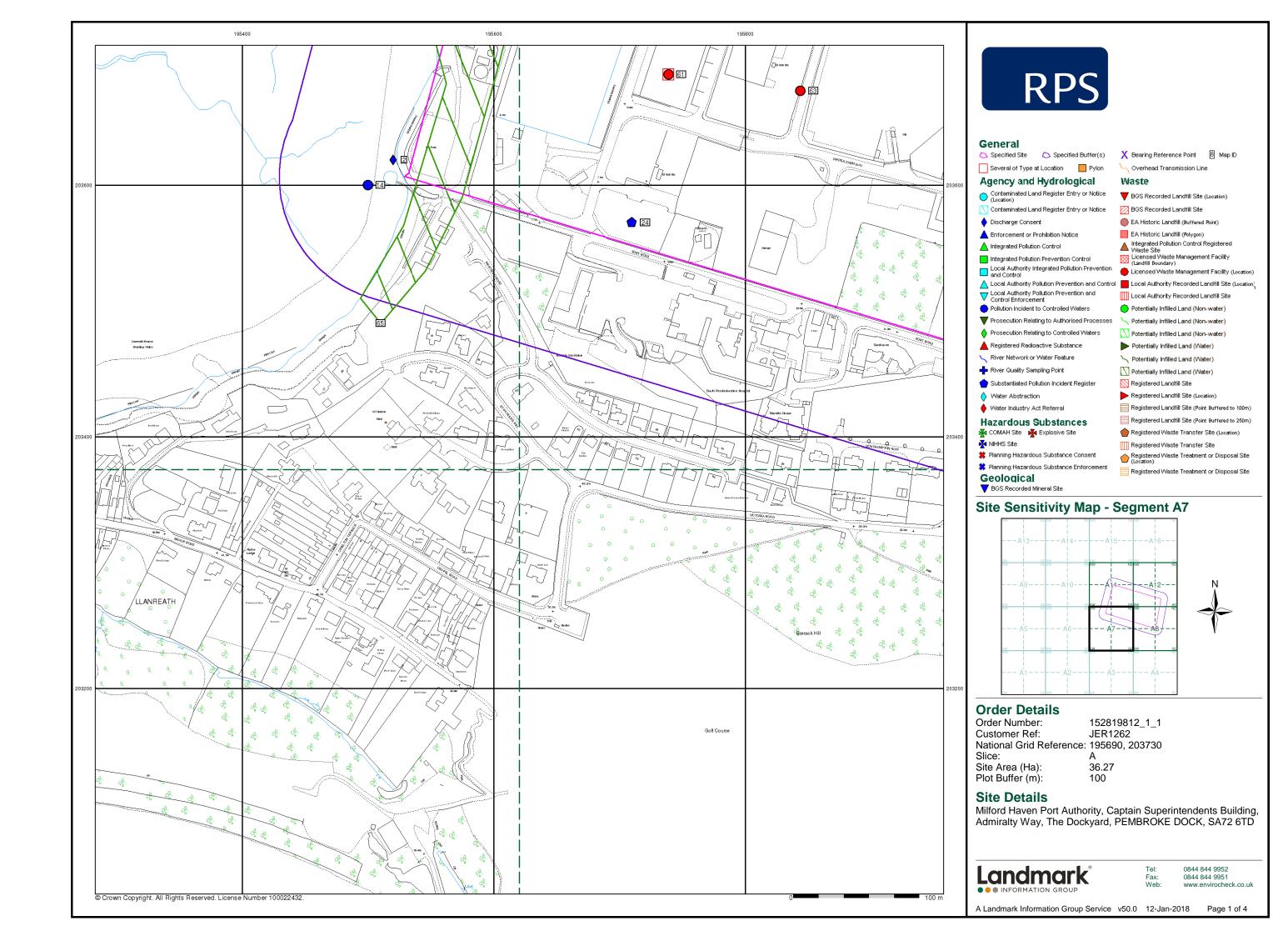
Site Details

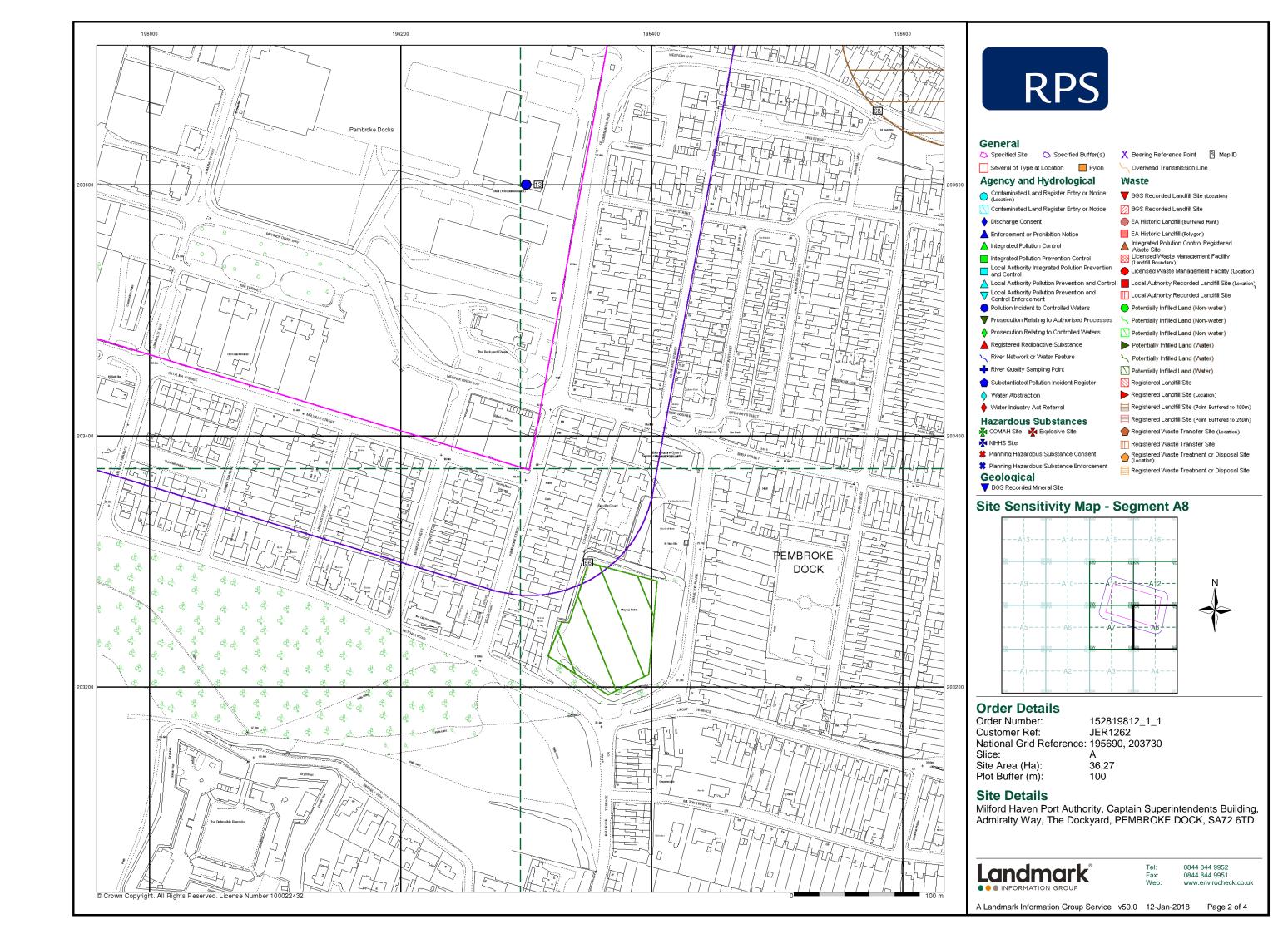
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

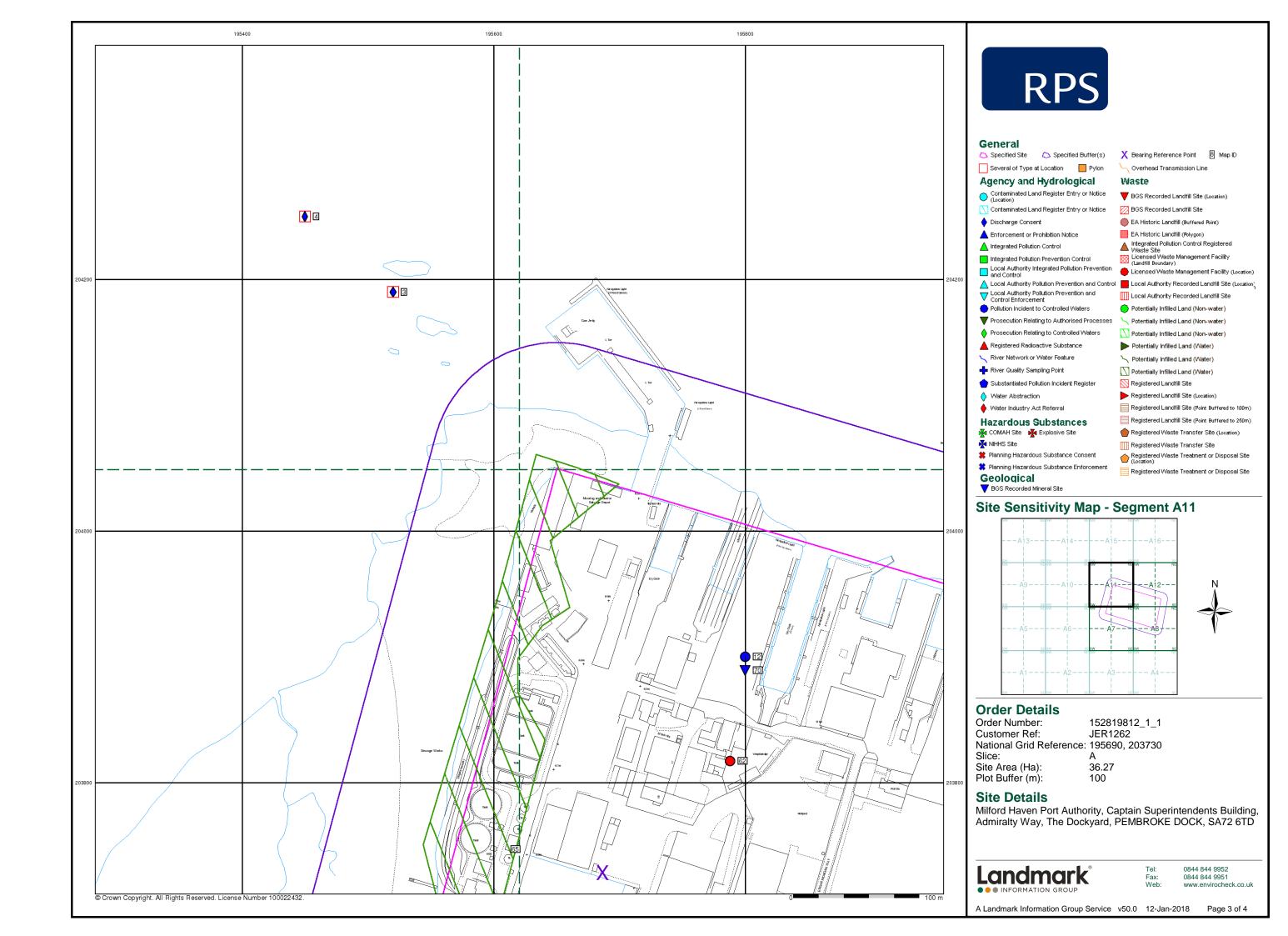


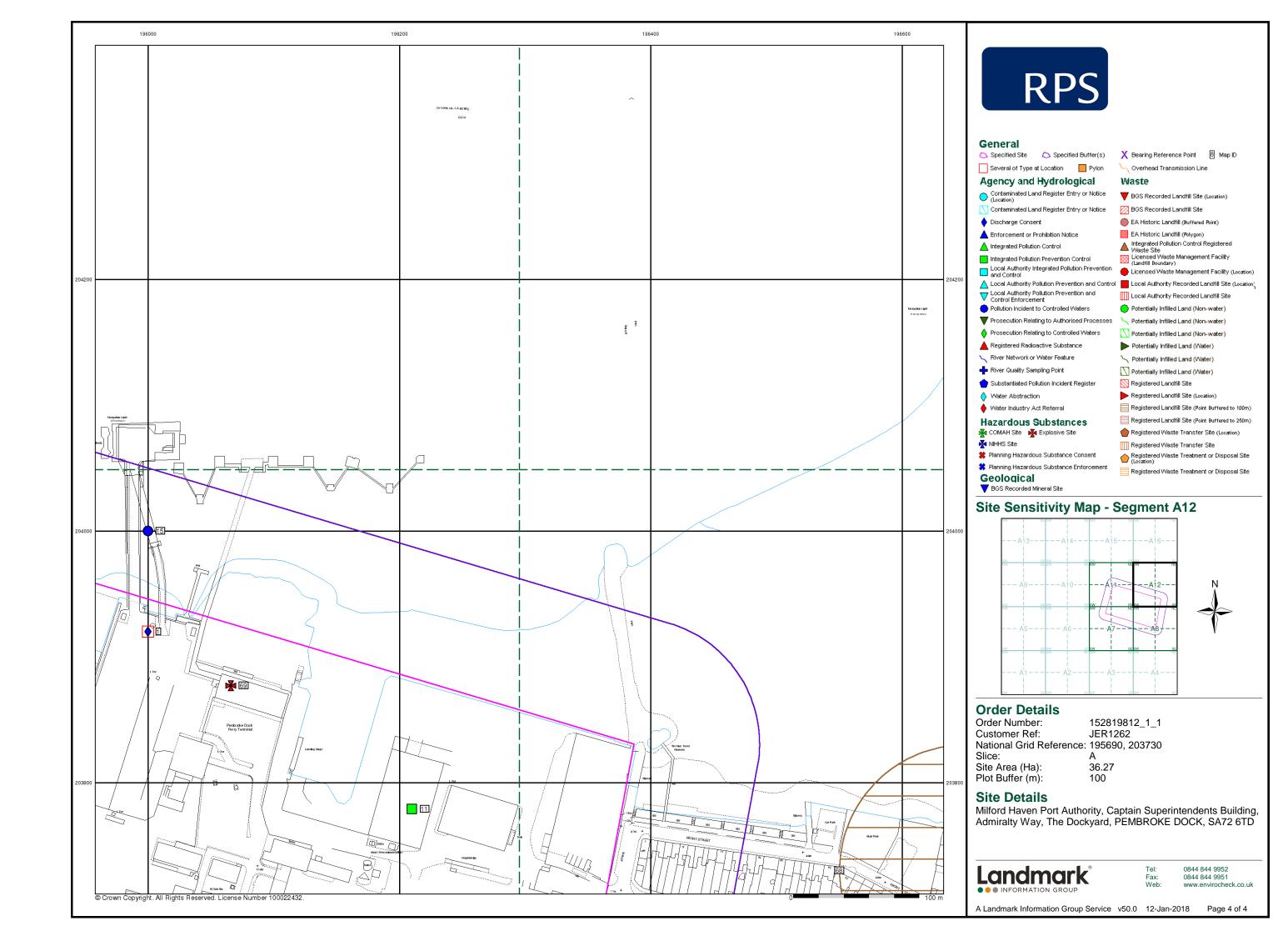
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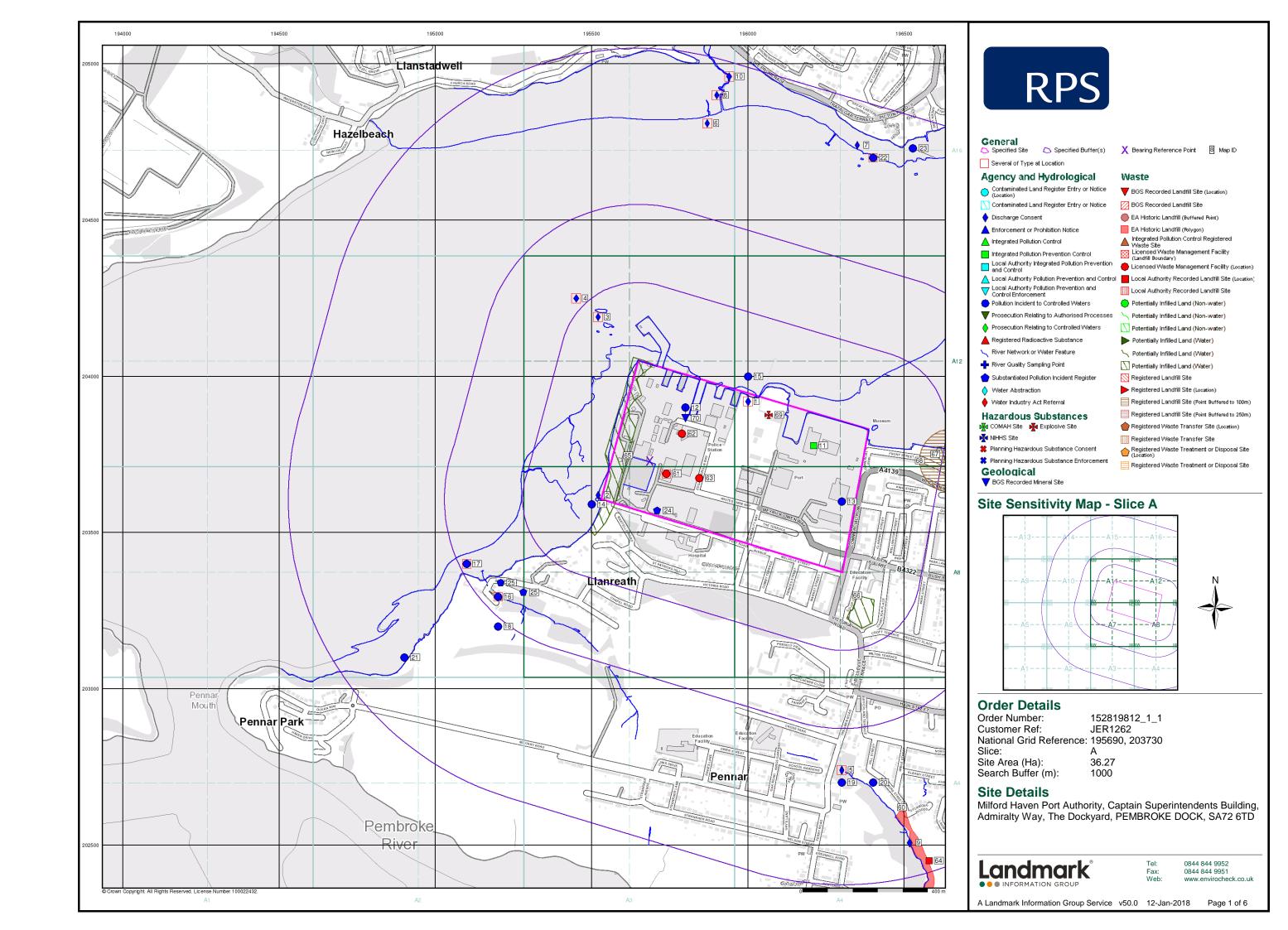
A Landmark Information Group Service v50.0 12-Jan-2018 Page 16 of 16

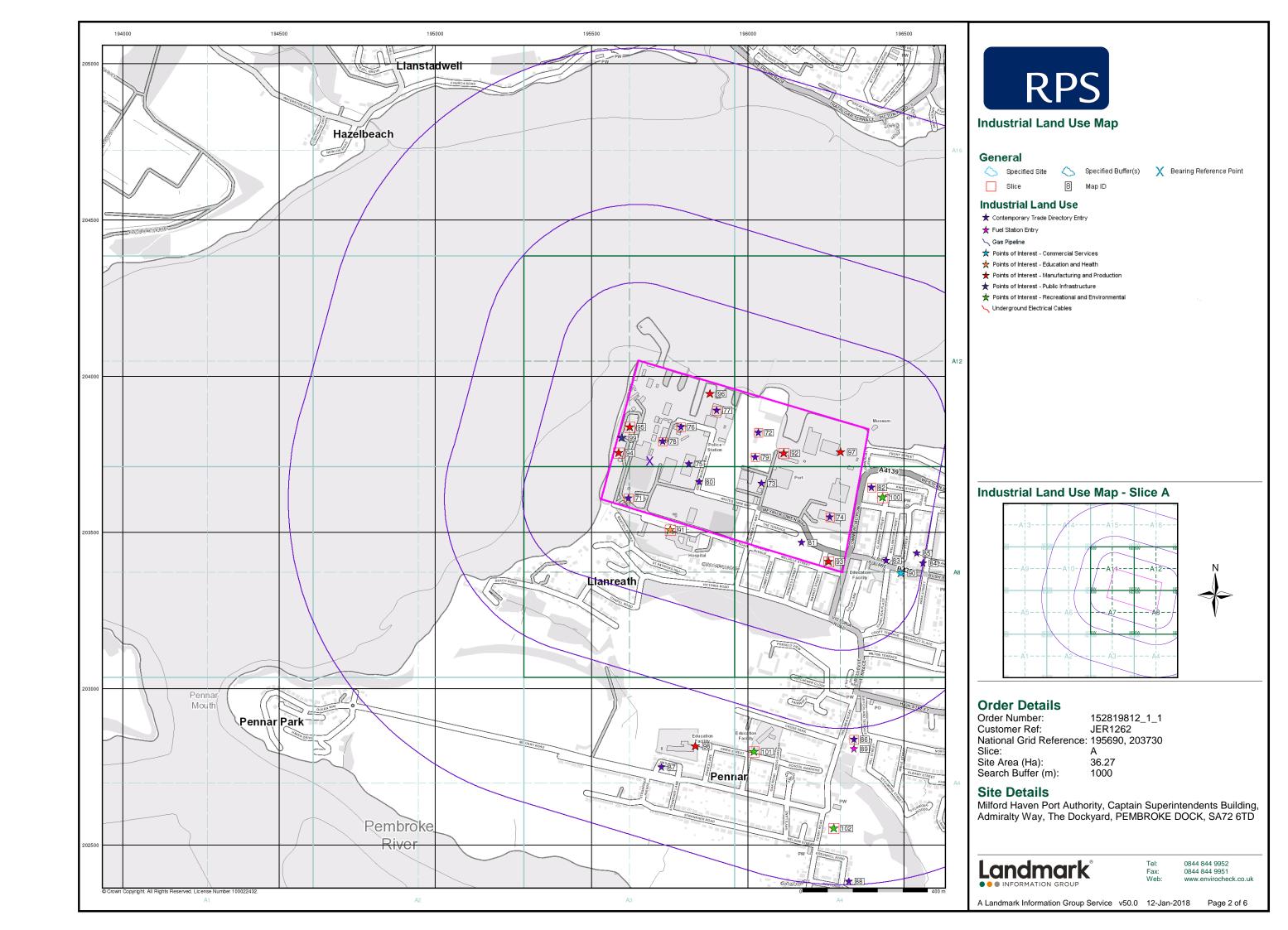


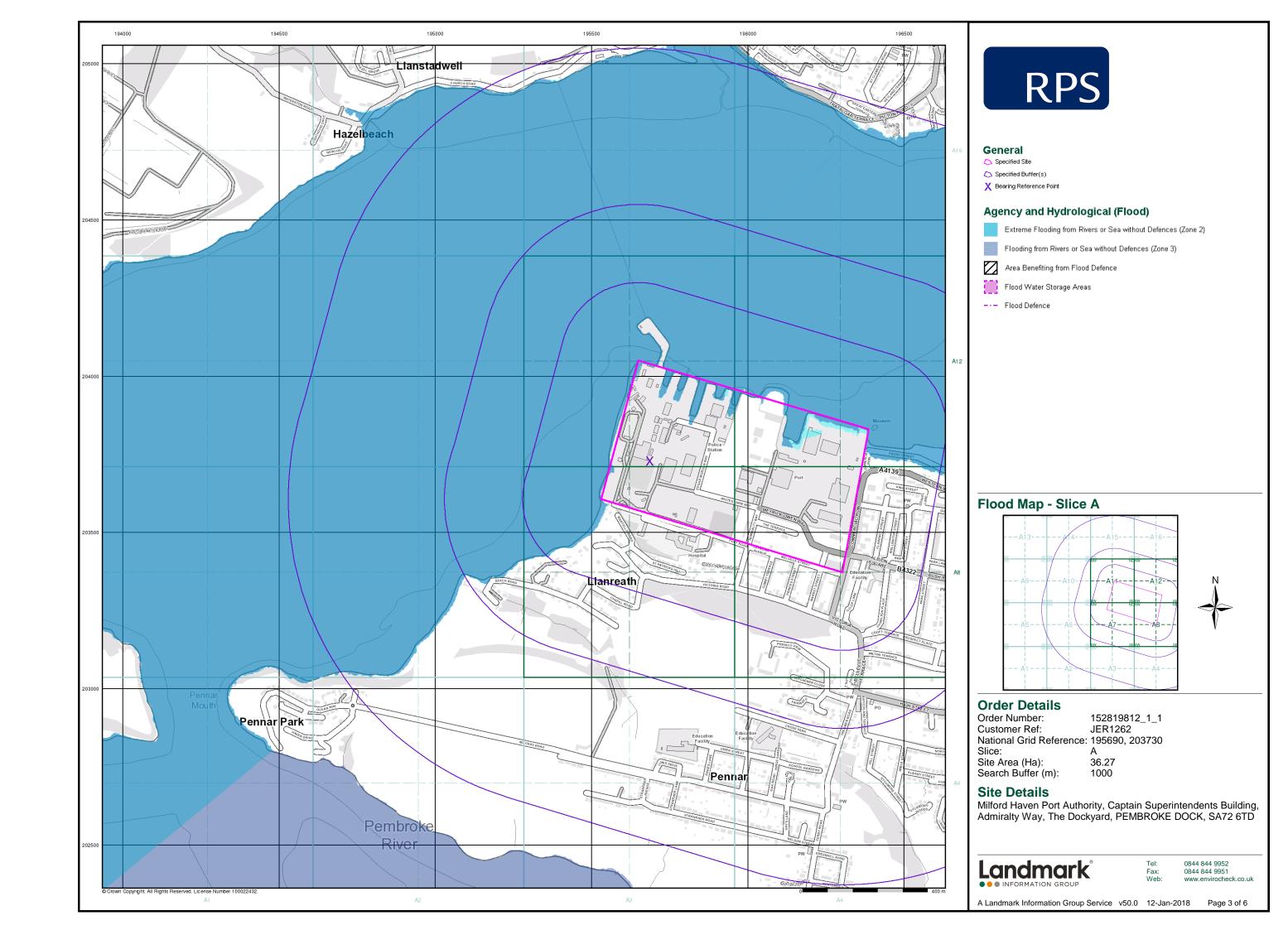


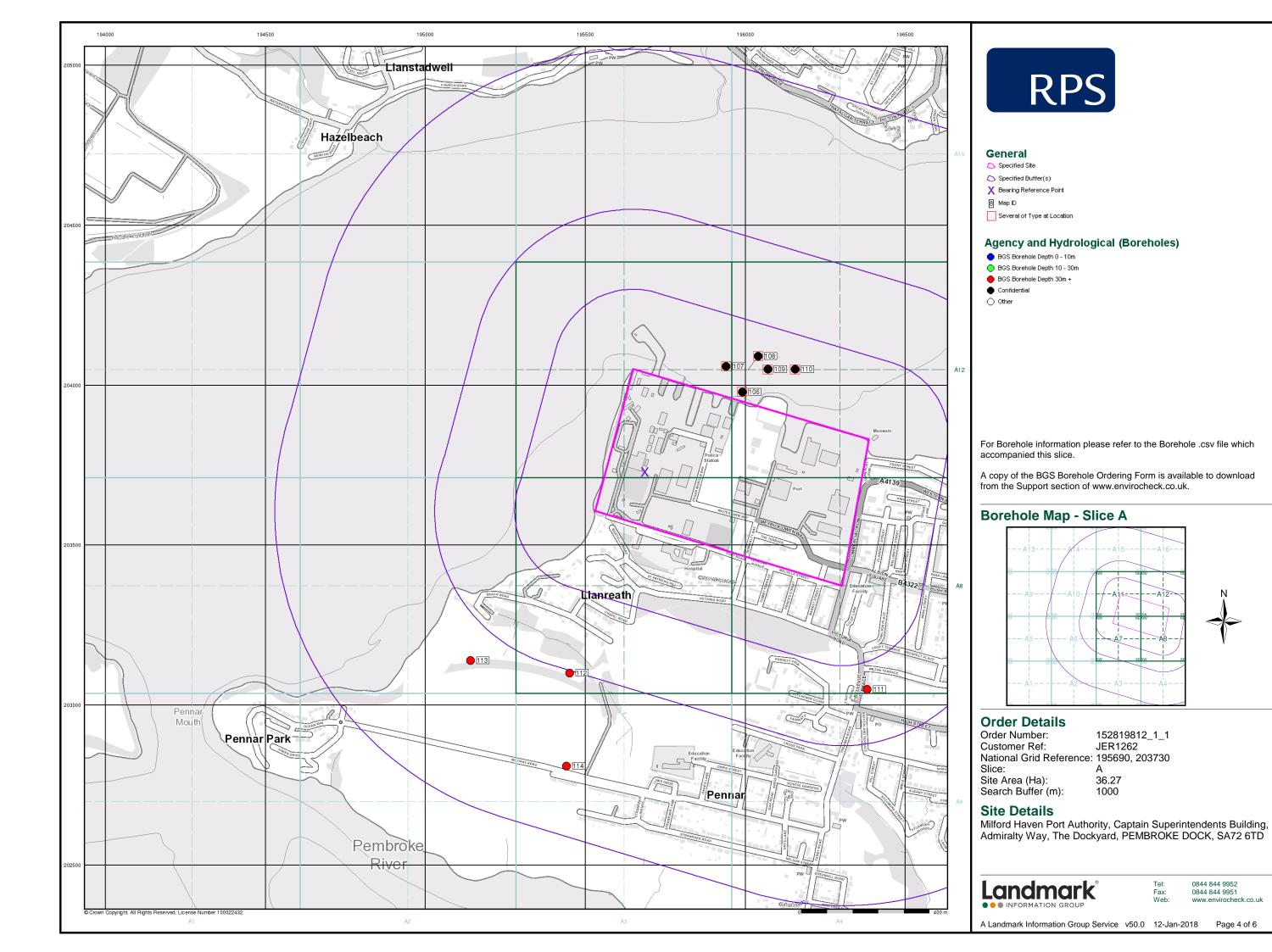


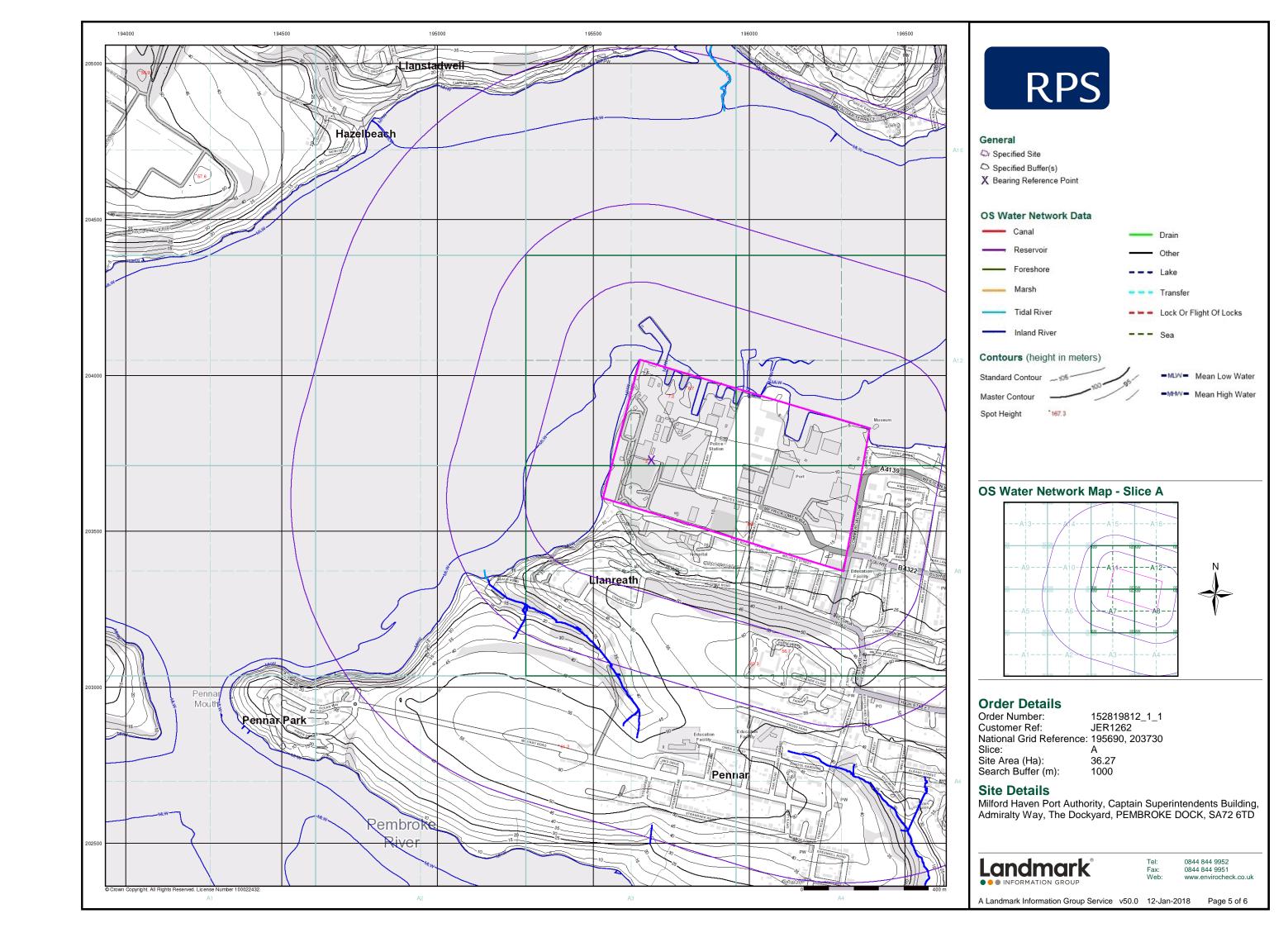


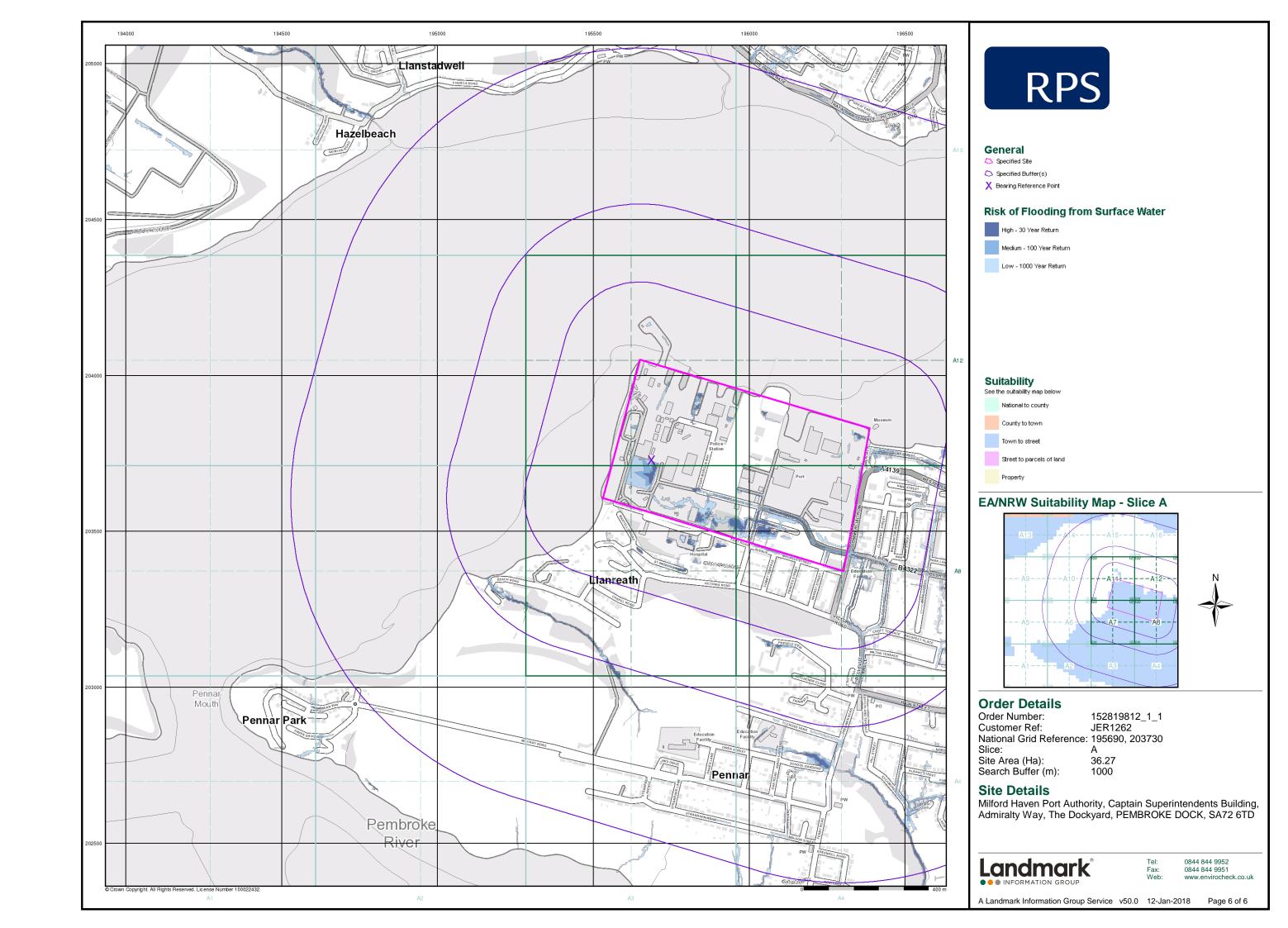


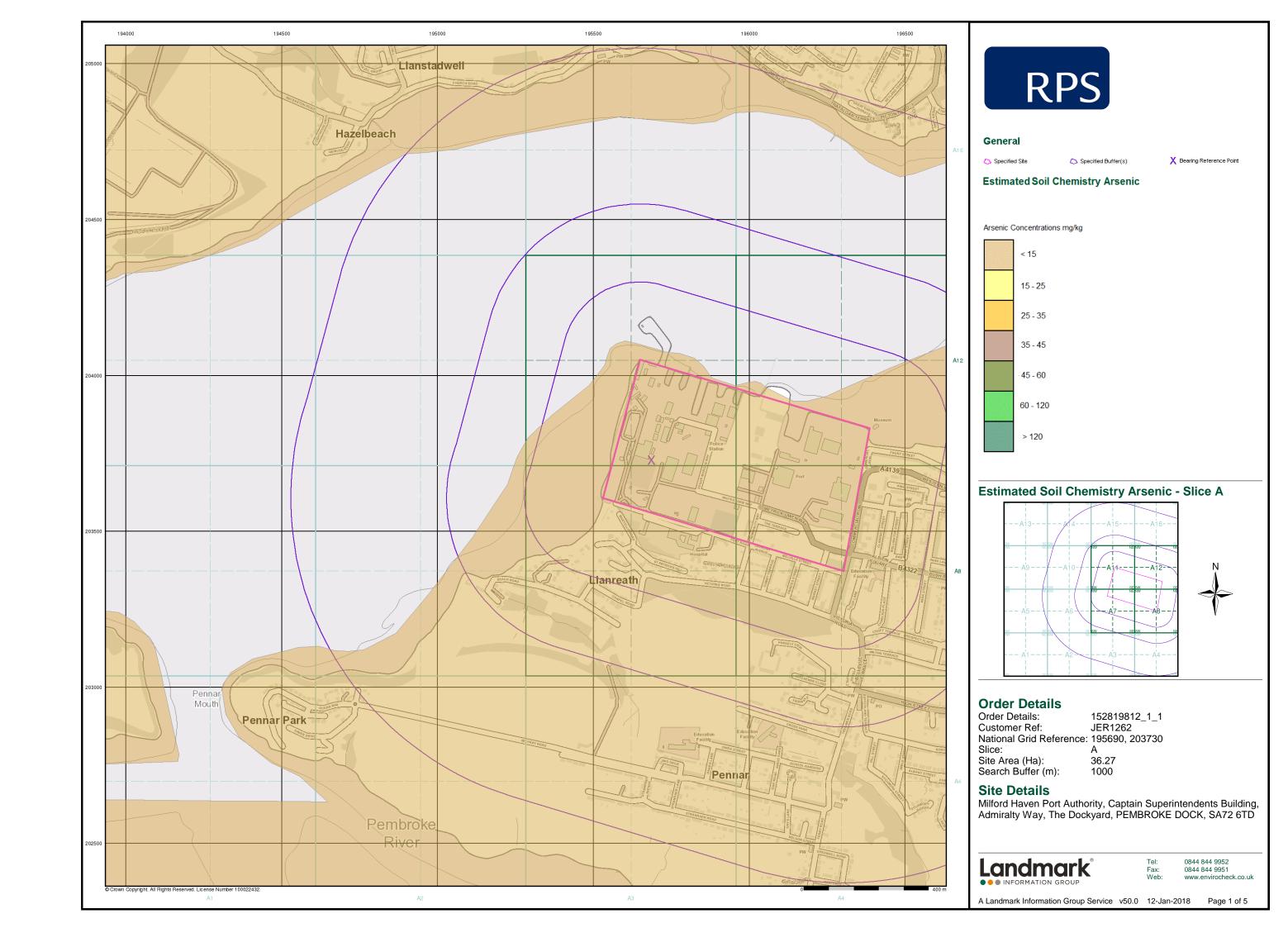


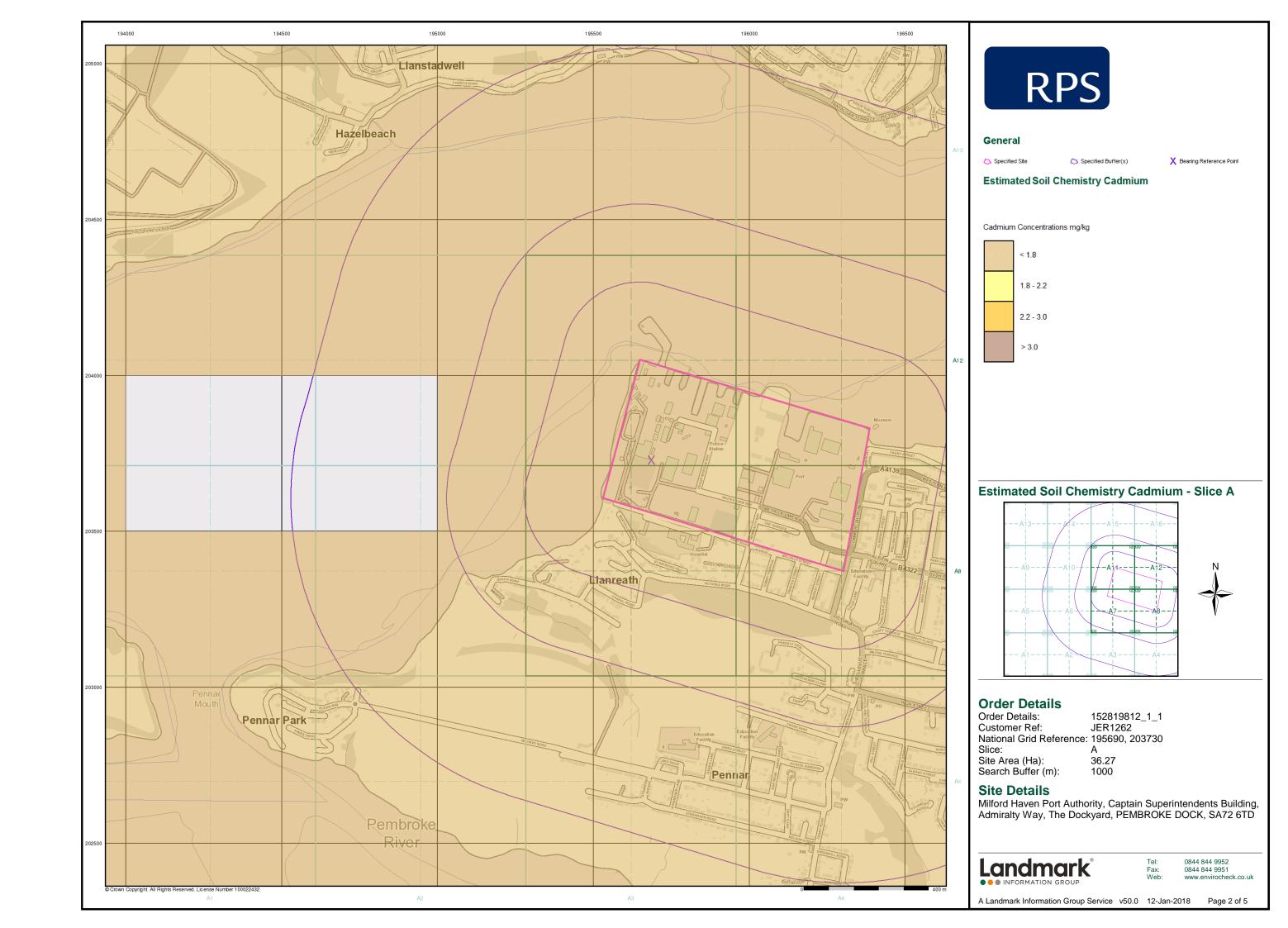


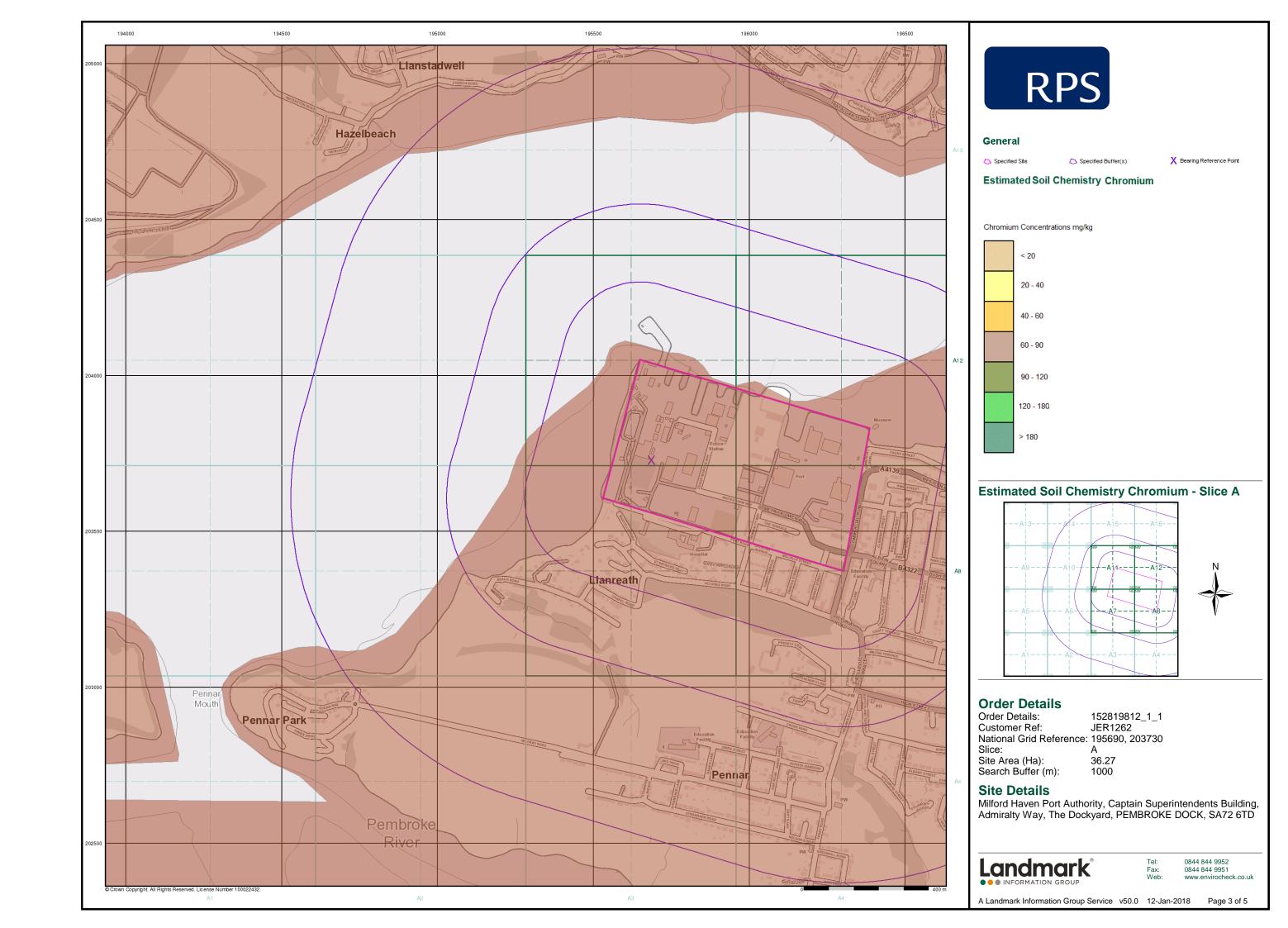


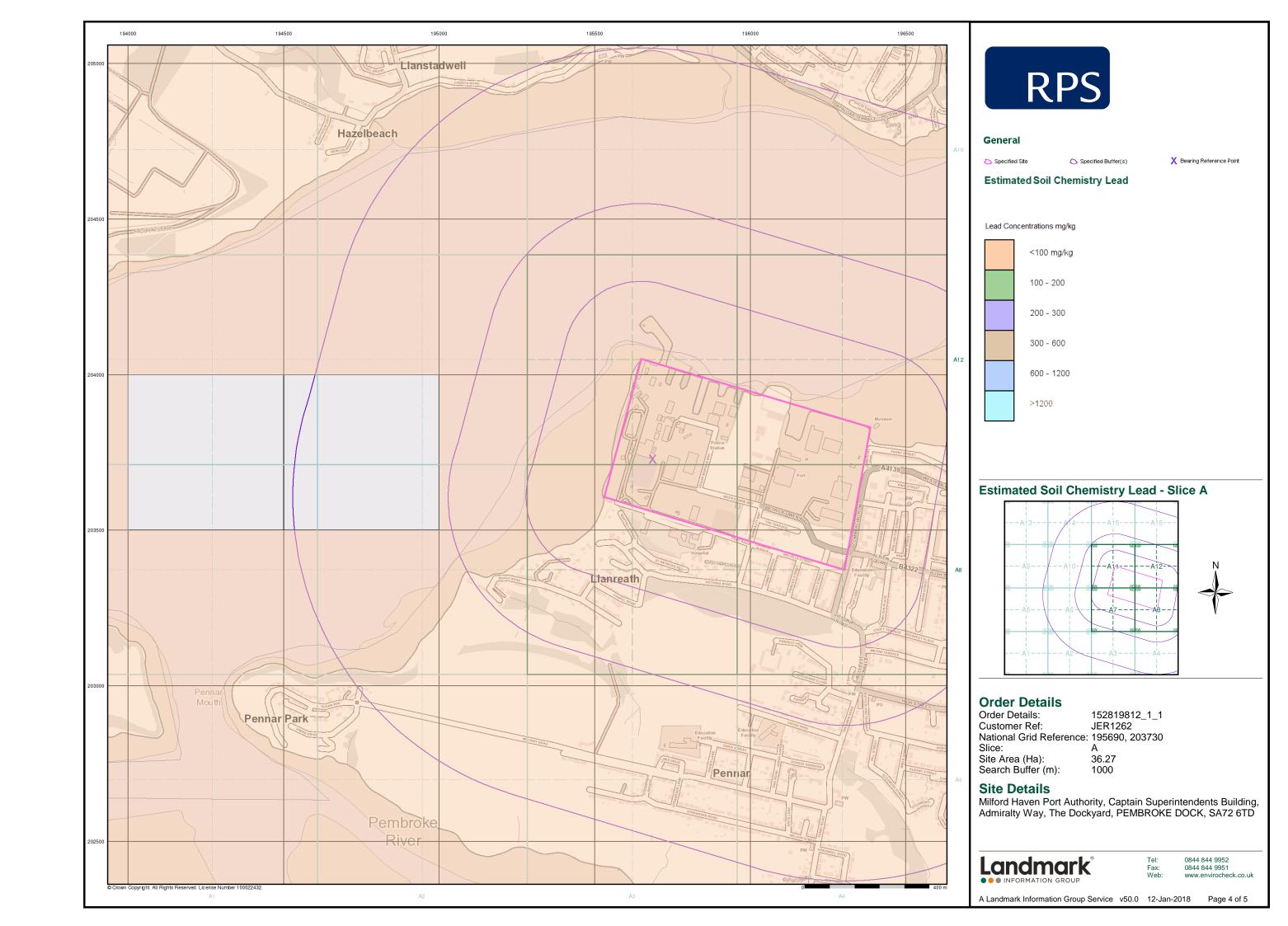


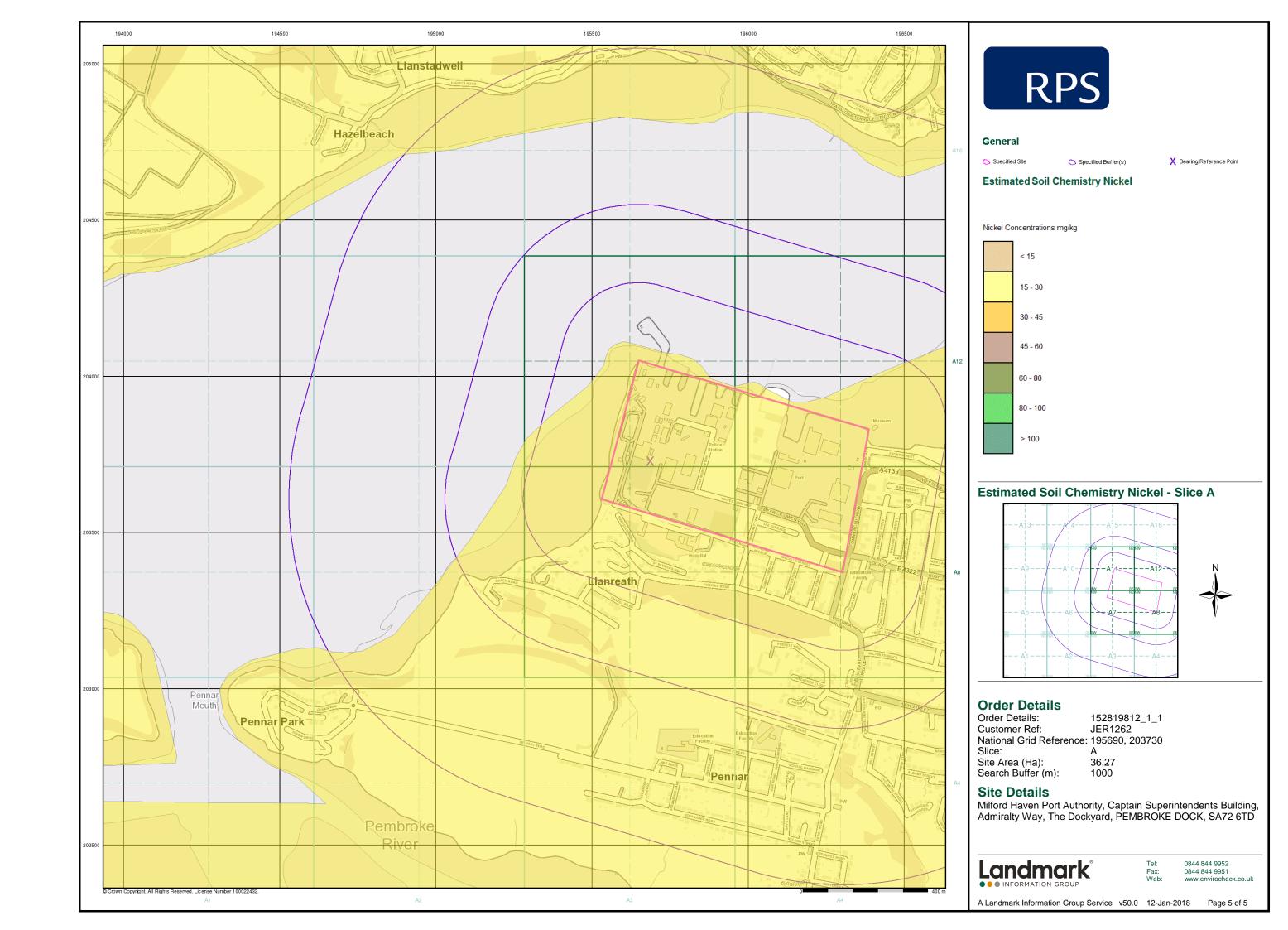


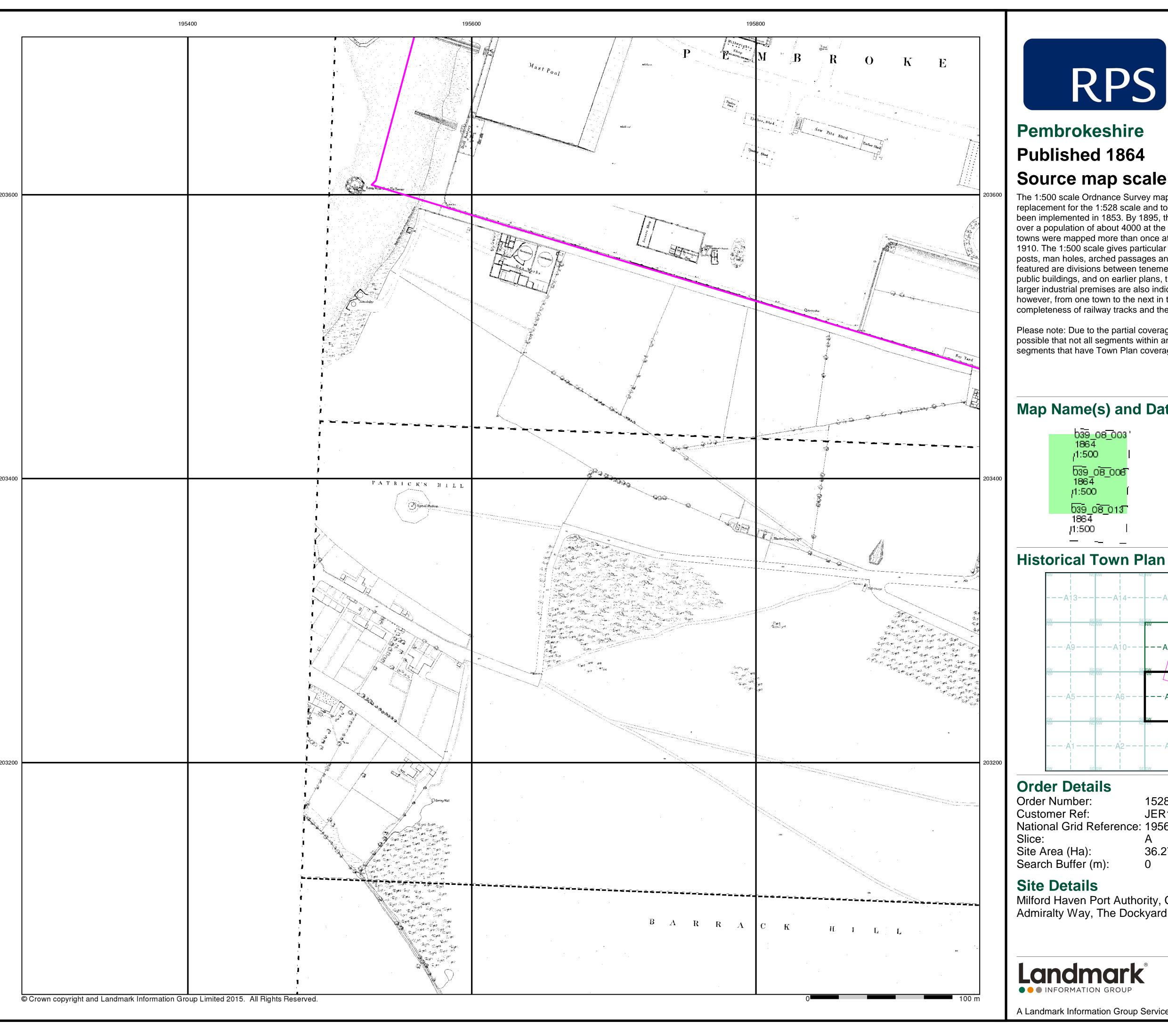












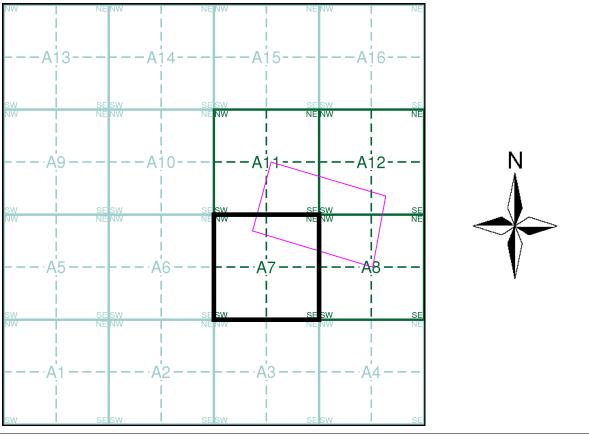
Source map scale - 1:500

The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

Historical Town Plan - Segment A7



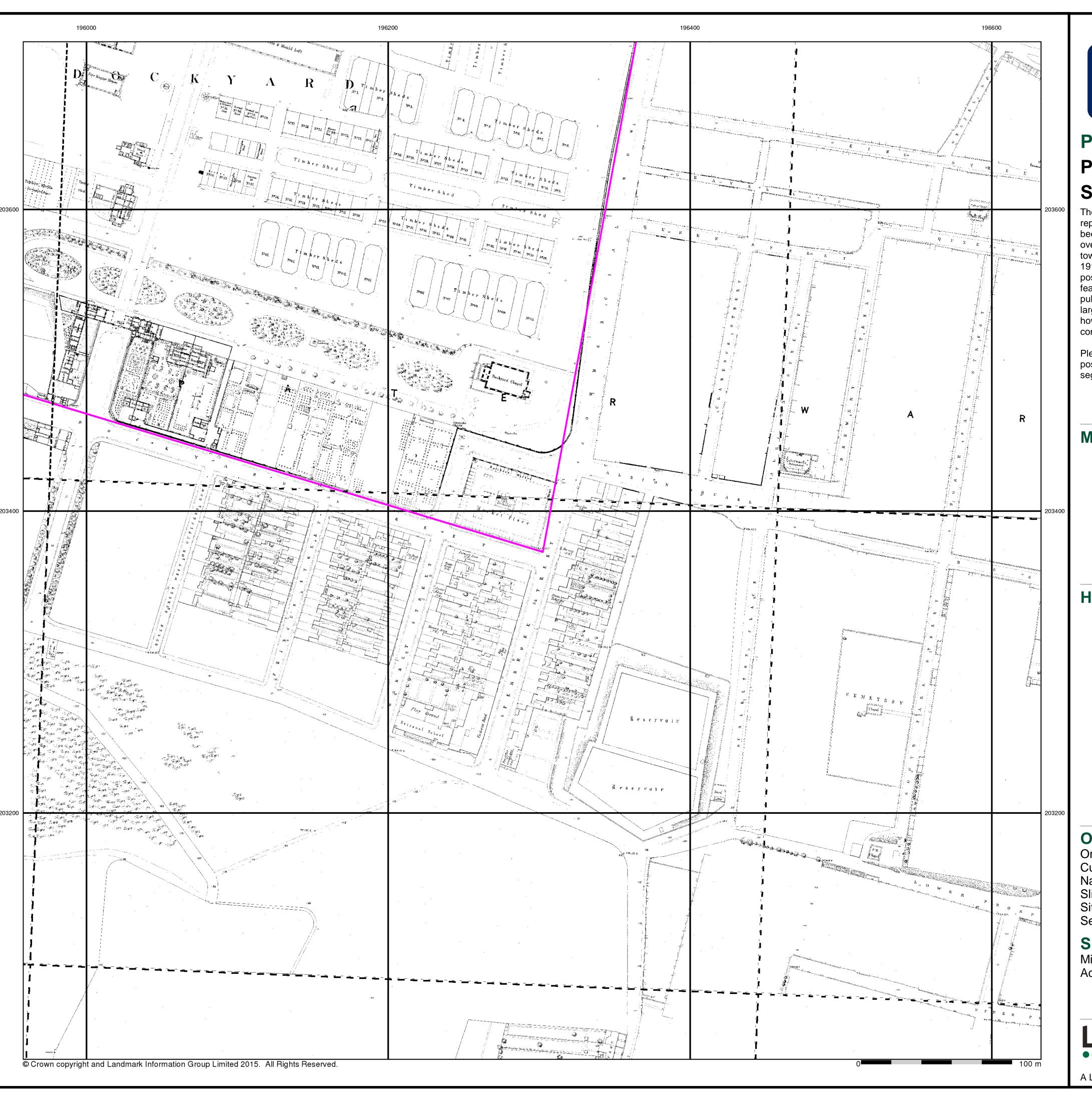
152819812_1_1 JER1262 National Grid Reference: 195690, 203730

36.27

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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Published 1864

Source map scale - 1:500

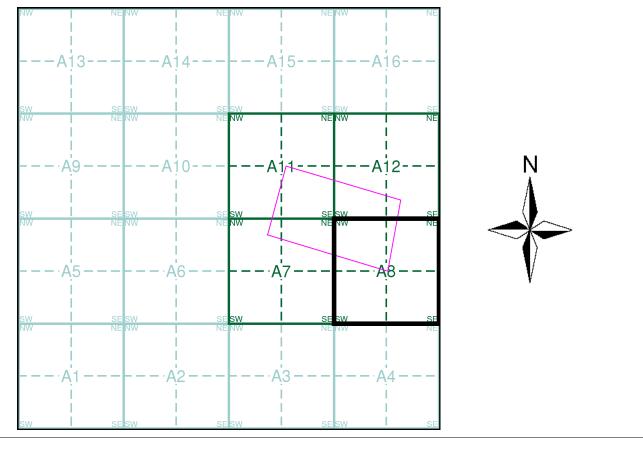
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

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Map Name(s) and Date(s)

1039_08_003 1864	039_08_004 1854	039_08_005
1:500	1:500	J1:500 J
039_08_008 1864 1500	1864	039_08_010 1864
1:500 039 08 013	1:500	1:500
1864 1:500	039_08_014 1864	039_08_015 1864
	1:500	l1:500 J

Historical Town Plan - Segment A8



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730 Slice:

Site Area (Ha):

36.27 Search Buffer (m):

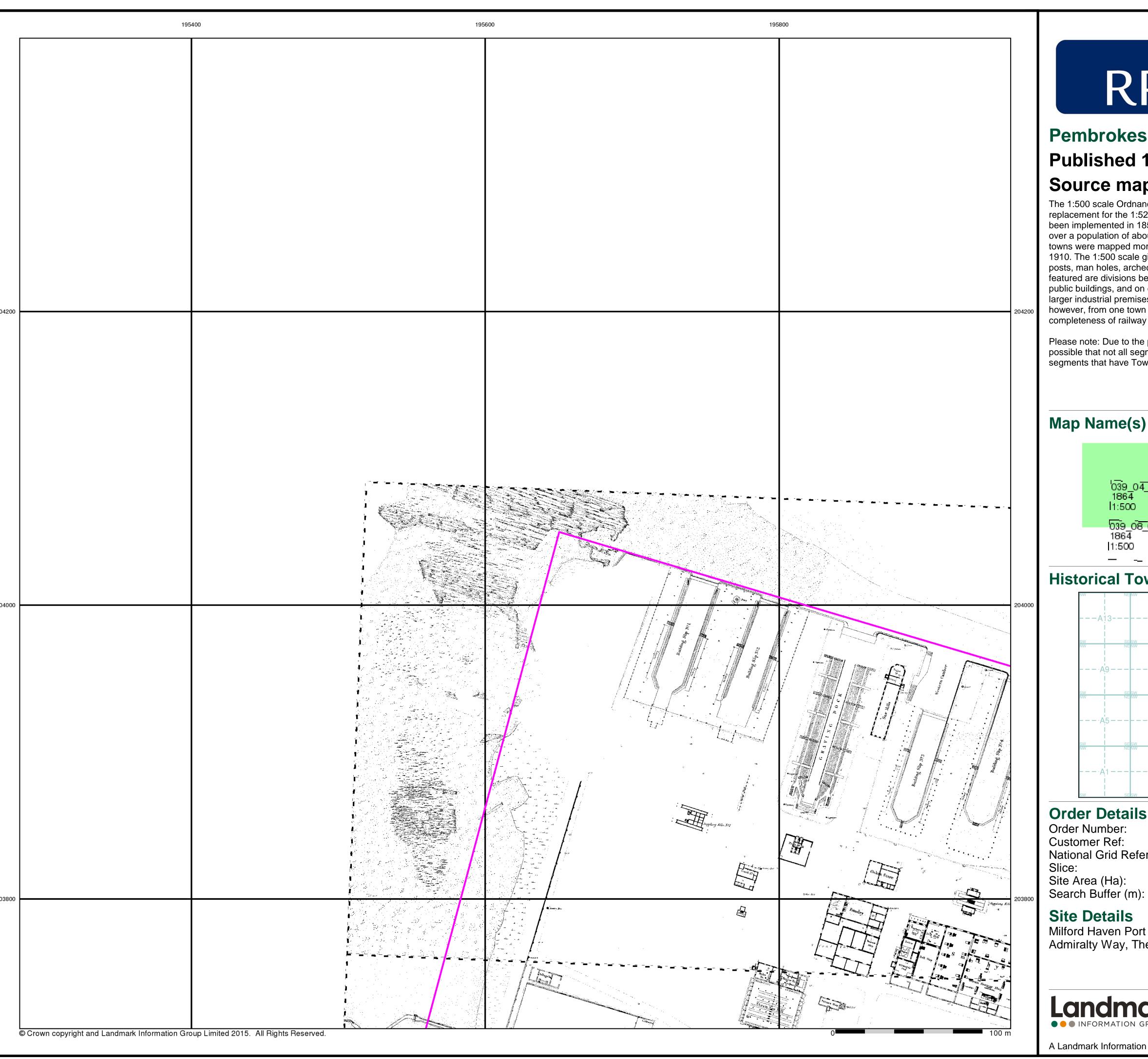
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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A Landmark Information Group Service v50.0 12-Jan-2018 Page 2 of 4





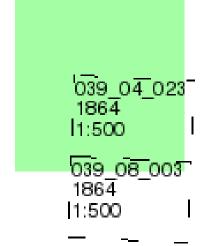
Published 1864

Source map scale - 1:500

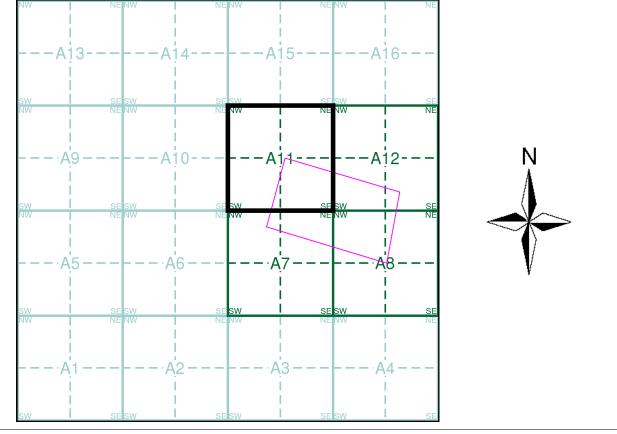
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

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Map Name(s) and Date(s)



Historical Town Plan - Segment A11



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha):

36.27

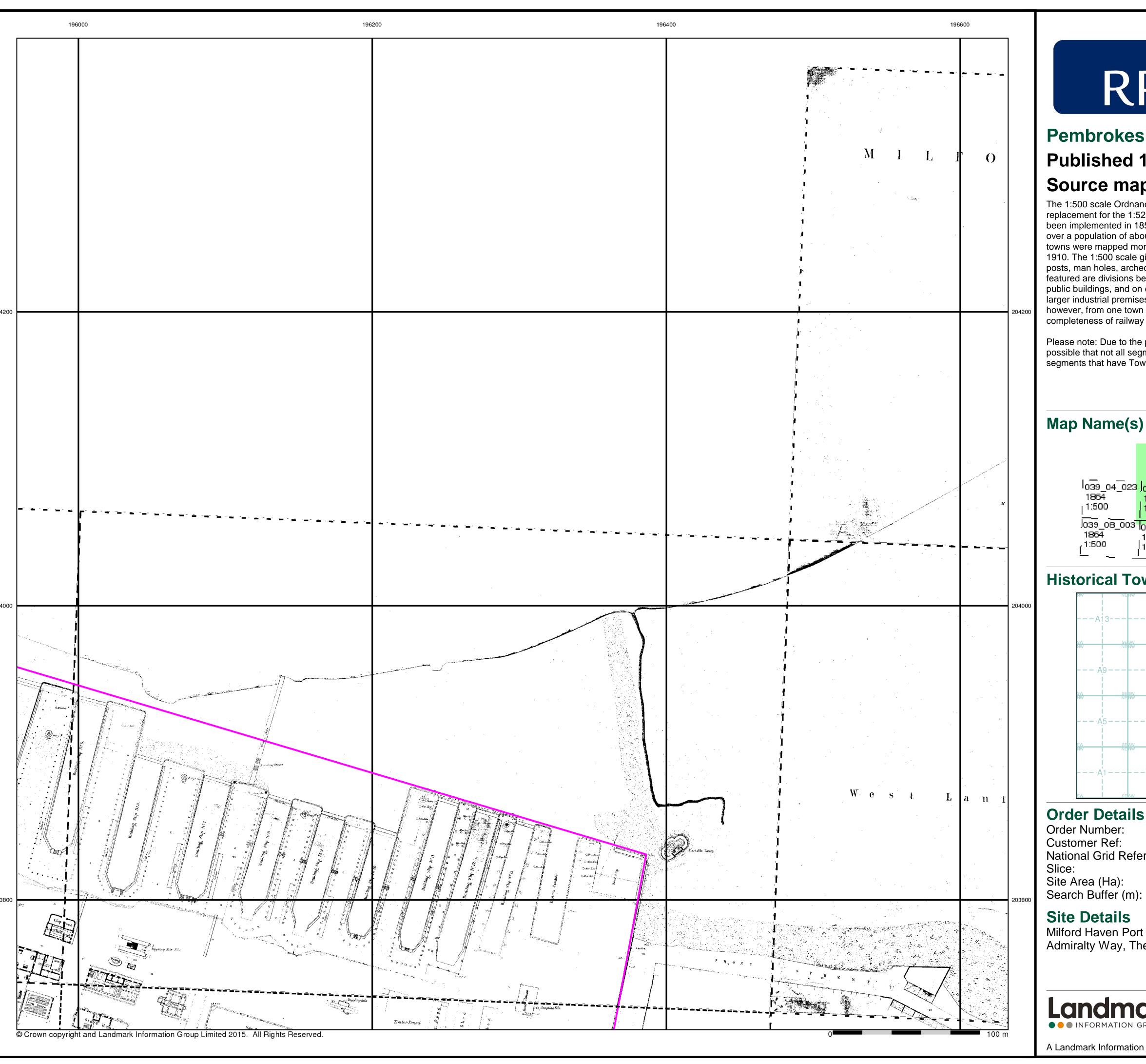
Site Details

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A Landmark Information Group Service v50.0 12-Jan-2018 Page 3 of 4





Published 1864 Source map scale - 1:500

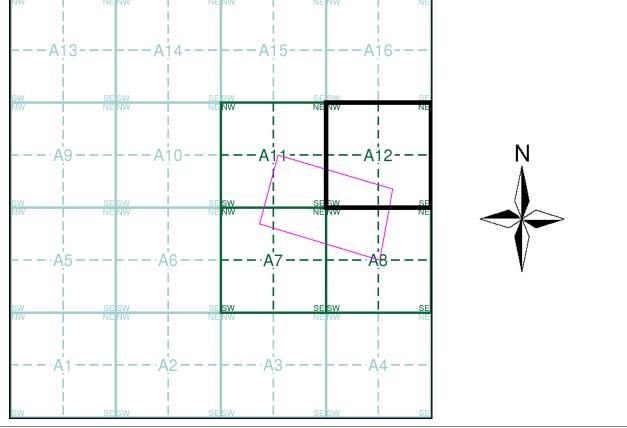
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

		J039_04_020 '
		1864 71:500
l ₀₃₉ ₀₄ ₀₂₃	lo39 04 024	
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1:500	1:500	1:500
039_08_003	039 08 004	039 08 005
1864 .1:500	1864	1864
	1:500	1:500

Historical Town Plan - Segment A12



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha):

36.27

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



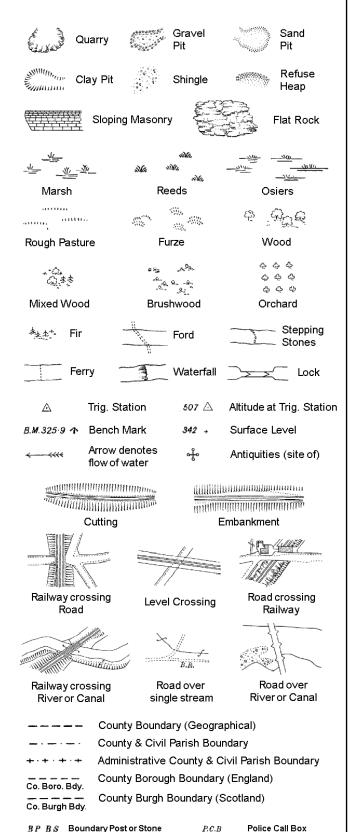
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A Landmark Information Group Service v50.0 12-Jan-2018

Historical Mapping Legends

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



Pump

Sluice

Spring

Trough Well

Signal Post

Telephone Call Box

S.P

Sl.

Tr

B.R.

EP

F.B.

M.S

Bridle Road

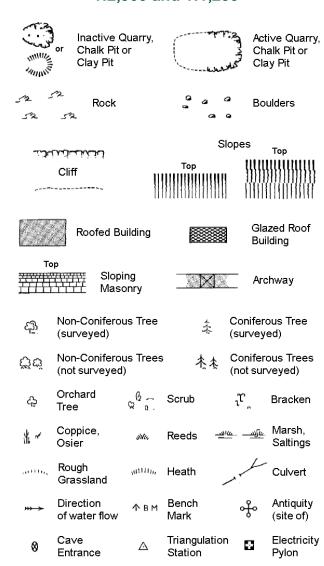
Foot Bridge

Mile Stone

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

Electricity Pylor

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



_ =	<u> </u>	Ele	ctricity transmission line
_		_	County Boundary (Geographical)

County & Civil Parish Boundary Civil Parish Boundary Admin. County or County Bor. Boundary L B Bdy London Borough Boundary Symbol marking point where boundary mereing changes

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

FΒ

Filter Bed

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

Gas Valve Compound

Mile Post or Mile Stone

1:1,250

	لالماليان		Slo	pes	Top
	Cliff))))))))
25 3	Rock		2,5	Rock (scattered)
\triangle_{α}	Boulders		2	Boulde	ers (scattered)
	Positioned	l Boulder		Scree	
ද <u>ව</u>	Non-Conit	erous Tree	*	Conife (surve	erous Tree yed)
స్తోల్త	Non-Conit (not surve	erous Trees yed)	杰杰		erous Trees urveyed)
දා	Orchard Tree	ç ⁸ û. Sc	rub	'n,	Bracken
* ~	Coppice, Osier	www. Re	eds 📲	<u>u —n</u>	Marsh, Saltings
acting.	Rough Grassland	_{яння} , Не	eath	1	Culvert
>>> →	Direction of water fl		angulation ation	નુ	Antiquity (site of)
E_TL	Electric	city Transmissio	n Line	\boxtimes	Electricity Pylon
/ / / BM	231.6úm	Bench Mark			ings with ing Seed
	Roof	ed Building		51	Glazed Roof Building
		Ci∨il parish/co	mmunity b	oundar	ту
		District bound	ary		
_ •		County bounda	ary		
¢	,	Boundary post	/stone		
۶		Boundary mer always appear of three)			
Bks	Barracks		Р	Pillar. I	Pole or Post
Bty	Battery		PO	Post C	
Cemy	Cemetery		PC	Public	Convenience
Chy	Chimney		Pp	Pump	
Cis	Cistern		Ppg Sta	Pumpi	ng Station
Dismtd F	-	itled Railway	PW		ofWorship
El Gen S	Station		Sewage P _l	_	Sewage Pumping Station
EIP		Pole, Pillar	SB, S Br	Signal	Box or Bridge
El Sub S	ta Electricity	Sub Station	SP, SL	Signa	Post or Light

Spr

Tk

Tr

Wd Pp

Wks

Spring

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

Tank or Track

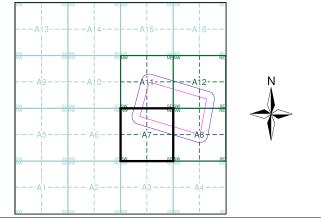
Works (building or area)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1866	2
Pembrokeshire	1:2,500	1908	3
Ordnance Survey Plan	1:2,500	1967	4
Additional SIMs	1:2,500	1967	5
Ordnance Survey Plan	1:1,250	1989	(
Large-Scale National Grid Data	1:1,250	1994	7
Large-Scale National Grid Data	1:1,250	1995	8
Large-Scale National Grid Data	1:1,250	1996	
Historical Aerial Photography	1:2,500	2003	10

Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730 Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

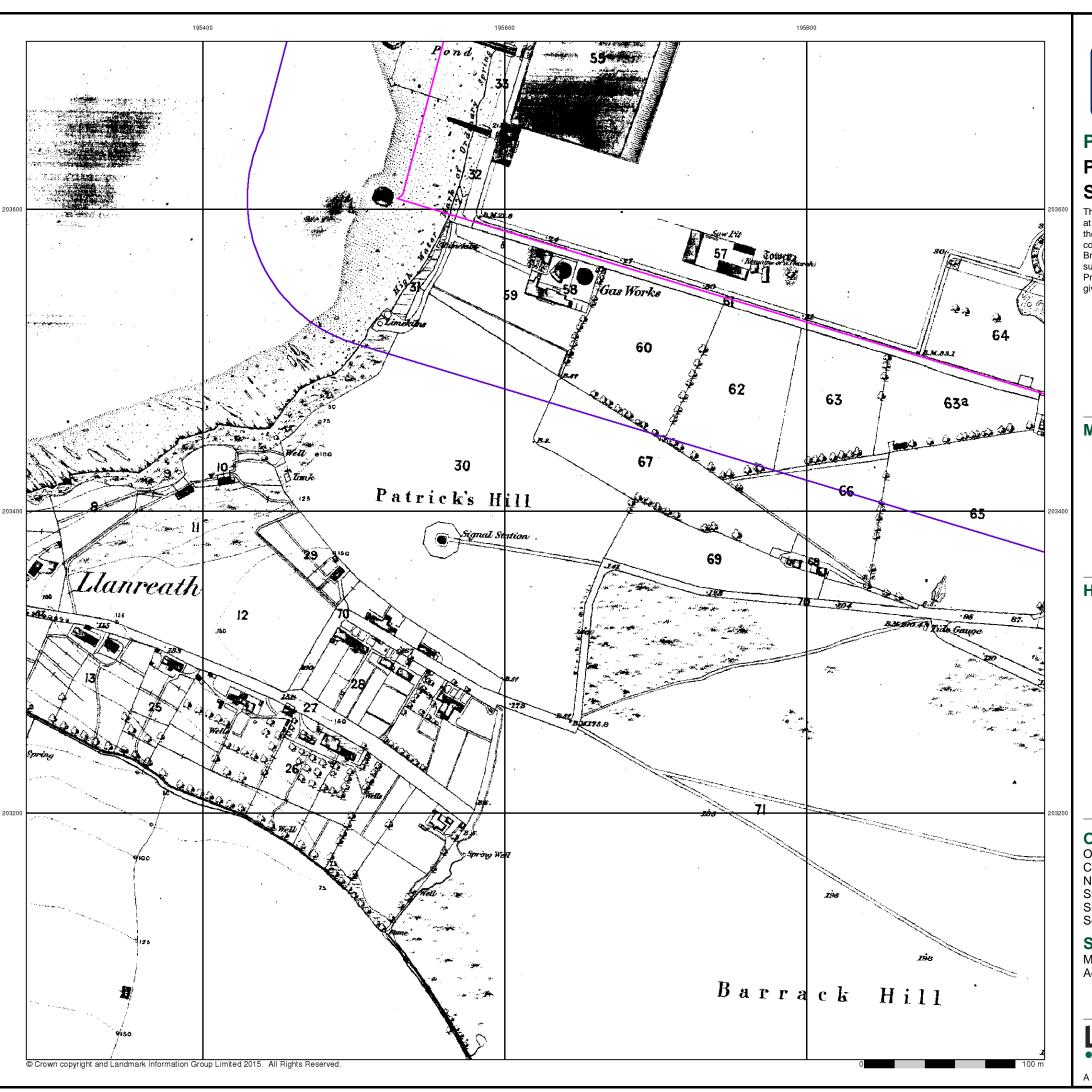
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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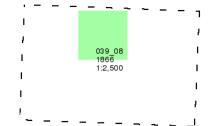


Published 1866

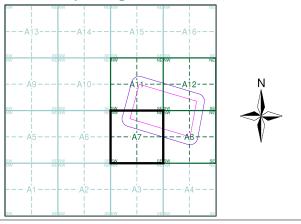
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

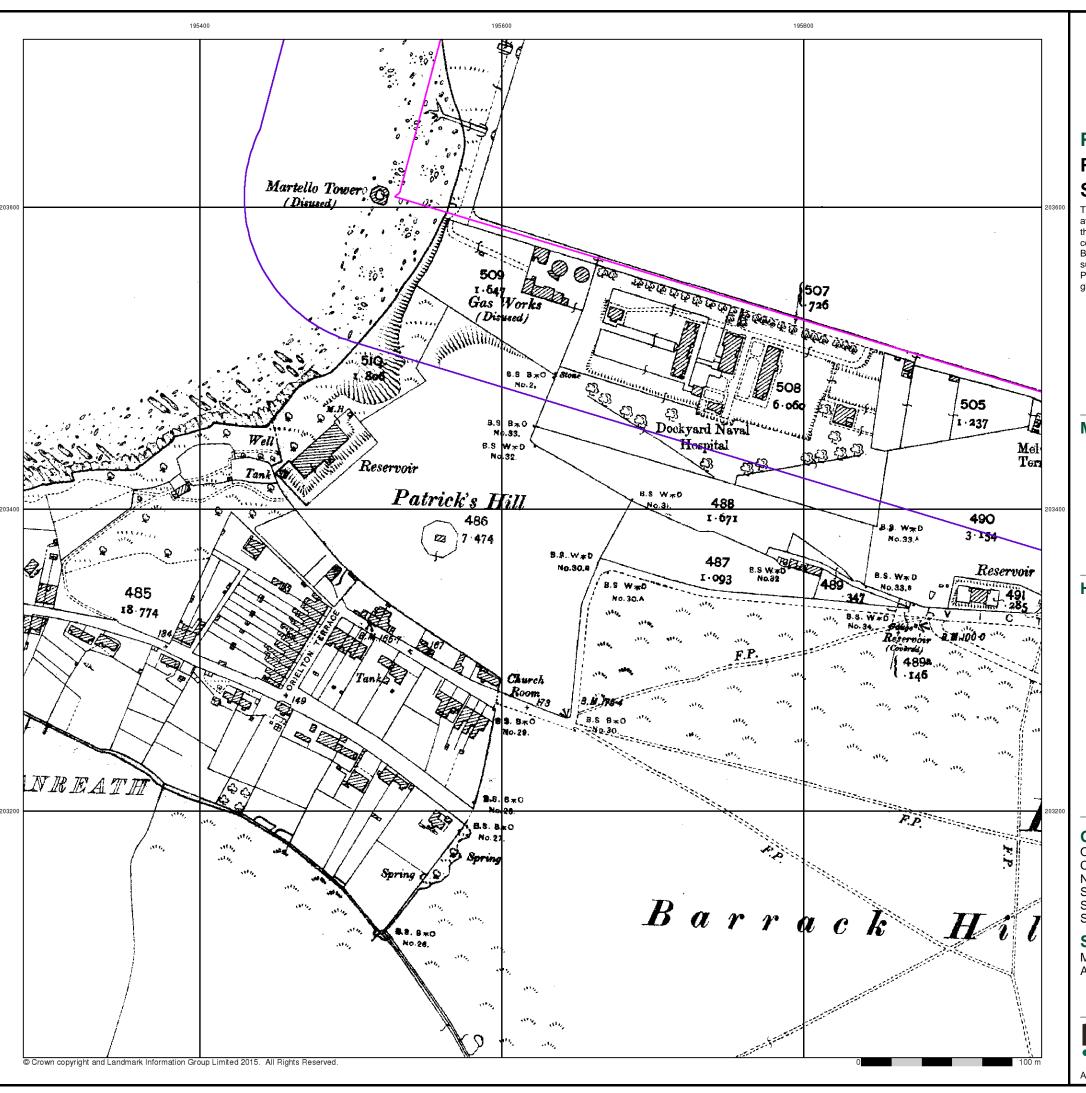
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 2 of 10



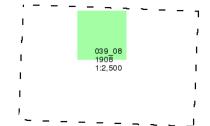


Published 1908

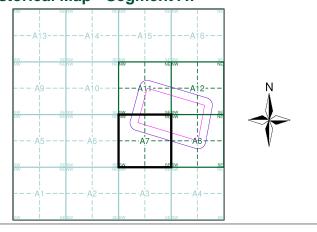
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

Slice: Site Area (H

Site Area (Ha): 36.27 Search Buffer (m): 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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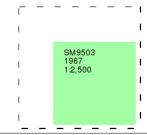
Ordnance Survey Plan

Published 1967

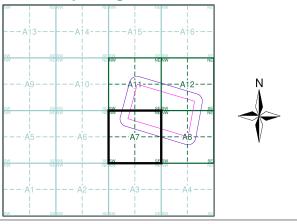
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27

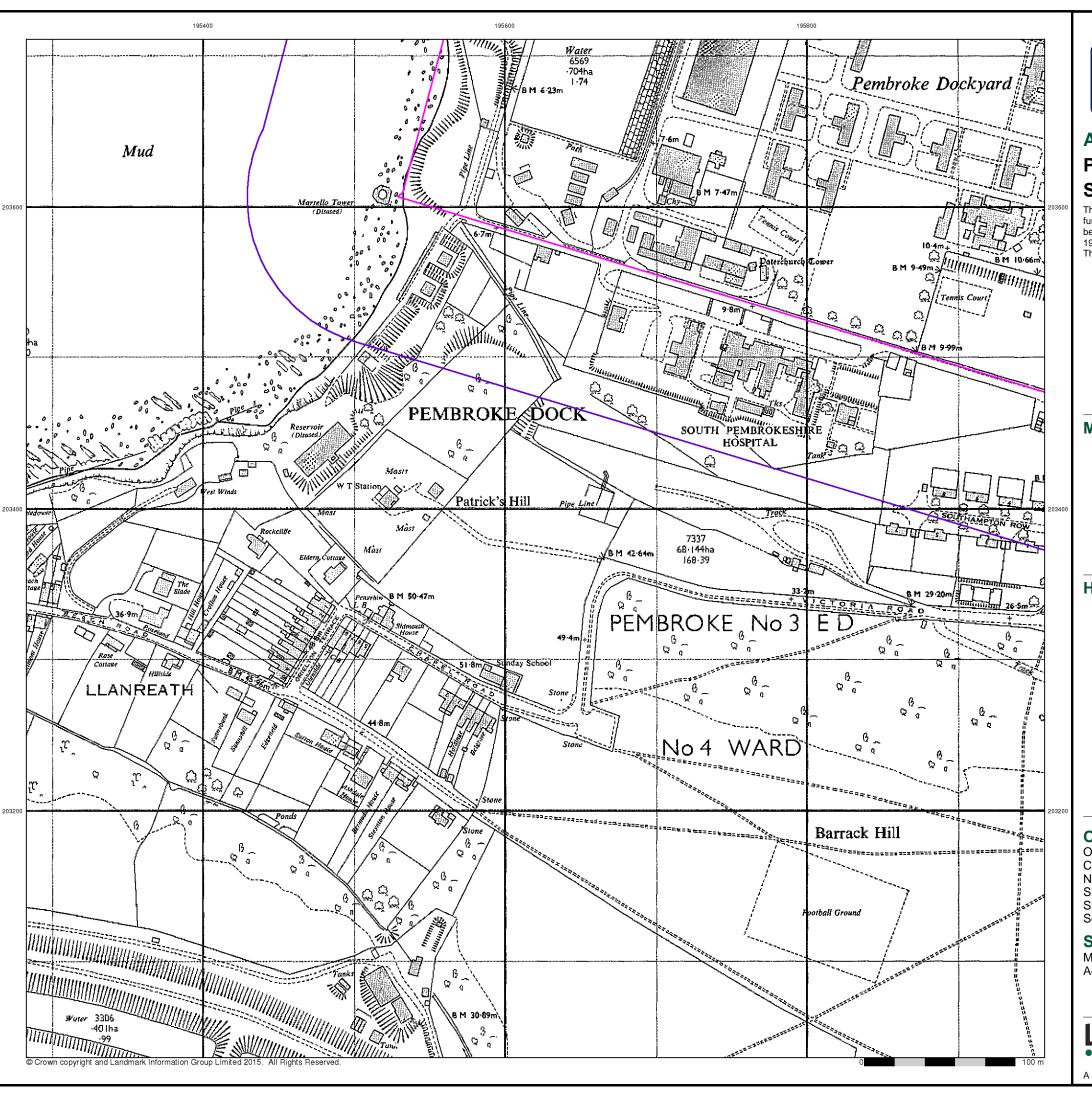
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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Additional SIMs

Published 1967

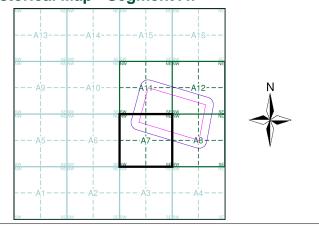
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27

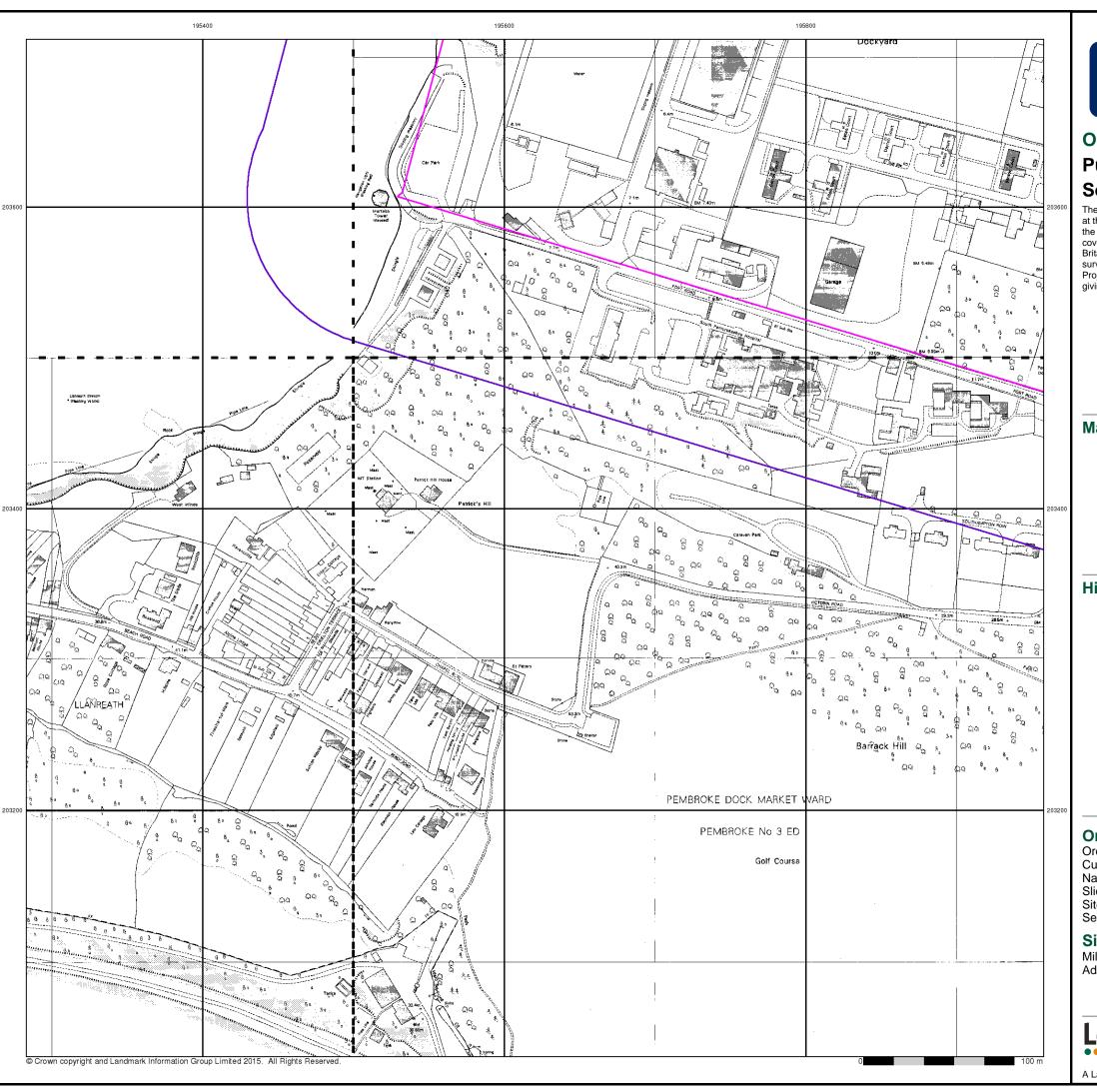
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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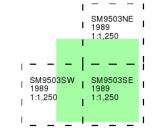
Ordnance Survey Plan

Published 1989

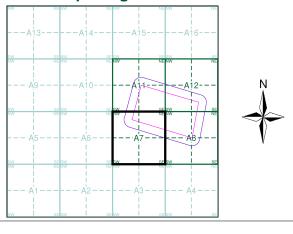
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

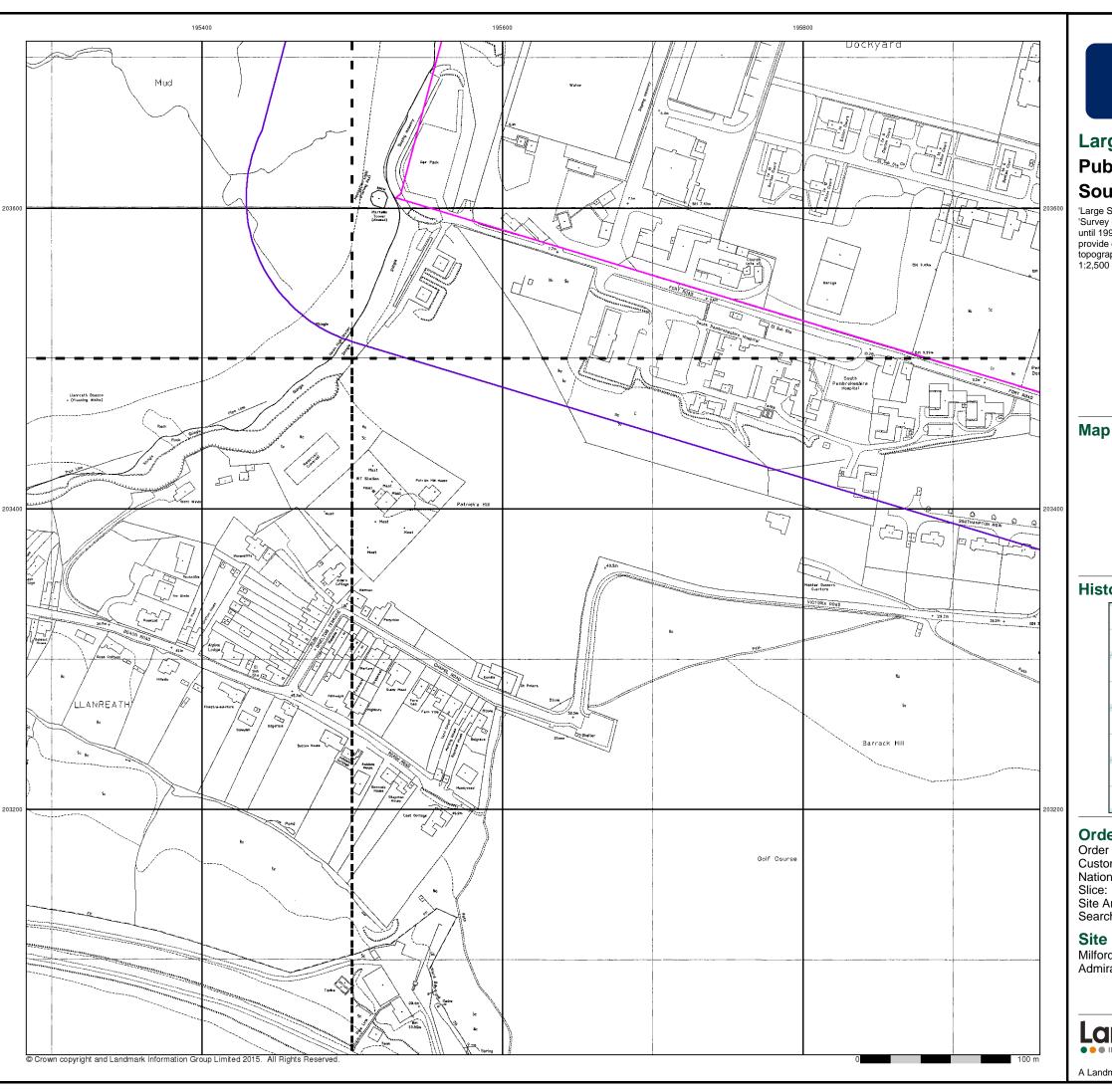
Site Details

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Large-Scale National Grid Data

Published 1994

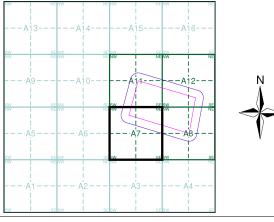
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

1	SM950 1994 1:1,250		SM9503NE 1994 1:1,250	I I
- 1	,	ı	·	ı
	SM950 1994 1:1,250		SM9503SE 1994 1:1,250	-

Historical Map - Segment A7



Order Details

152819812_1_1 JER1262 Order Number: Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 100

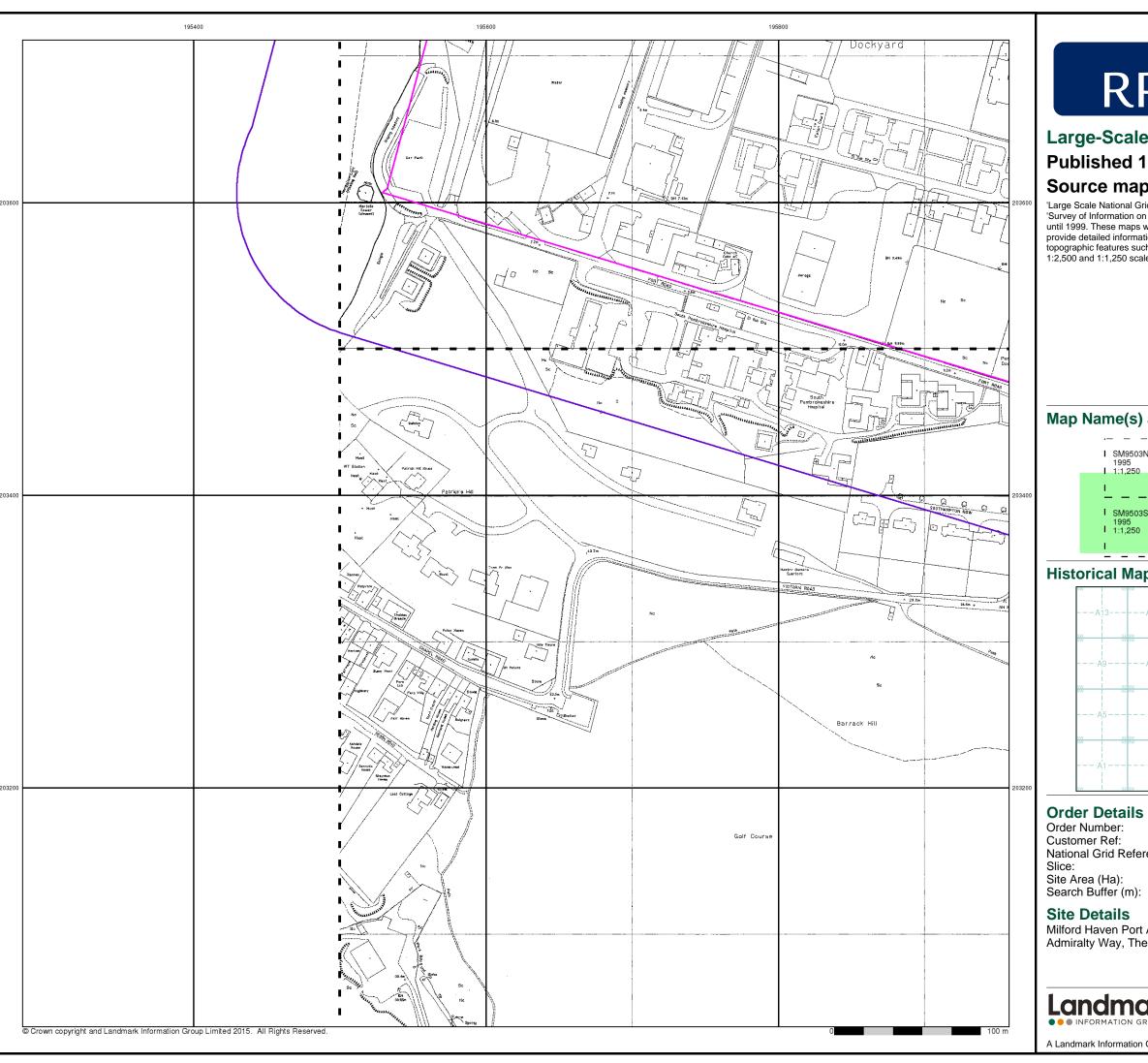
Site Details

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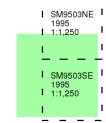
Large-Scale National Grid Data

Published 1995

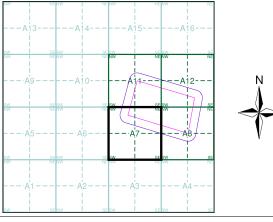
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A7



152819812_1_1 JER1262 National Grid Reference: 195690, 203730

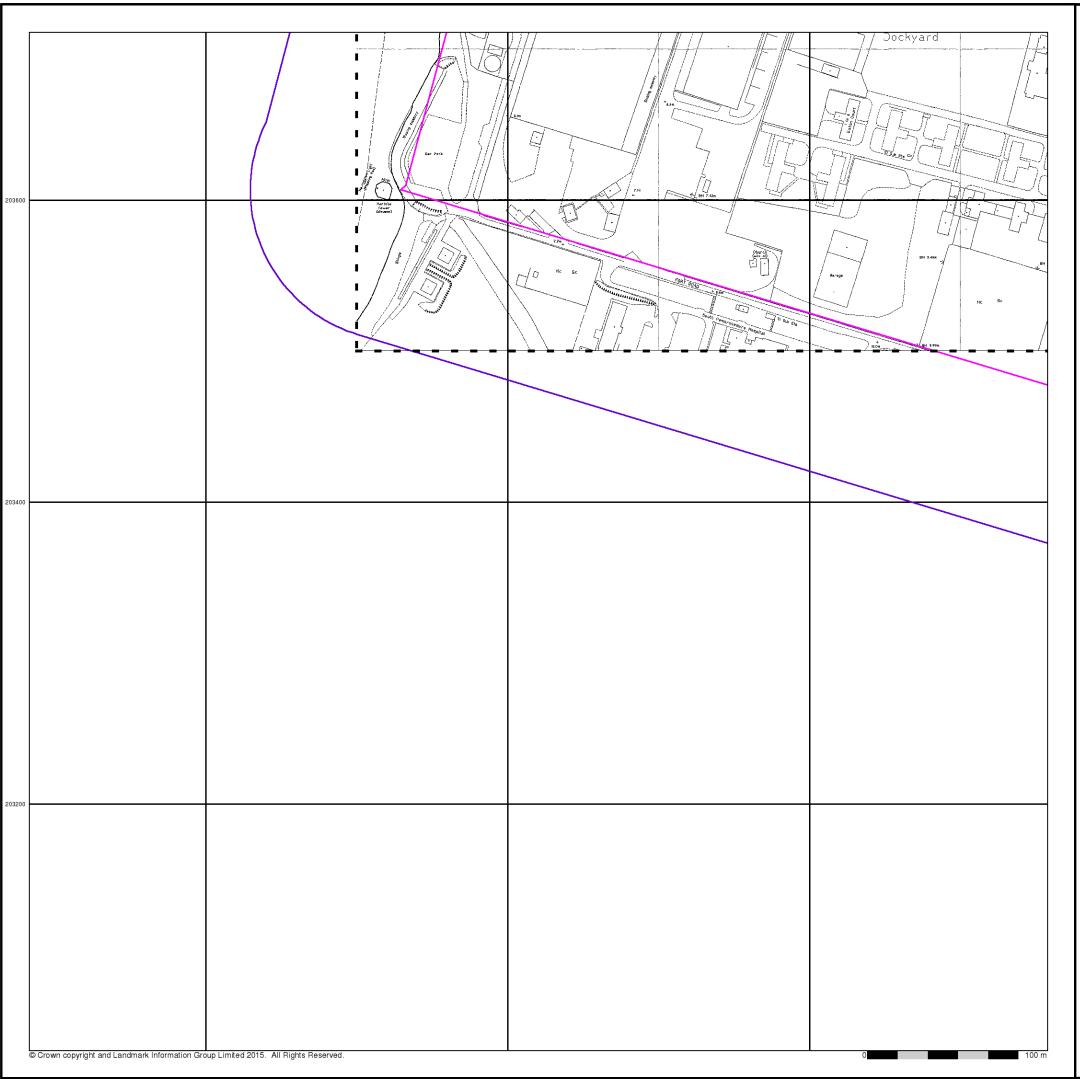
36.27 100

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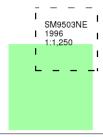
Large-Scale National Grid Data

Published 1996

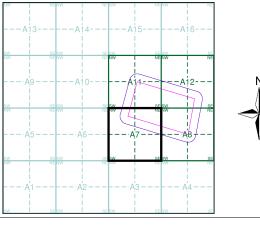
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A7





Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Α Site Area (Ha): Search Buffer (m): 36.27 100

Site Details

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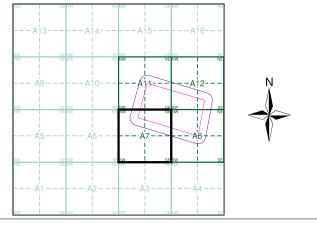




Historical Aerial Photography Published 2003

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

Historical Aerial Photography - Segment A7



Order Details

 Order Number:
 152819812_1_1

 Customer Ref:
 JER1262

 National Grid Reference:
 195690, 203730

Slice: A
Site Area (Ha): 36.27
Search Buffer (m): 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

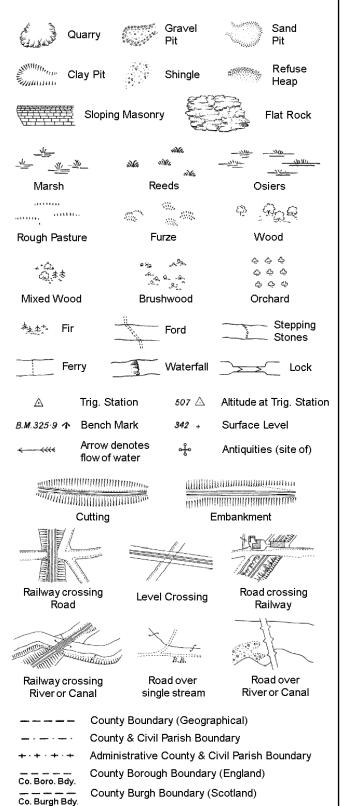
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Historical Mapping Legends

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



B.R.

EP

F.B.

M.S

Bridle Road

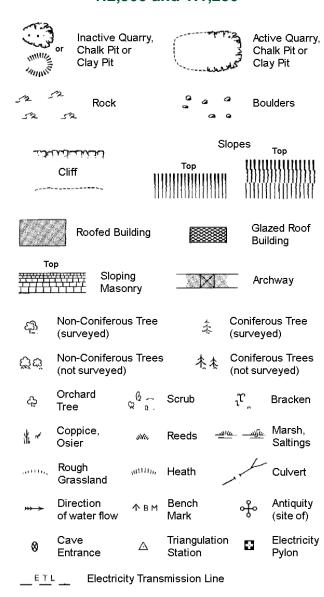
Foot Bridge

Mile Stone

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

Electricity Pylor

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



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

County Boundary (Geographical) County & Civil Parish Boundary

Admin. County or County Bor. Boundary

Civil Parish Boundary

London Borough Boundary

L B Bdy

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

Trough

Well

S.P

Sl.

Tr:

1:1,250

***************************************			Slopes Top			
			Тор			
523	Rock		52	Rock (sc	attered)	
	Boulders		Δ	Boulders	(scattered)	
	Positioned	Boulder		Scree		
Ci3	Non-Conif (surveyed	erous Tree)	*	Conifero (surveye		
C) C 1	Non-Conif (not sur∨e	erous Trees yed)	* **	Conifero (not surv	us Trees eyed)	
	Orchard Tree	Q a.	Scrub	r,	Bracken	
	Coppice, Osier	áNu,	Reeds 🛥	<u>।ए —ग्रींए</u>	Marsh, Saltings	
(********	Rough Grassland	unn_{b}	Heath	1	Culvert	
***	Direction of water flo	Δ	Triangulation Station) क्	Antiquity (site of)	
ETL	Electric	ity Transmis	ssion Line	\boxtimes	Electricity Pylon	
/ ₹/ BM :	231.60m E	Bench Mark		Building Building		
	Roofe	ed Building		×ı	azed Roof ilding	
		•	/community b	oundary		
		District bou	ındary			
- •		County bou	ındary			
٥		Boundary p	ost/stone			
A		-	nereing symb ear in oppose	,		
Bks	Barracks		Р	Pillar, Pol	e or Post	
Bty	Battery		PO	Post Offic		
Cemy	Cemetery		PC		nvenience	
Chy Cis	Chimney Cistern		Pp Ppg Sta	Pump Pumping	Station	
Dismtd Rly		tled Railway	PW	Place of V		
El Gen Sta		ity Generating		pg Sta Se	•	
EIP	Electricity	Pole, Pillar	SB, S Br	Signal Bo	x or Bridge	
El Sub Sta	Electricity	Sub Station	SP, SL	Signal Po	st or Light	
FB	Filter Bed		Spr	Spring		
Fn / D Fn	Fountain /	Drinking Ftn.	Tk	Tank or T	rack	
00	016-1	O	T.,	Tuescale		

Gas Valve Compound

Mile Post or Mile Stone

Gas Governer

Guide Post

Manhole

Tr

Wd Pp

Wks

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

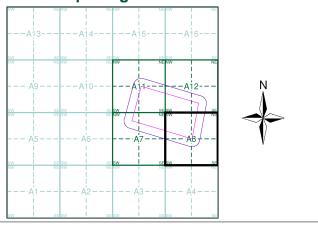
Works (building or area)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1866	2
Pembrokeshire	1:2,500	1908	3
Ordnance Survey Plan	1:2,500	1967 - 1968	4
Additional SIMs	1:2,500	1967	5
Ordnance Survey Plan	1:2,500	1974	6
Ordnance Survey Plan	1:1,250	1989	7
Additional SIMs	1:1,250	1990	8
Large-Scale National Grid Data	1:1,250	1994	ç
Large-Scale National Grid Data	1:1,250	1994 - 1995	10
Large-Scale National Grid Data	1:1,250	1996	11
Large-Scale National Grid Data	1:1,250	1996	12
Historical Aerial Photography	1:2,500	2003	13

Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730 Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

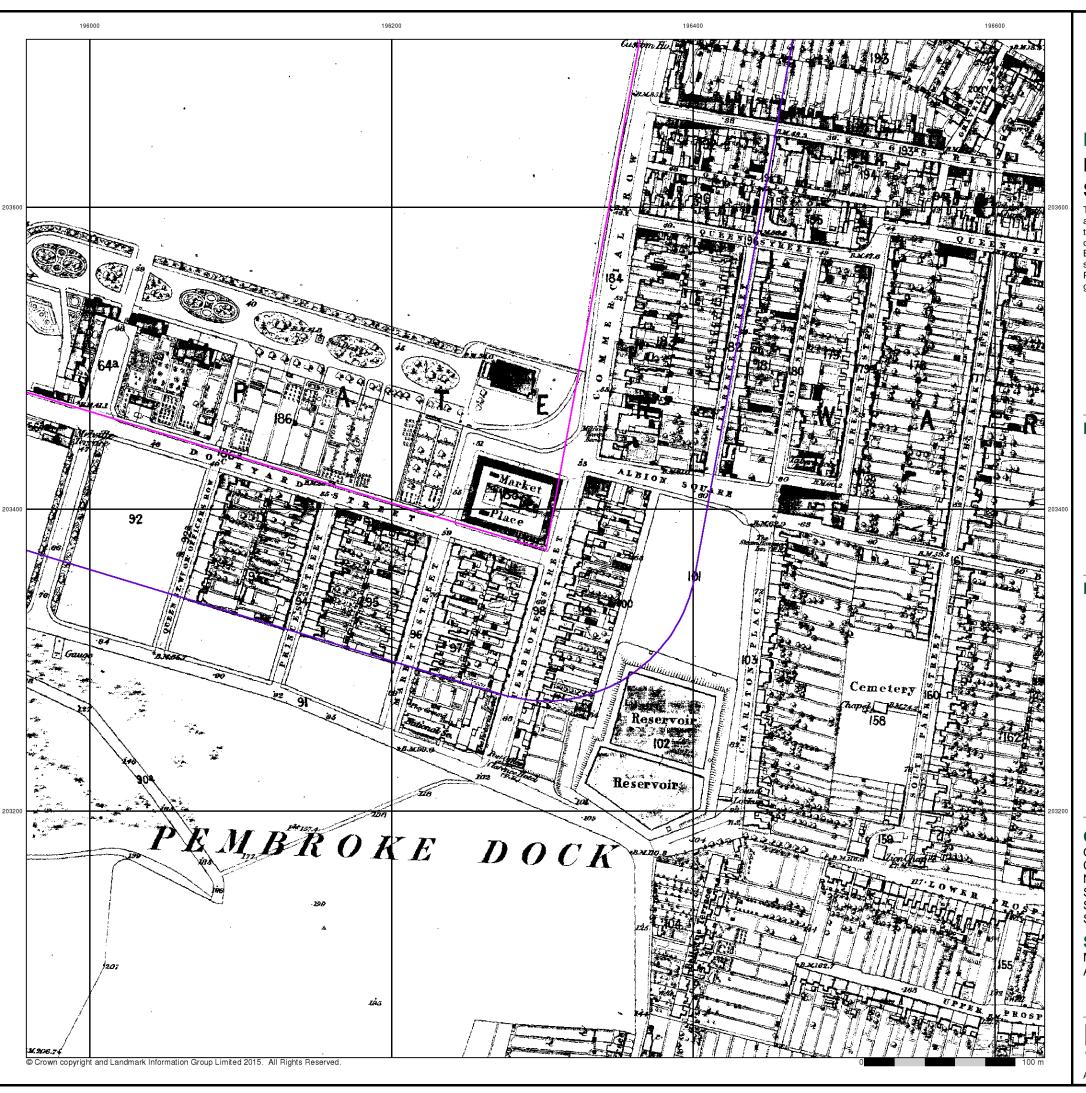
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 1 of 13



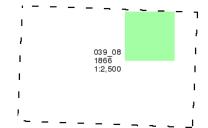


Published 1866

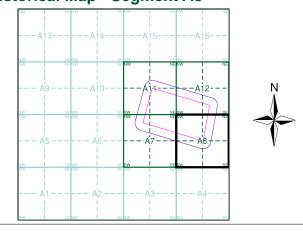
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

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

36.27 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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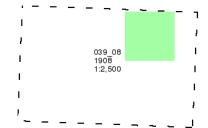


Published 1908

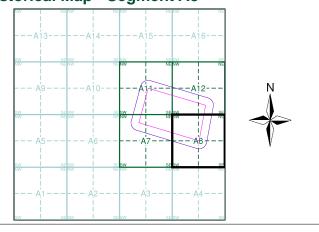
Source map scale - 1:2,500

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Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

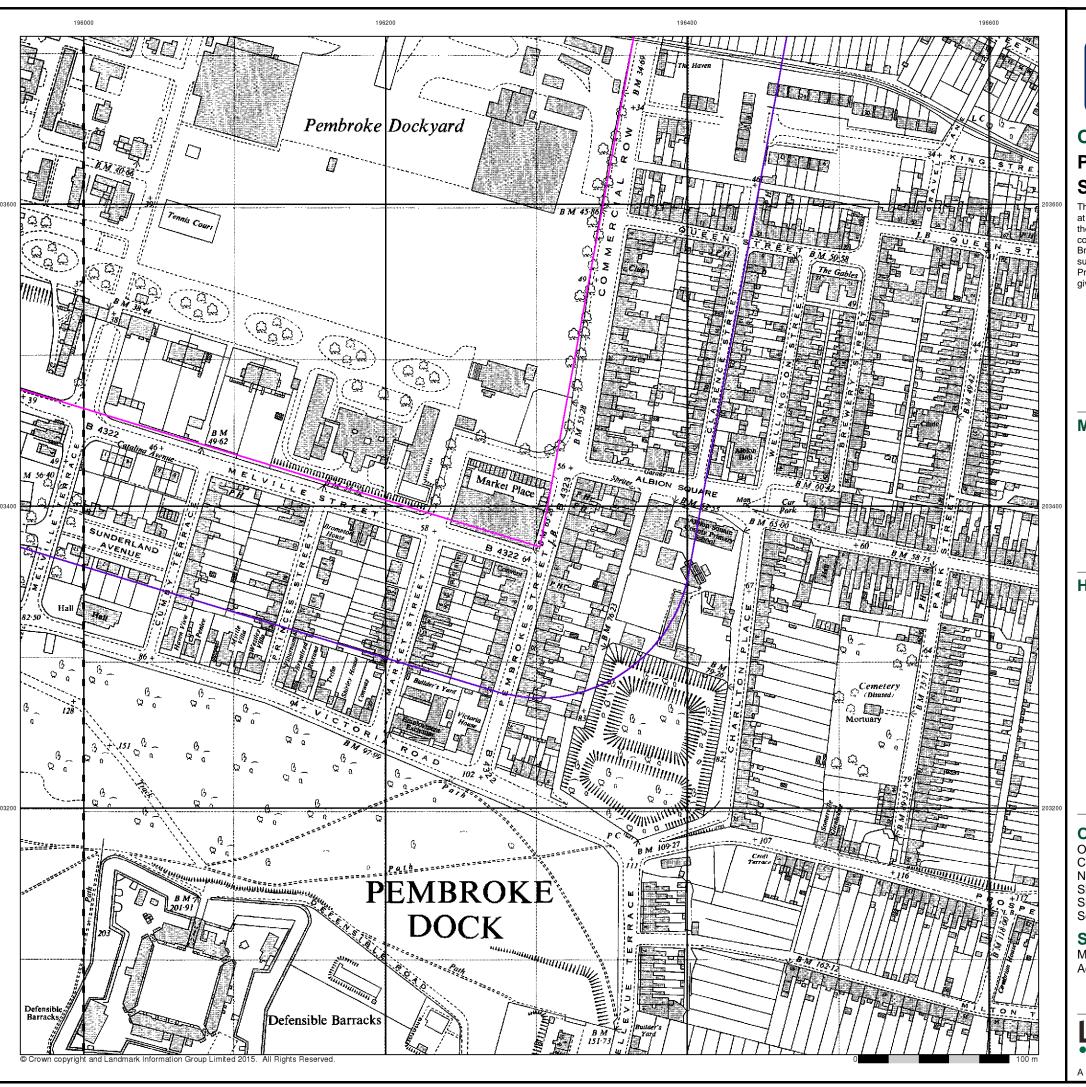
Site Details

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Landmark

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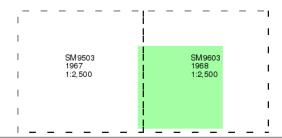


Ordnance Survey Plan

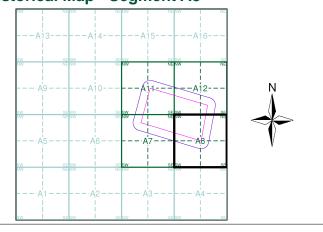
Published 1967 - 1968 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 100

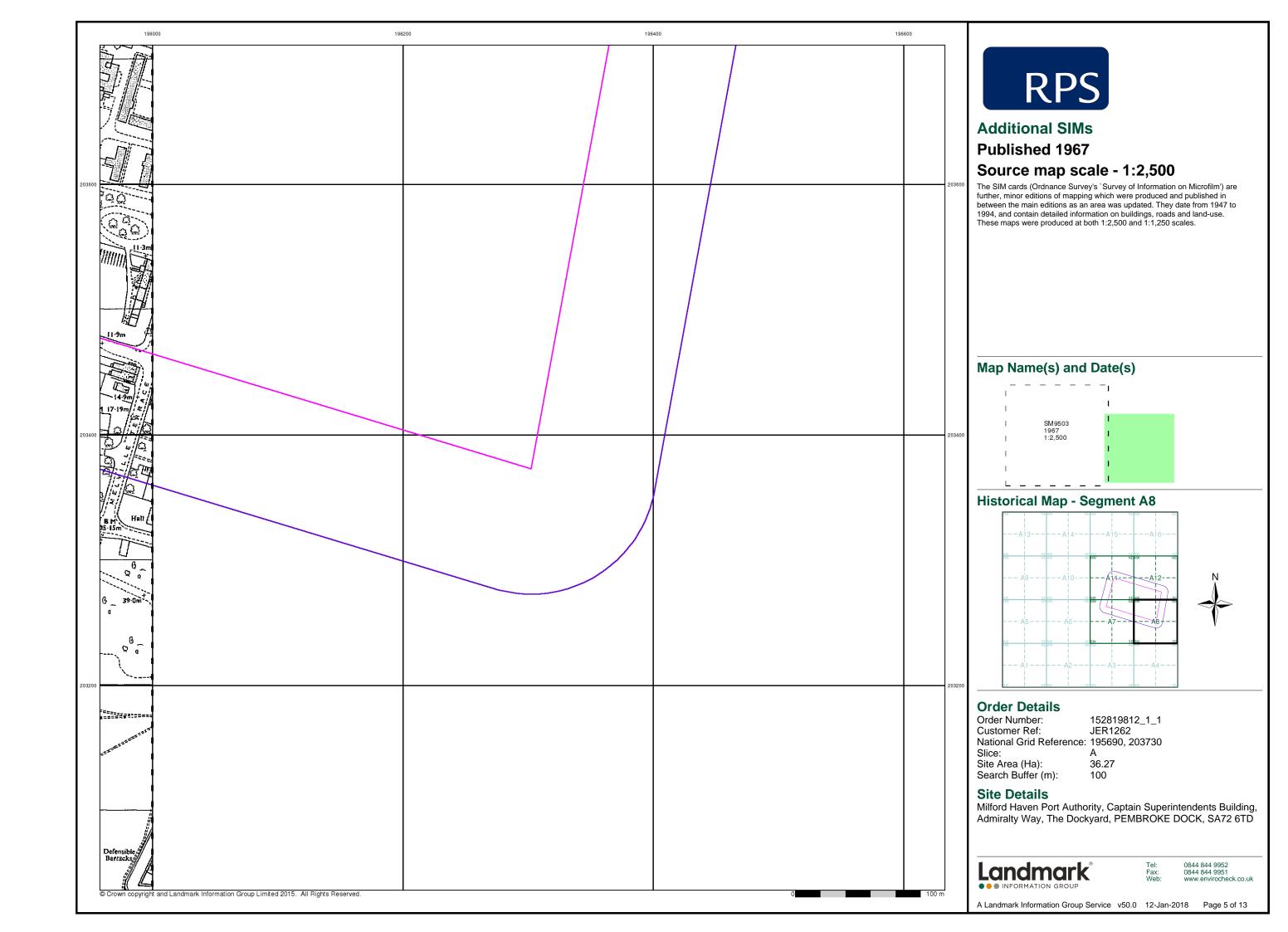
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 4 of 13







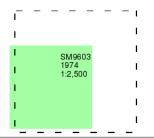
Ordnance Survey Plan

Published 1974

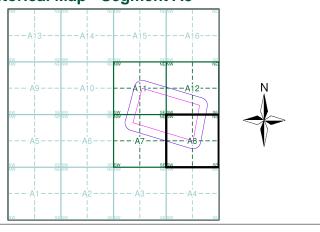
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 6 of 13



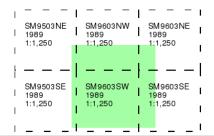


Ordnance Survey Plan Published 1989

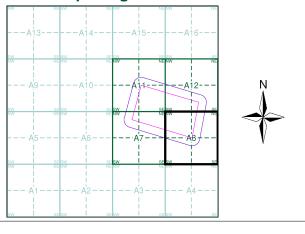
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

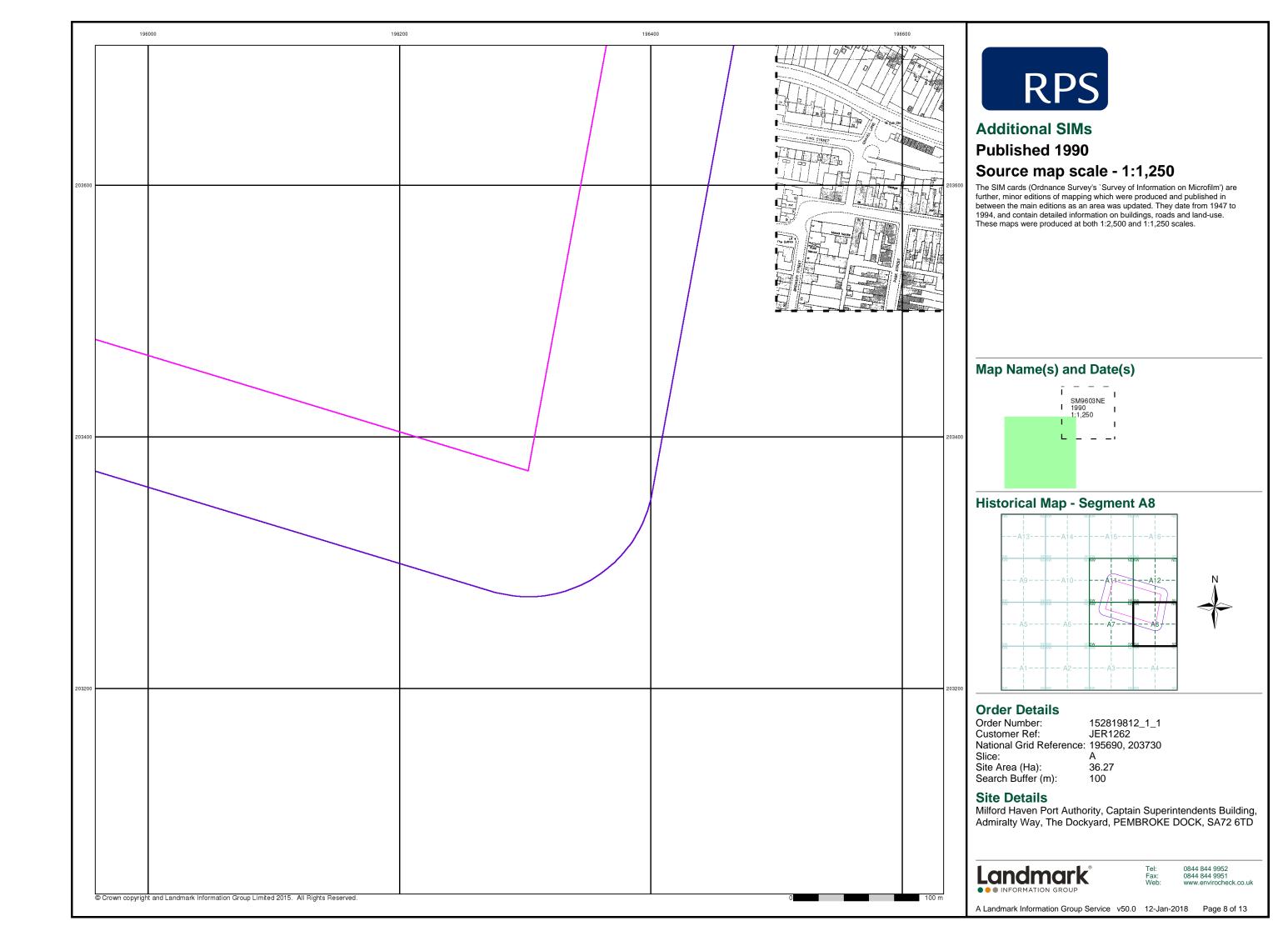
Site Details

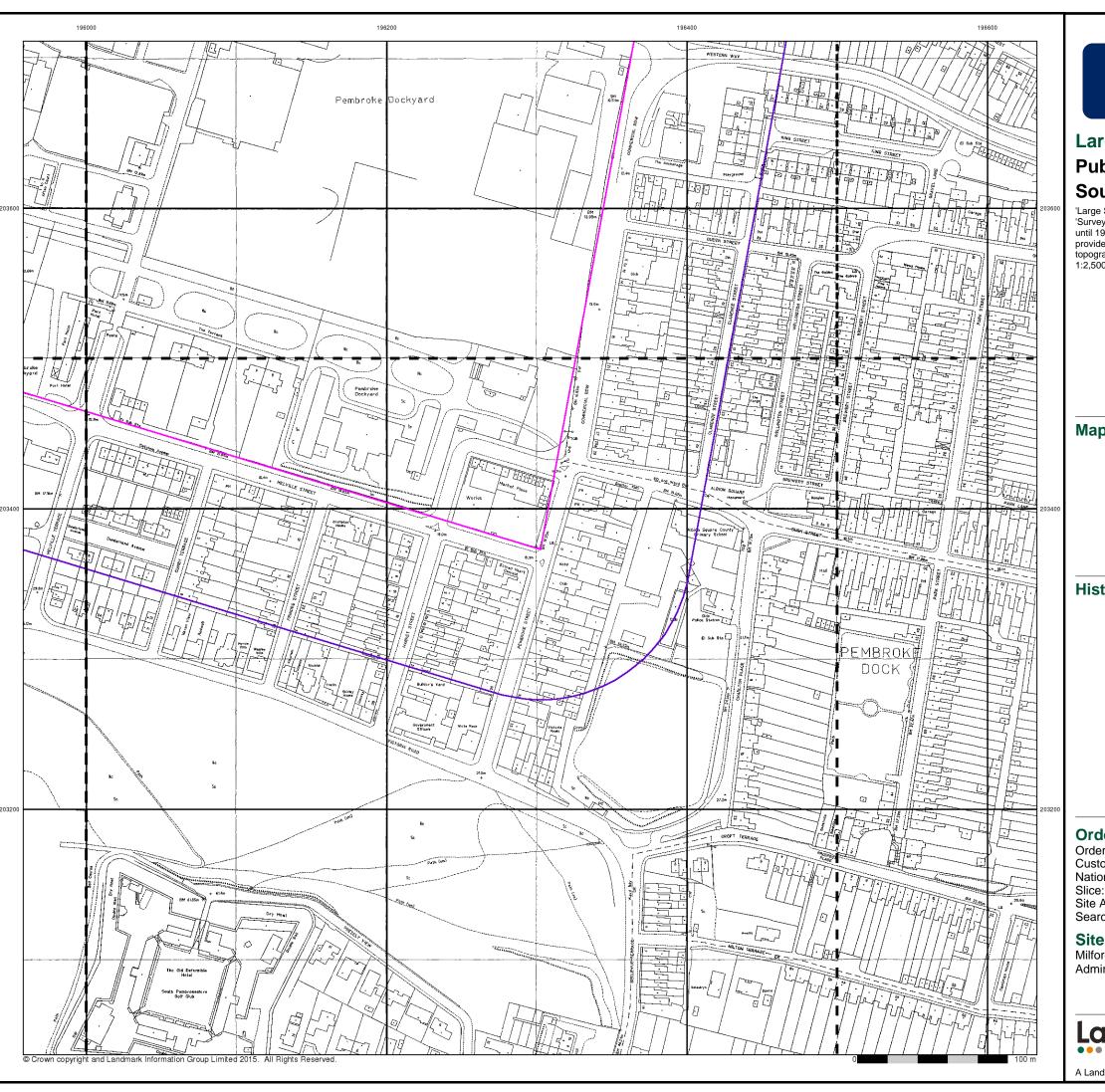
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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A Landmark Information Group Service v50.0 12-Jan-2018 Page 7 of 13







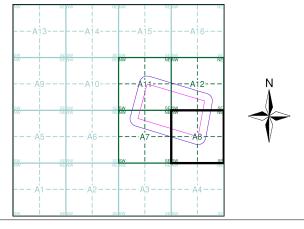
Large-Scale National Grid Data Published 1994 Source map scale - 1:1,250

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

Map Name(s) and Date(s)

 	SM9503NE 1994 1:1,250	 	SM9603NW 1994 1:1,250	. 19	M9603NE 994 1,250	1 1
_		1		l_		ı
 	SM9503SE 1994 1:1,250	1 1 1	SM9603SW 1994 1:1,250	. 19	M9603SE 994 1,250	

Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 100

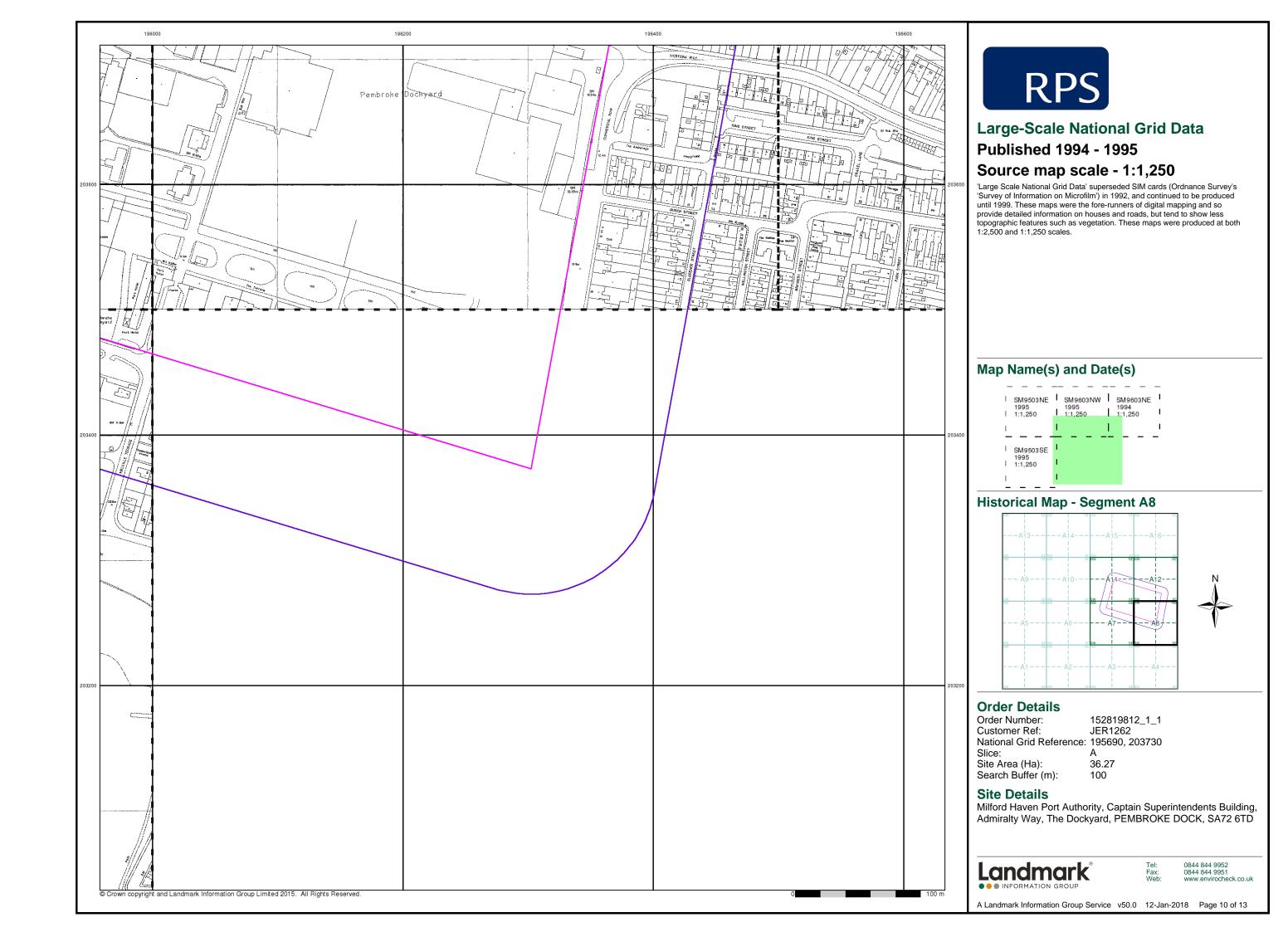
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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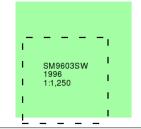
Large-Scale National Grid Data

Published 1996

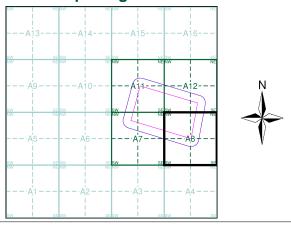
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

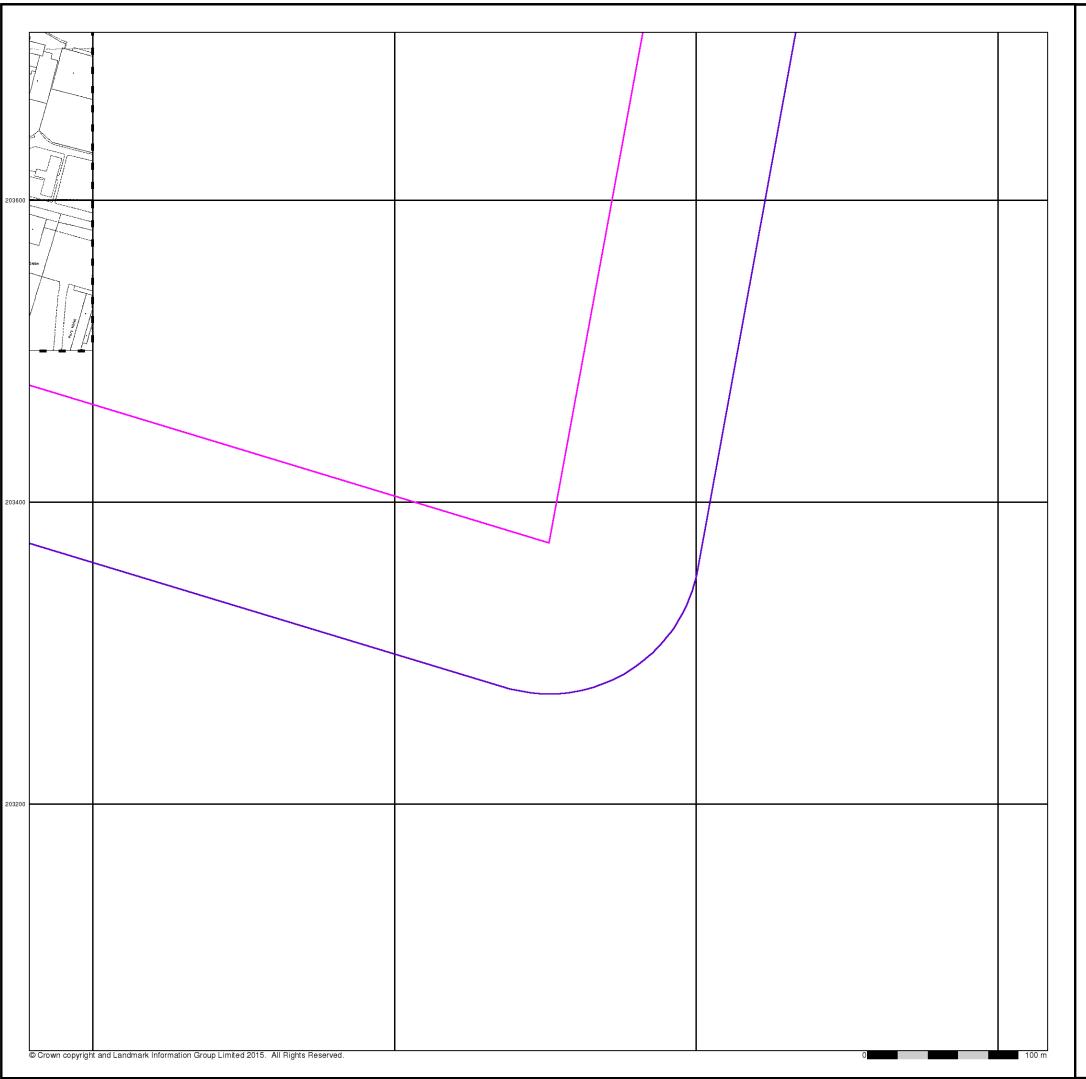
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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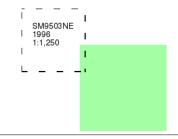
Large-Scale National Grid Data

Published 1996

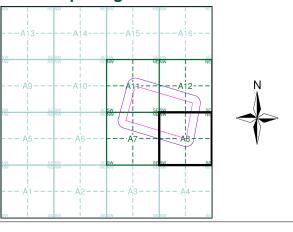
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Α 36.27 Site Area (Ha): Search Buffer (m): 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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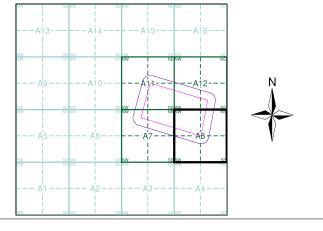




Historical Aerial Photography Published 2003

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

Historical Aerial Photography - Segment A8



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

Slice: Site Area (Ha): Search Buffer (m): 36.27 100

Site DetailsMilford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

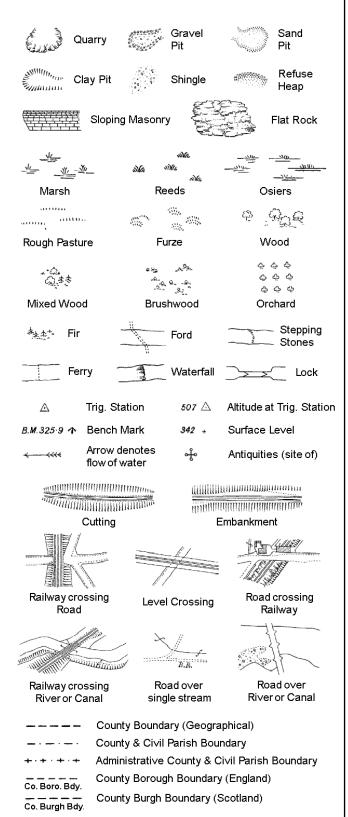
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Historical Mapping Legends

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



B.R.

EP

F.B.

M.S

Bridle Road

Foot Bridge

Mile Stone

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

Electricity Pylor

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

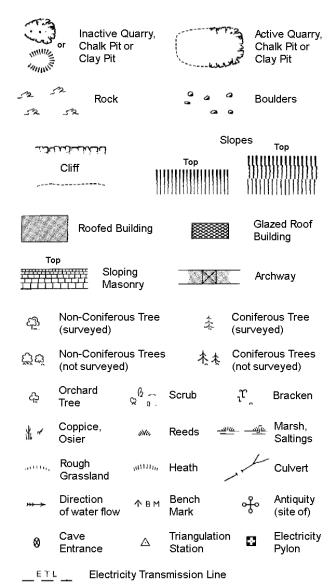
Trough Well

S.P

Sl.

Tr:

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



County Boundary (Geographical)

County & Civil Parish Boundary Civil Parish Boundary Admin. County or County Bor. Boundary L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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

1:1,250

			Slo	opes	Тор
	لكناك		Тор	111111	11111111111
	Cliff	!!!!		_]]]]]	!!!!! !!!!
		1111	111111111111111111111111111111111111111		[[]]]]]]]]
523	Rock		7,5	Rock (so	cattered)
$\triangle_{\underline{a}}$	Boulders		<i>D</i>	Boulders	s (scattered)
\triangle	Positioned	Boulder		Scree	
<u>ක</u> ු	Non-Conif (surveyed	erous Tree)	李	Conifero	ous Tree ed)
ਨੁੱਖ	Non-Conif (not surve	erous Trees yed)	* **	Conifero (not sur	ous Trees veyed)
දා	Orchard Tree	Q 0.	Scrub	'n,	Bracken
* ~	Coppice, Osier	siHte	Reeds 🛥	<u>।ए —ग्र</u> ीह	Marsh, Saltings
astilie,	Rough Grassland	$uuuu_{tt}$	Heath	1	Culvert
*** >	Direction of water fle	ωw	Triangulation Station	, ÷	Antiquity (site of)
E_TL	_ Electric	ity Transmis	ssion Line	\boxtimes	Electricity Pylon
\ € \	231.6ûm E	Bench Mark	7	Building Building	
	Roofe	ed Building		251	azed Roof uilding
		Civil parish	/community b	oundary	
		District box	="	-	
		County box	undary		
9	,	Boundary	=		
			nereing symb	ol (note:	these
×		always app of three)	ear in oppose	ed pairs o	or groups
Bks	Barracks		Р	Pillar, Po	le or Post
Bty	Battery		PO PO	Post Offi	
Cemy Chy	Cemetery		PC Pp	Public C Pump	onvenience
Cis	Chimney Cistern		Pp Ppg Sta	Pump	ı Station
Dismtd F		tled Railway	PW	Place of	
El Gen S	•	ity Generating		pg Sta S	ewage
EIP		Pole, Pillar	SB, S Br		umping Station ox or Bridge
	ta Electricity		SP, SL	_	ost or Light
FB	Filter Bed		Spr	Spring	
Fn / D Fr	n Fountain /	Drinking Ftn.	Tk	Tank or	Гrack
0 0			T	T	

Gas Valve Compound

Mile Post or Mile Stone

Gas Governer

Guide Post

Manhole

Tr

Wd Pp

Wks

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

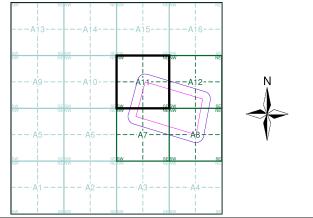
Works (building or area)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1866 - 1895	2
Pembrokeshire	1:2,500	1908	3
Ordnance Survey Plan	1:2,500	1967 - 1973	4
Additional SIMs	1:2,500	1967	5
Ordnance Survey Plan	1:1,250	1989	6
Large-Scale National Grid Data	1:1,250	1994	7
Large-Scale National Grid Data	1:1,250	1995	8
Large-Scale National Grid Data	1:1,250	1996	9
Historical Aerial Photography	1:2,500	2003	10

Historical Map - Segment A11



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730 Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

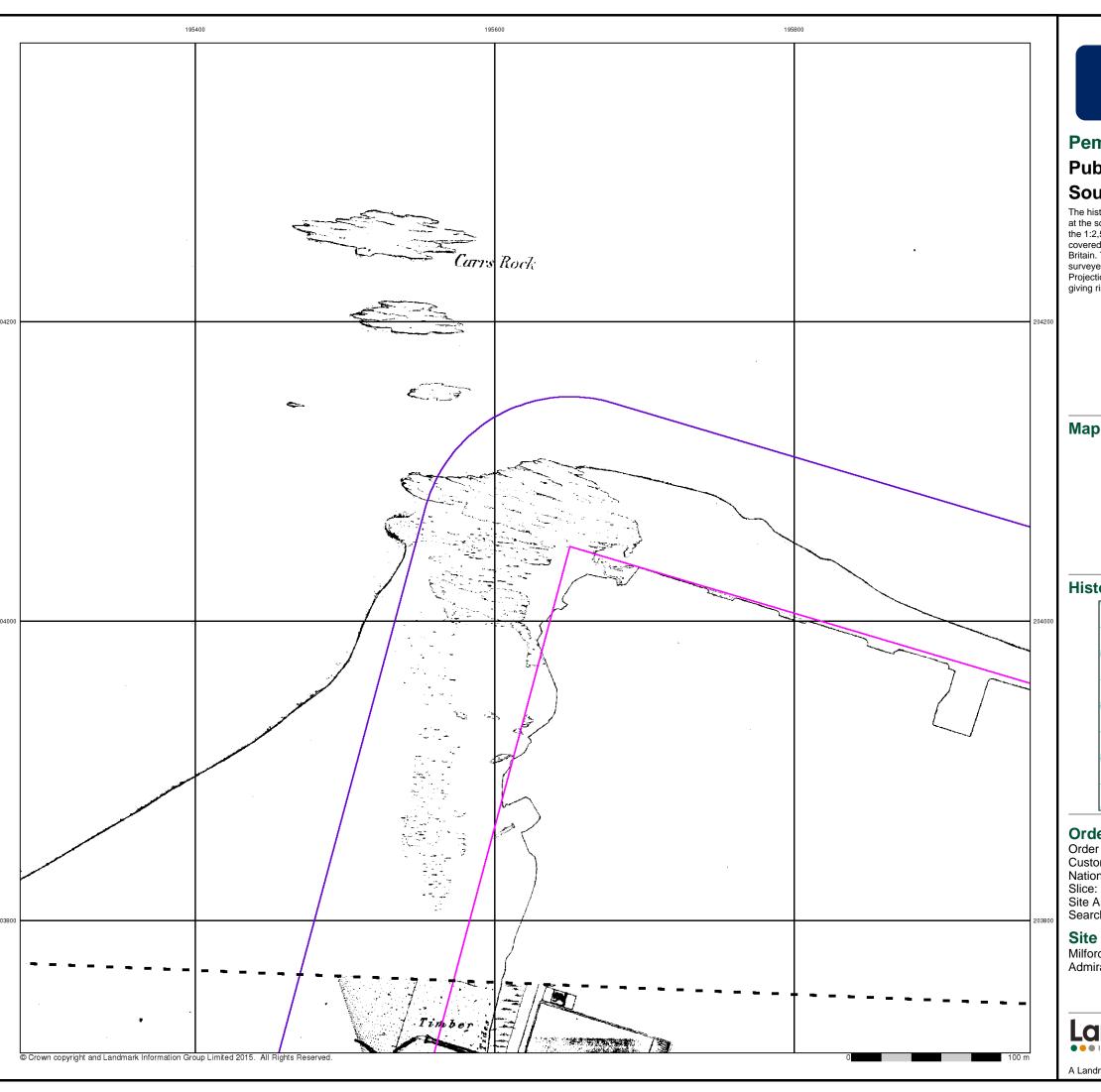
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952

A Landmark Information Group Service v50.0 12-Jan-2018 Page 1 of 10



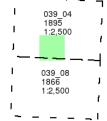


Pembrokeshire

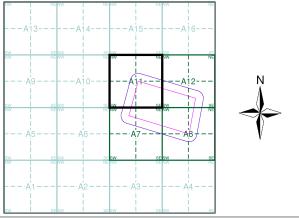
Published 1866 - 1895 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Α Site Area (Ha): Search Buffer (m): 36.27 100

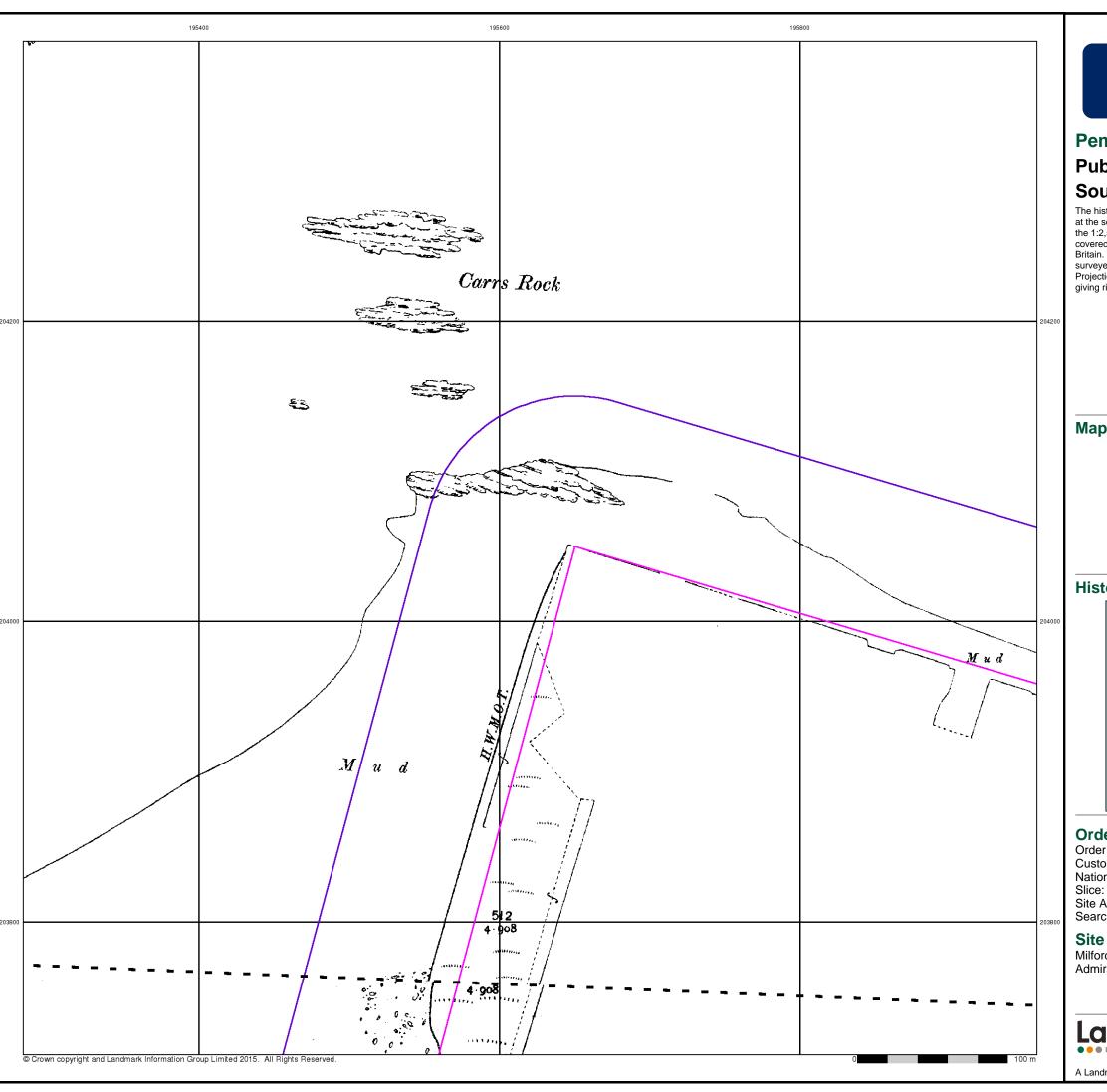
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952

A Landmark Information Group Service v50.0 12-Jan-2018 Page 2 of 10





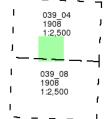
Pembrokeshire

Published 1908

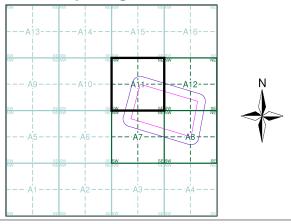
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Α Site Area (Ha): Search Buffer (m): 36.27 100

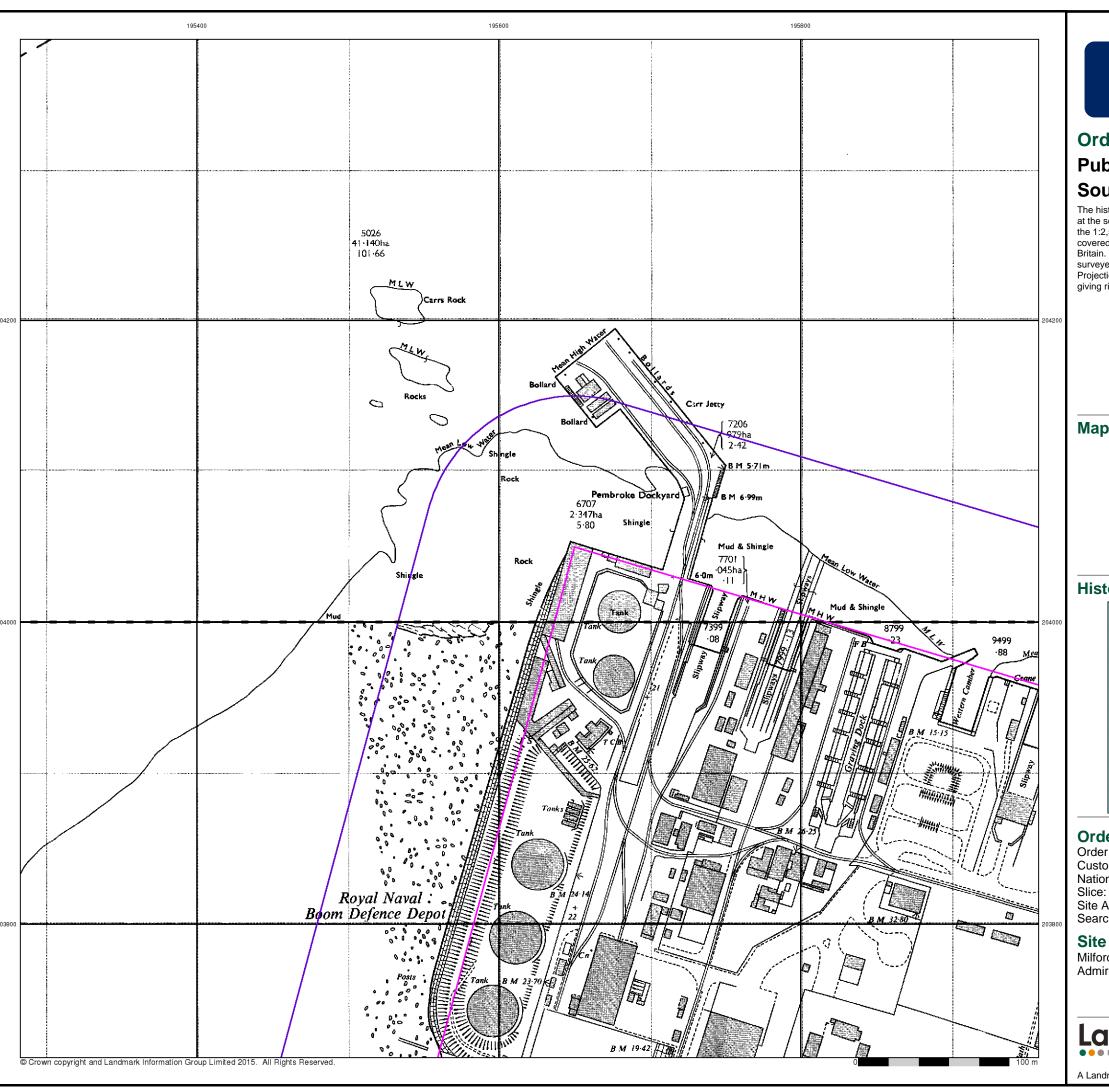
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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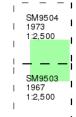
Ordnance Survey Plan

Published 1967 - 1973

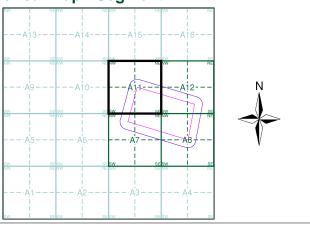
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 100

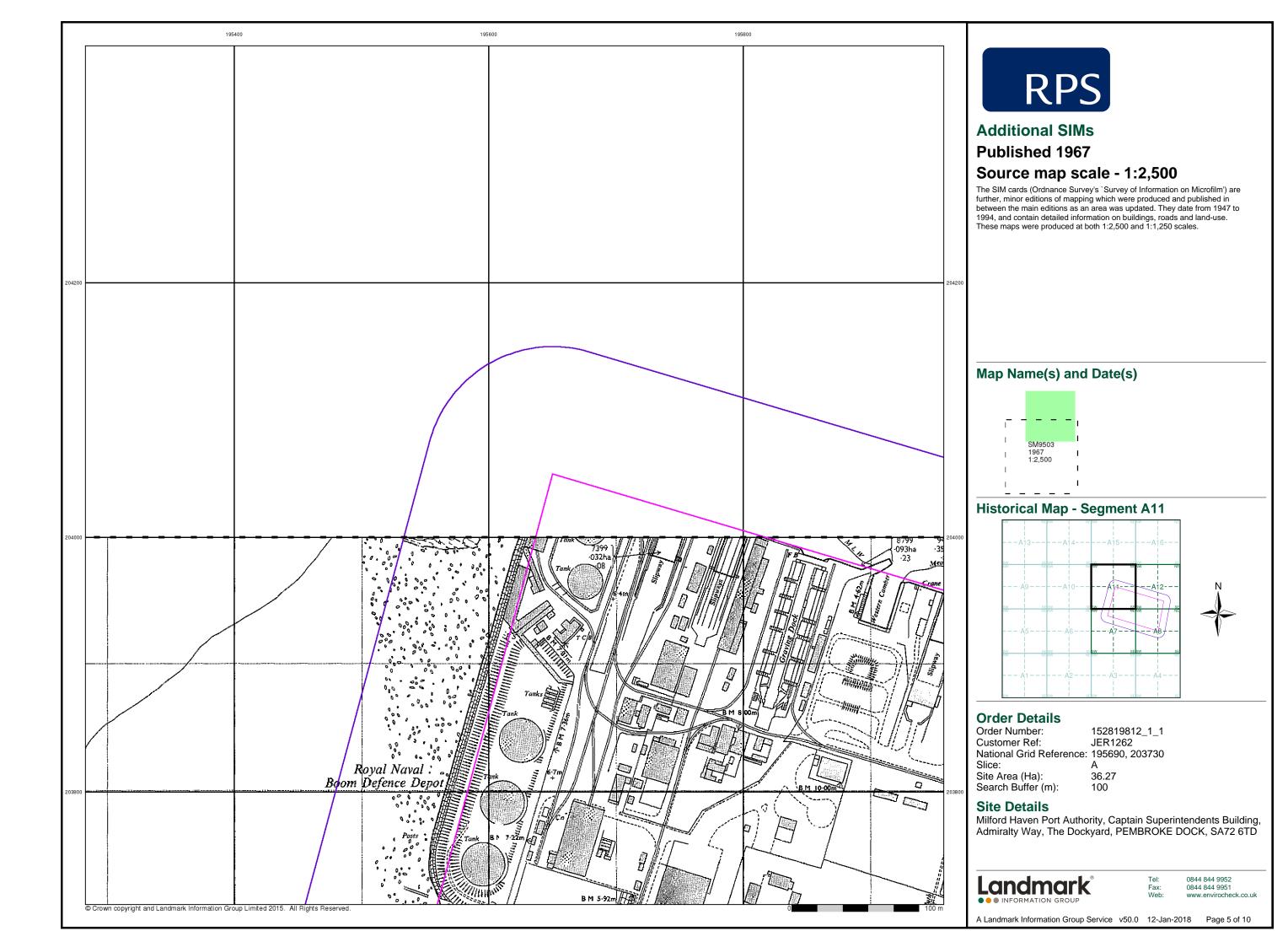
Site Details

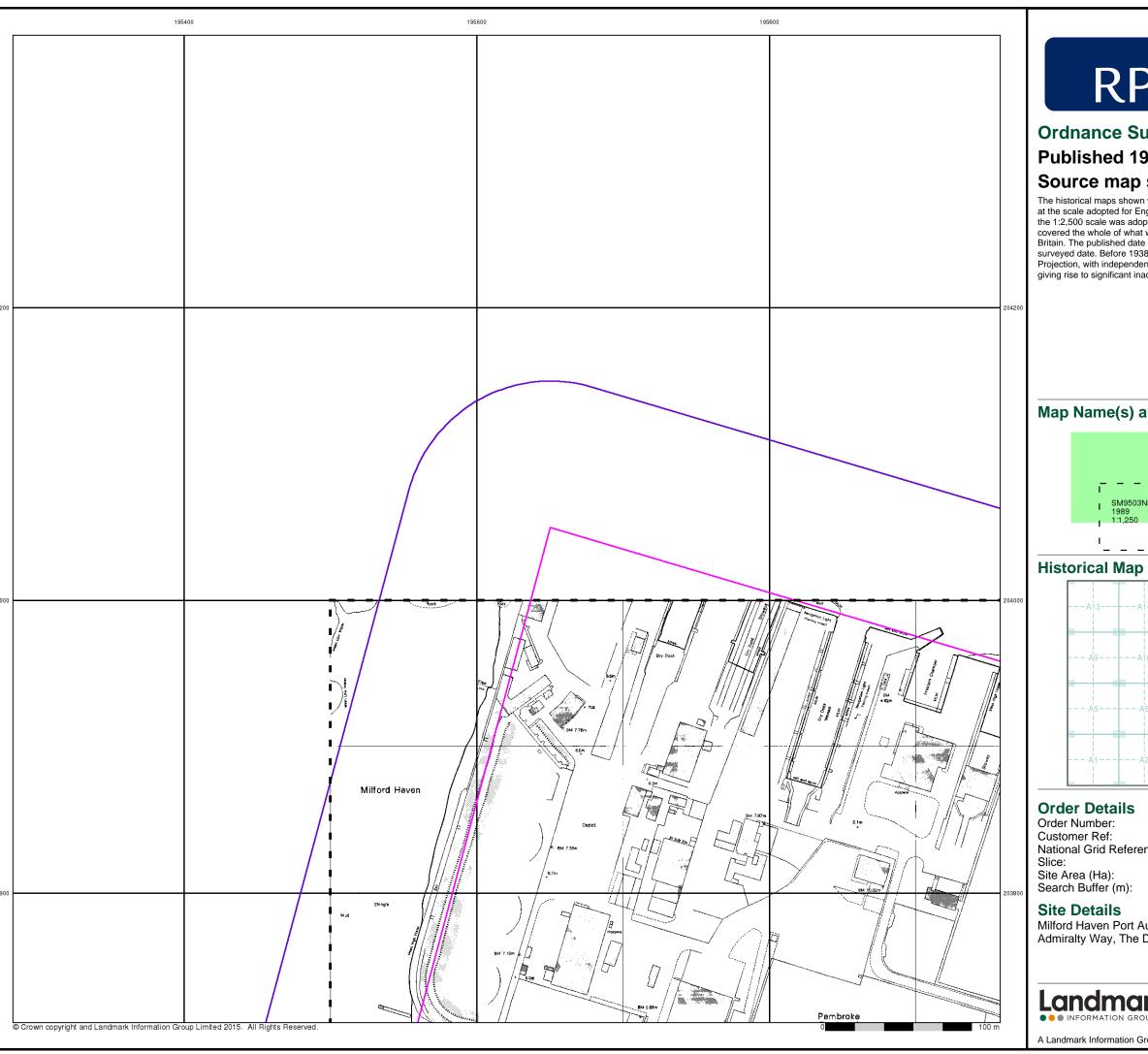
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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A Landmark Information Group Service v50.0 12-Jan-2018 Page 4 of 10







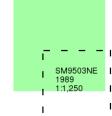
Ordnance Survey Plan

Published 1989

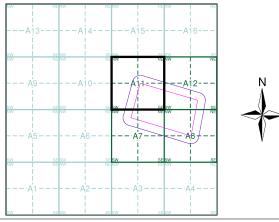
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A11



152819812_1_1 JER1262 National Grid Reference: 195690, 203730

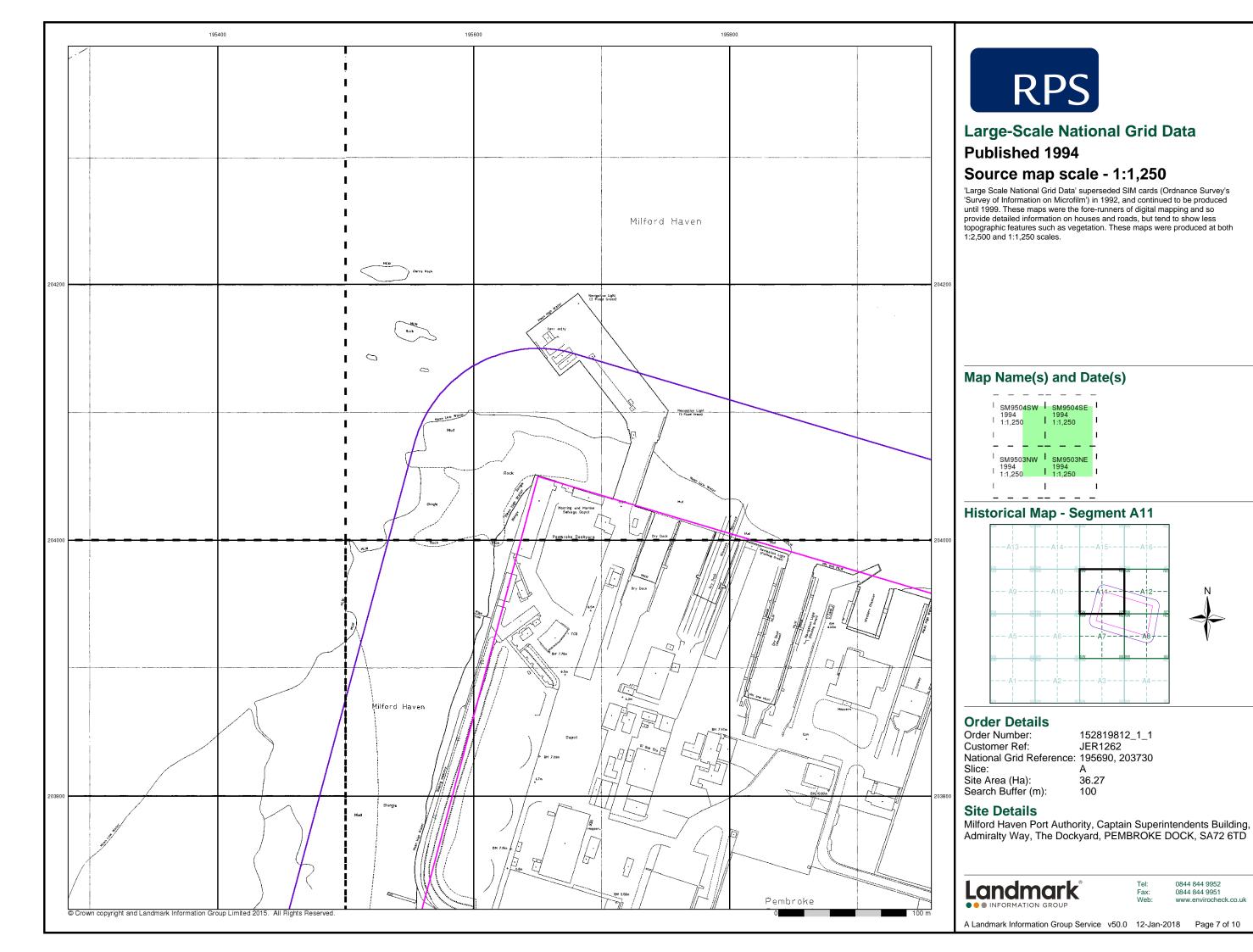
Α 36.27 100

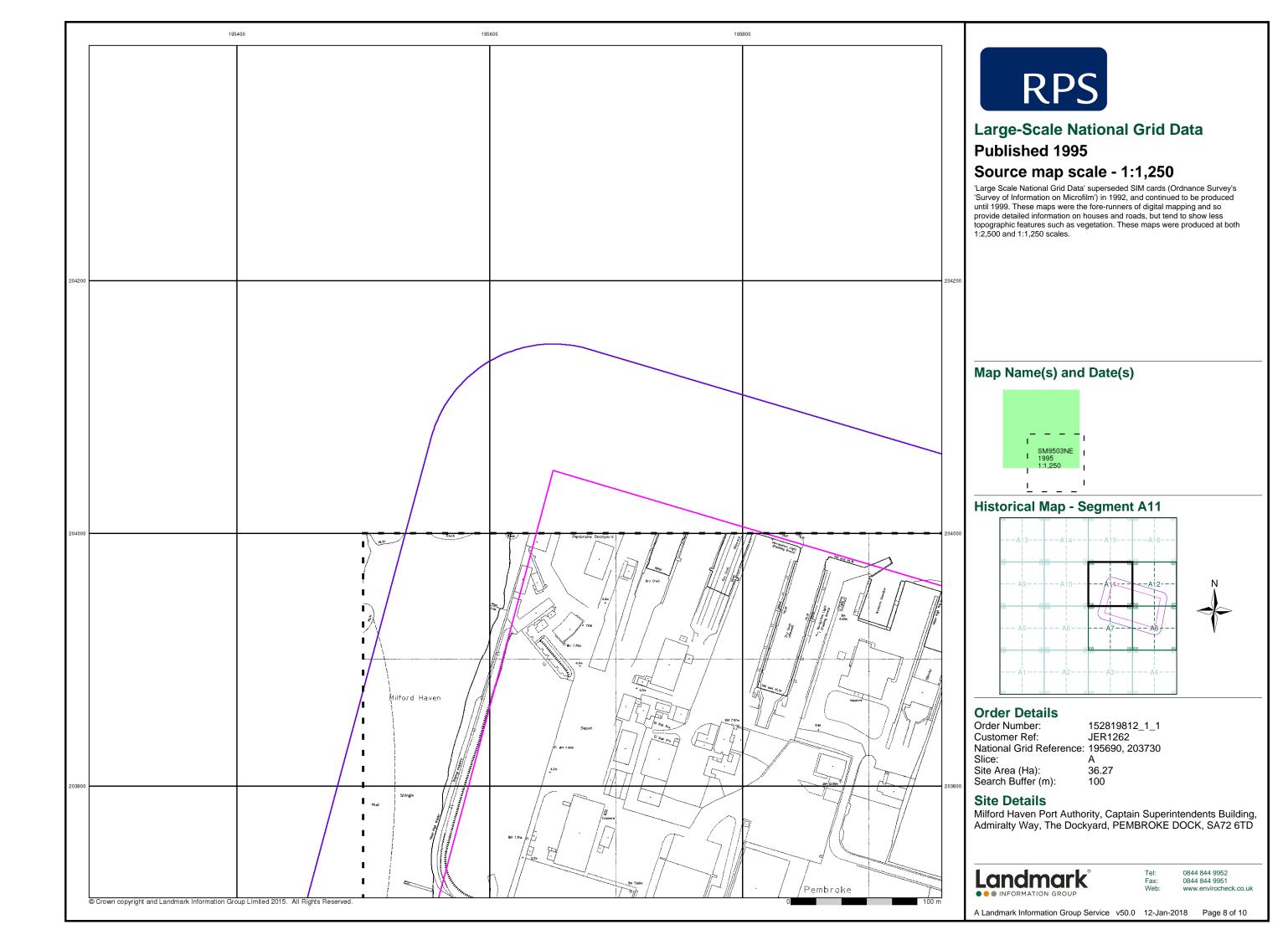
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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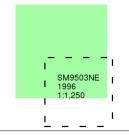
Large-Scale National Grid Data

Published 1996

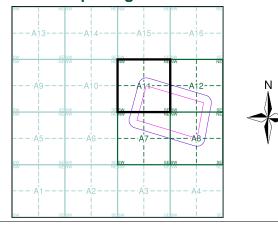
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

Site Details

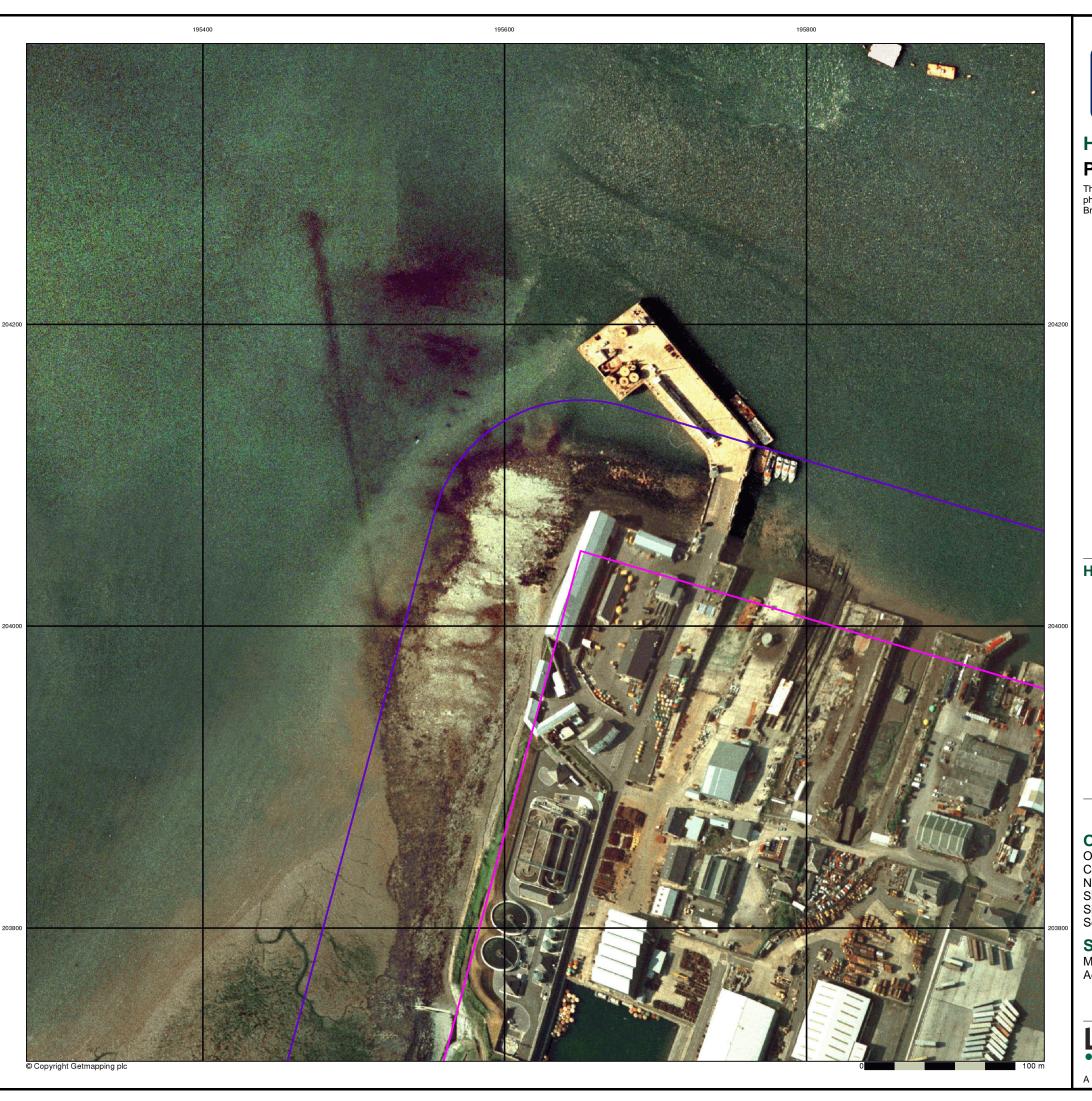
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

INFORMATION GROUP

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

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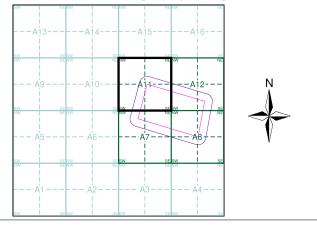


Historical Aerial Photography

Published 2003

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

Historical Aerial Photography - Segment A11



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

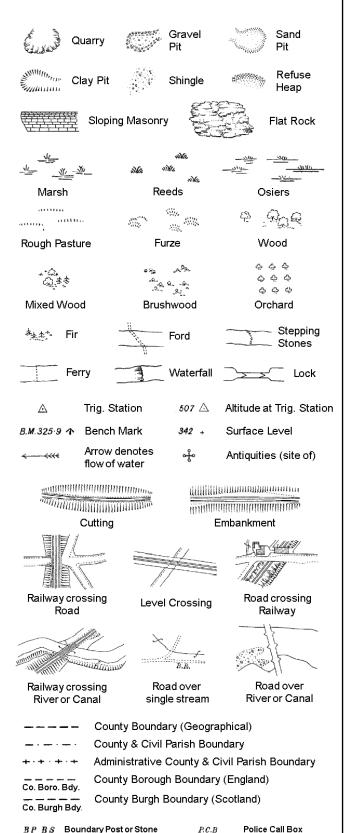
INFORMATION GROUP

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A Landmark Information Group Service v50.0 12-Jan-2018 Page 10 of 10

Historical Mapping Legends

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



Pump

Sluice

Spring

Trough Well

Signal Post

Telephone Call Box

S.P

Sl.

Tr:

B.R.

E.P

F.B.

M.S

Bridle Road

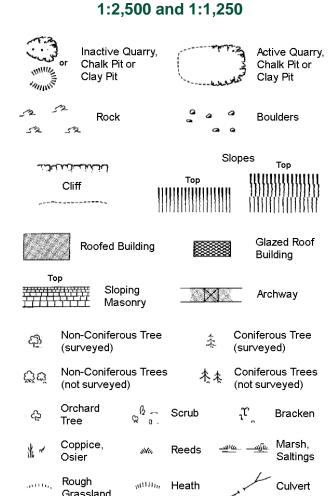
Foot Bridge

Mile Stone

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

Electricity Pylor

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



Direction Bench Antiquity of water flow (site of) Electricity Cave Triangulation ÷

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

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

1:1,250

		Slo	pes	Тор
Clitt		Тор	!!!!!! !!!!!!	
Som Rock		52	Rock (s	cattered)
△ Boulders		Δ.	Boulder	s (scattered)
○ Positioned	Boulder		Scree	
സ്ത്ര Non-Conif (surveyed	erous Tree)	-1-	Conifero	ous Tree ed)
ಧ್ಧಿಧ Non-Conif (not surve	erous Trees yed)	~ ~ ~ .	Conifer (not sur	ous Trees ∨eyed)
දා Orchard Tree	Ç ^l a. So	rub	'n,	Bracken
Coppice, Osier	ava, Re	eds 🗝	<u> </u>	Marsh, Saltings
Rough Grassland	_{шини} . Не	eath	1	Culvert
Direction of water flo		angulation ation	ઌ૾ૺ	Antiquity (site of)
E <u>T</u> L Electric	ity Transmissio	on Line	\boxtimes	Electricity Pylon
	Bench Mark			gs with g Seed
Roofe	ed Building		q .	lazed Roof uilding
	Civil parish/co	mmunity by	nundarv	
		-	Juliual y	
	District bound	-		
_ •	County bounda	ary		
0	Boundary post	:/stone		
٥	Boundary mer always appear of three)			
Bks Barracks		Р	Pillar, Po	ole or Post
Bty Battery		PO	Post Off	īce
Cemy Cemetery		PC	Public C	onvenience
Chy Chimney		Pp	Pump	
Cis Cistern		Ppg Sta		g Station
	tled Railway	PW		Worship
Station	ity Generating	Sewage Pr	P	ewage umping Station
-	Pole, Pillar	SB, S Br	_	ox or Bridge
El Sub Sta Electricity	Sub Station	SP, SL	_	ost or Light
FB Filter Bed		Spr	Spring	

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

Gas Valve Compound

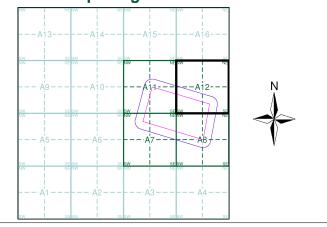
Mile Post or Mile Stone



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1866 - 1895	2
Pembrokeshire	1:2,500	1908	3
Ordnance Survey Plan	1:2,500	1967 - 1973	4
Additional SIMs	1:2,500	1967 - 1990	5
Ordnance Survey Plan	1:2,500	1974 - 1976	6
Ordnance Survey Plan	1:1,250	1989	7
Additional SIMs	1:1,250	1990	8
Large-Scale National Grid Data	1:1,250	1994	9
Large-Scale National Grid Data	1:1,250	1994 - 1995	10
Large-Scale National Grid Data	1:1,250	1996	11
Historical Aerial Photography	1:2,500	2003	12

Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 JER1262 Customer Ref: National Grid Reference: 195690, 203730 Slice:

Site Area (Ha): 36.27 Search Buffer (m): 100

Site Details

Tank or Track

Works (building or area)

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

Tr

Wd Pp

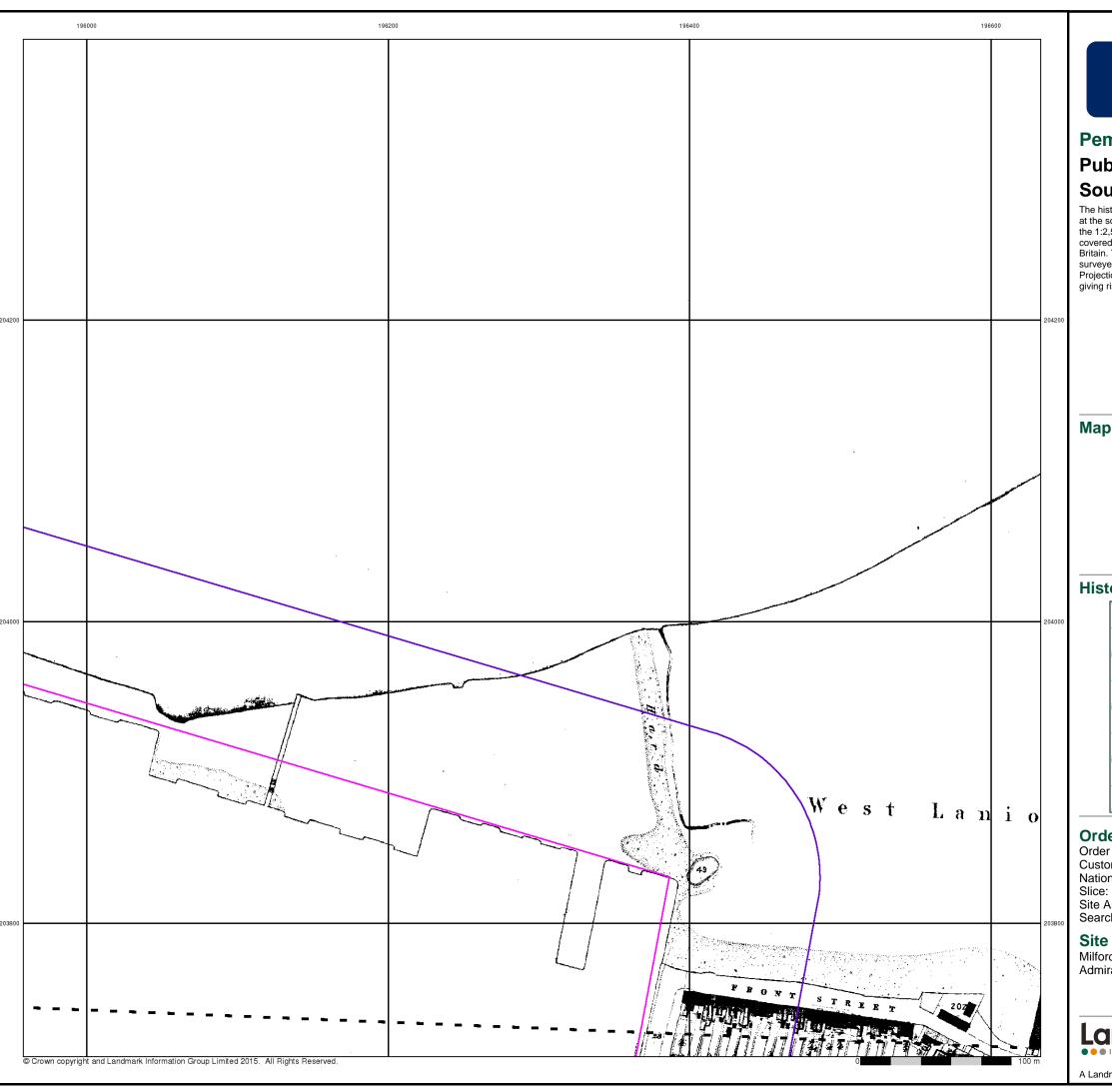
Wks

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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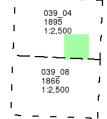


Pembrokeshire

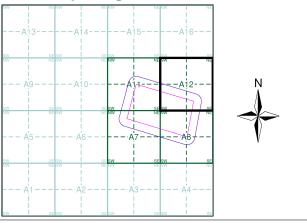
Published 1866 - 1895 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Α Site Area (Ha): Search Buffer (m): 36.27 100

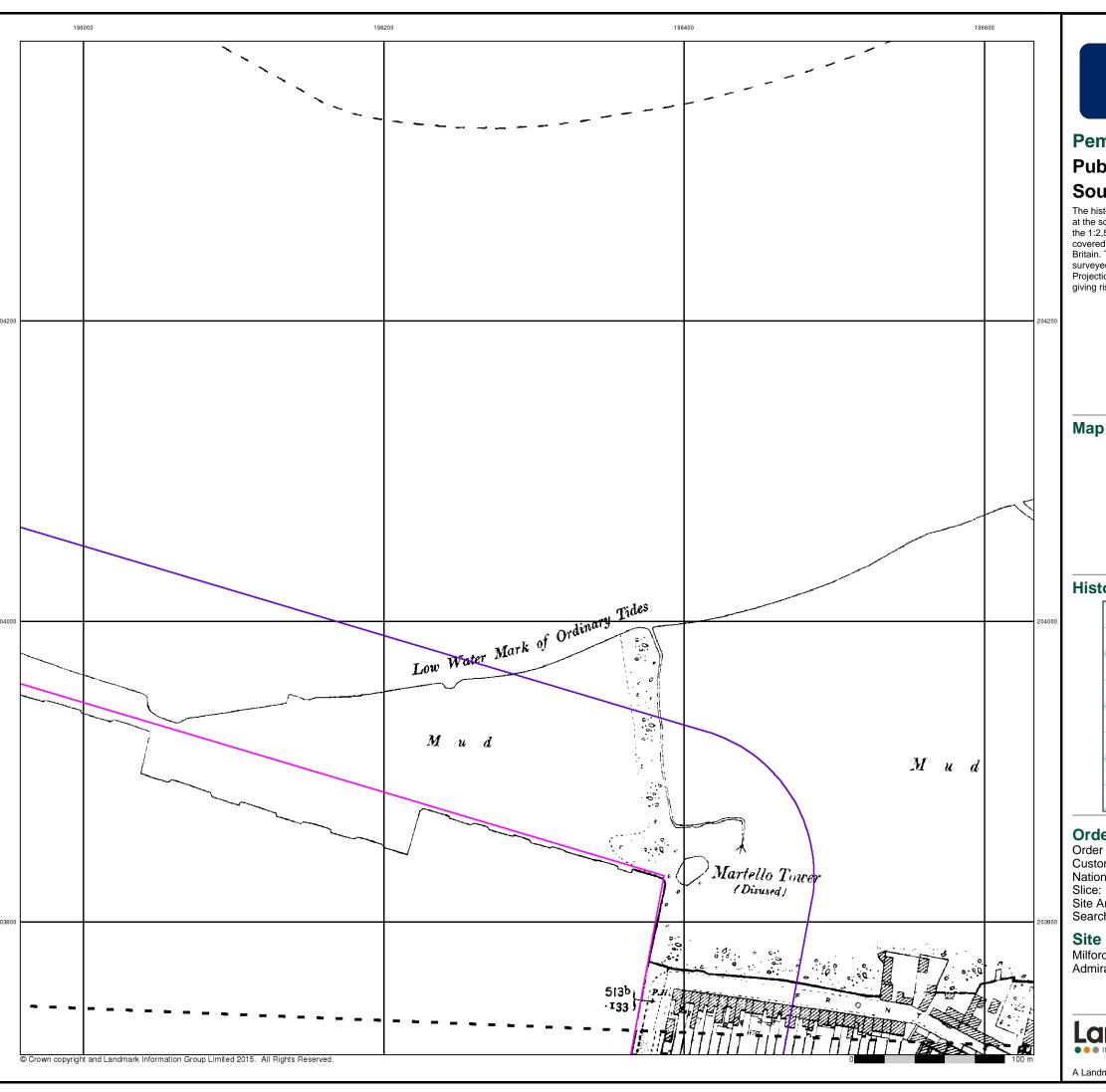
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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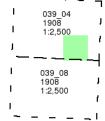
Pembrokeshire

Published 1908

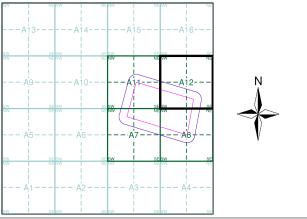
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730 Α

Site Area (Ha): Search Buffer (m): 36.27 100

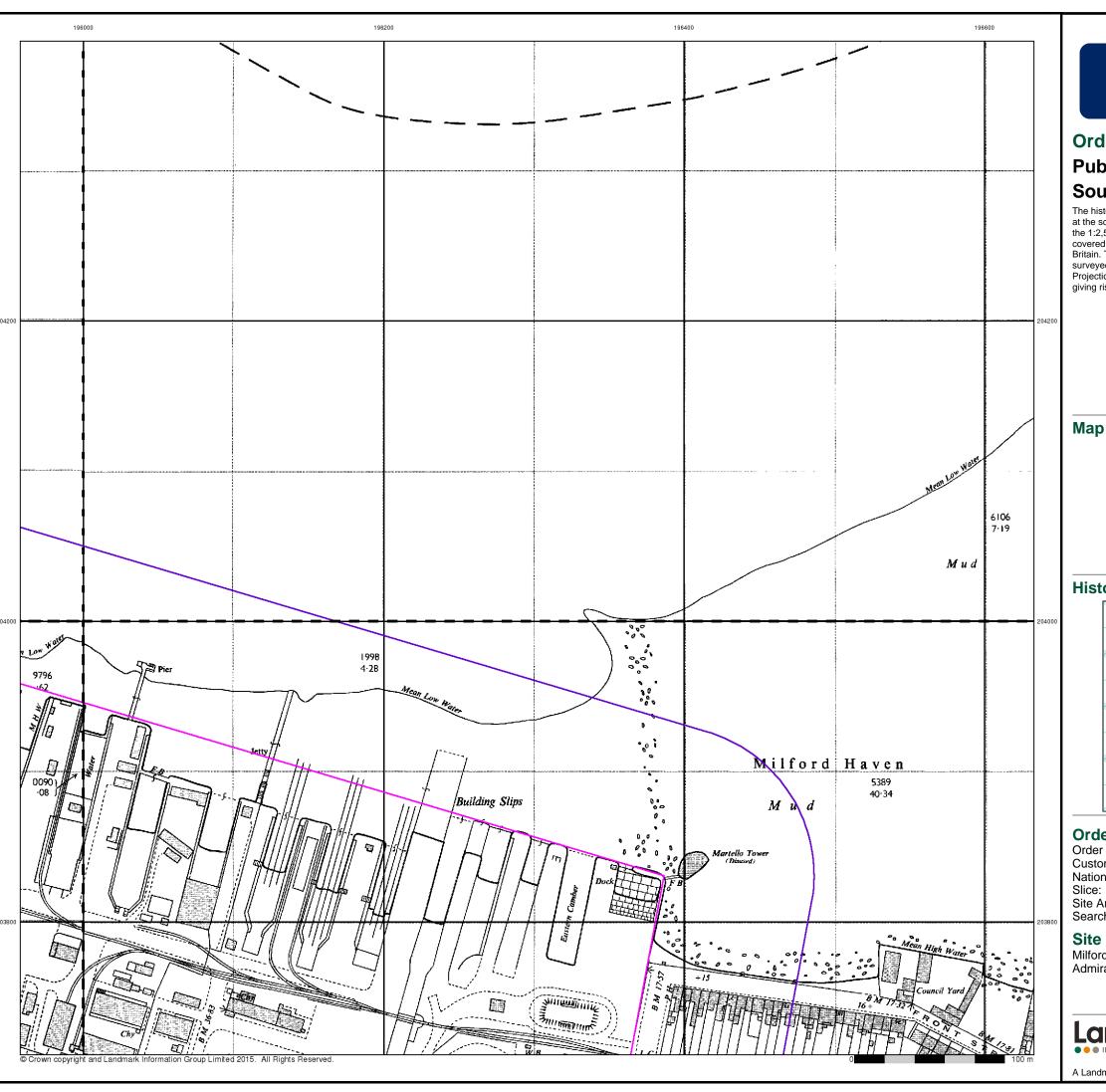
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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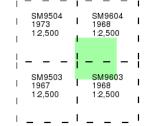
Ordnance Survey Plan

Published 1967 - 1973

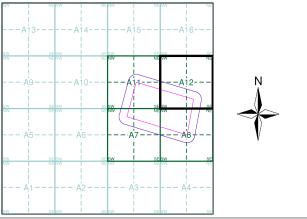
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Site Area (Ha): Search Buffer (m): 36.27 100

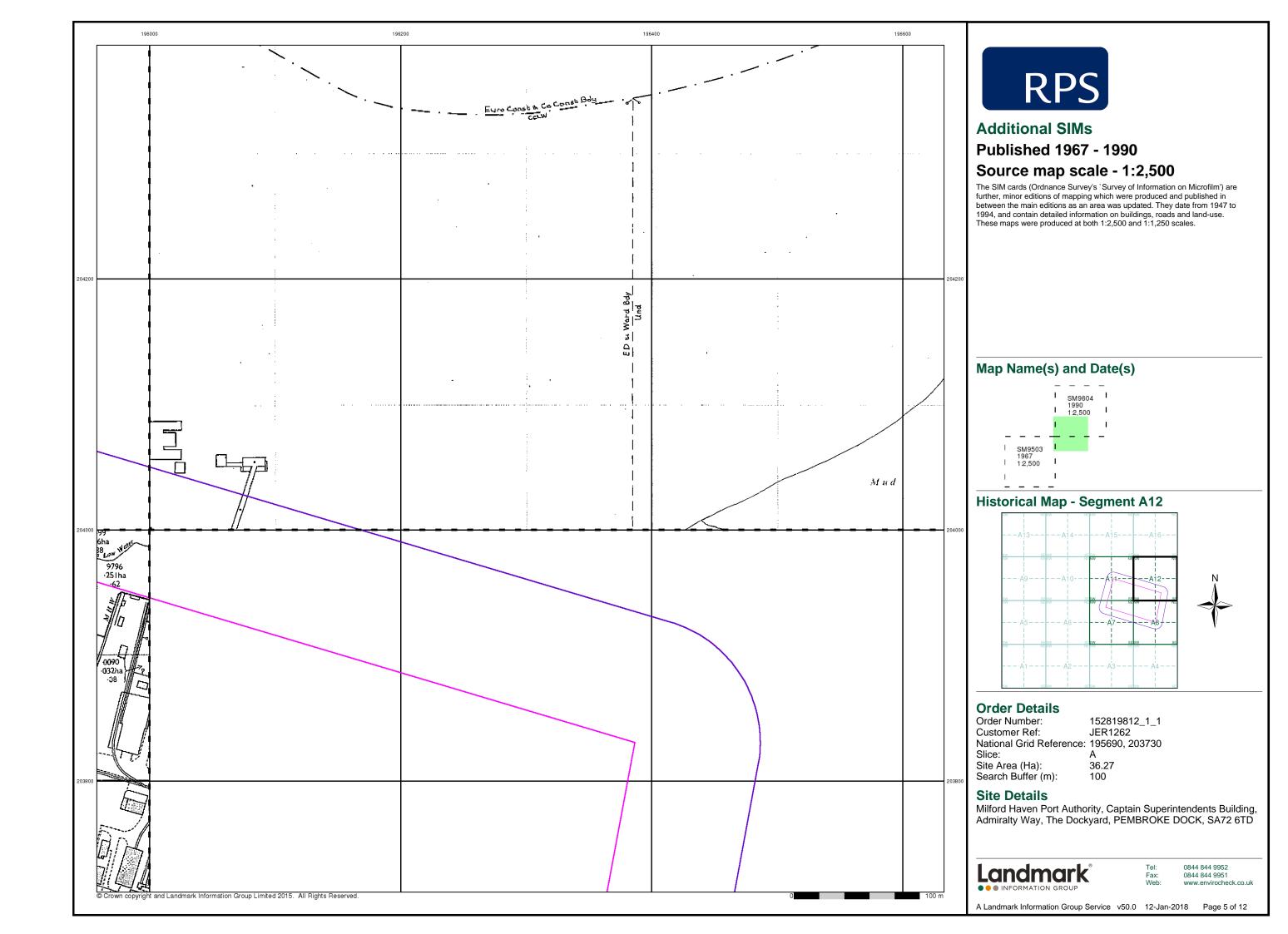
Site Details

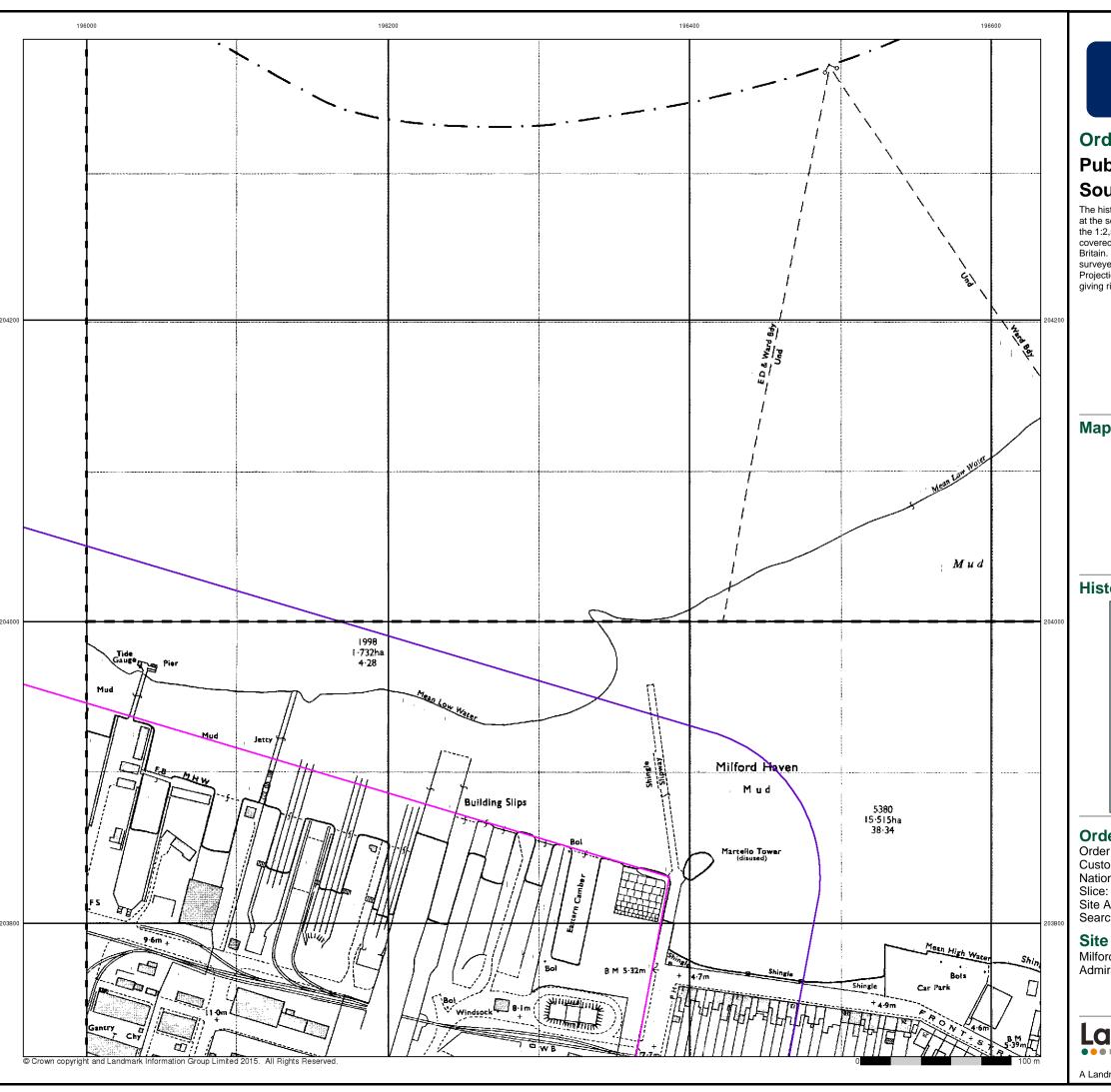
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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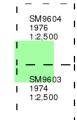
Ordnance Survey Plan

Published 1974 - 1976

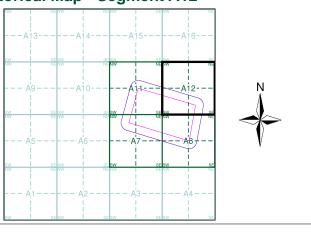
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730

Α Site Area (Ha): Search Buffer (m): 36.27 100

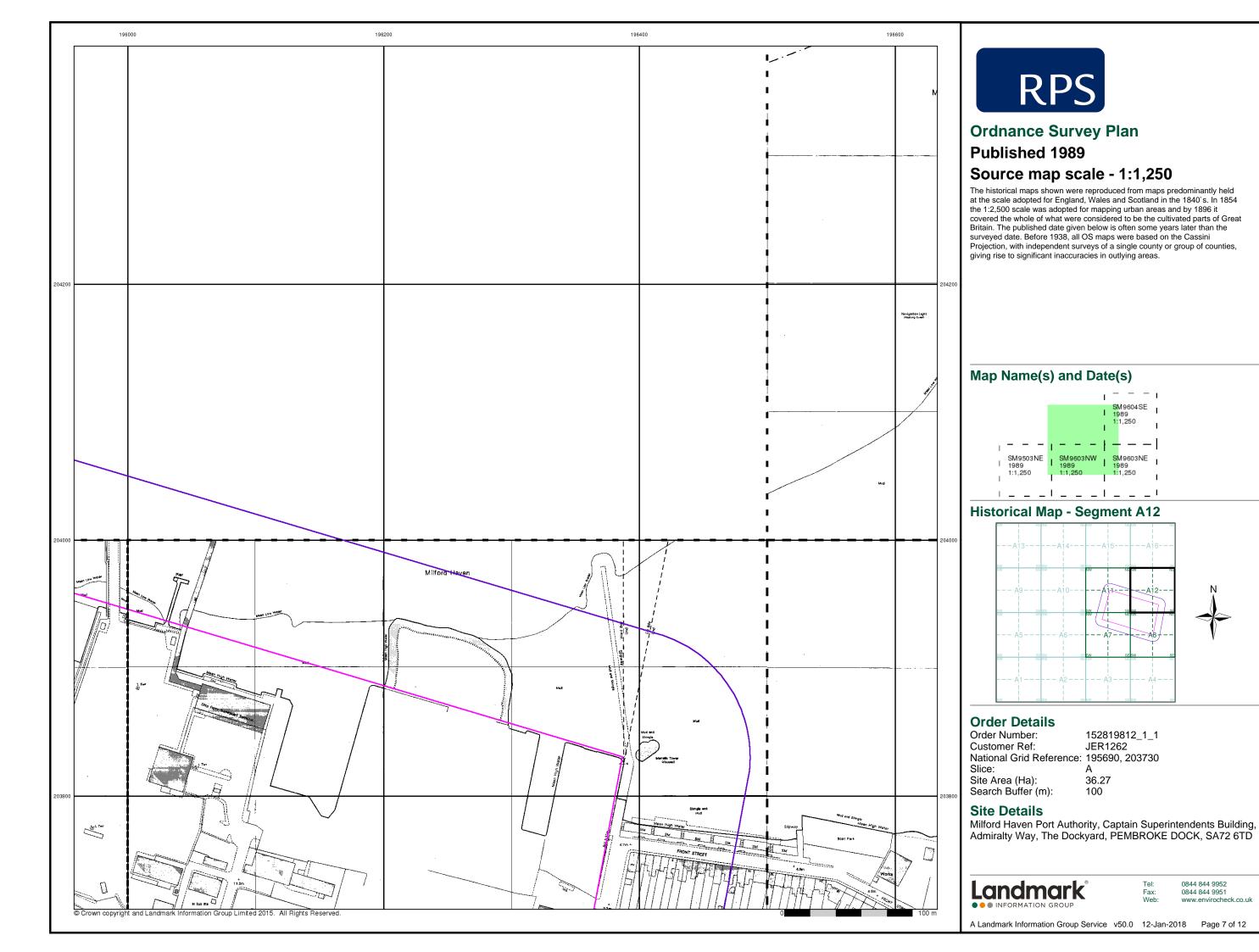
Site Details

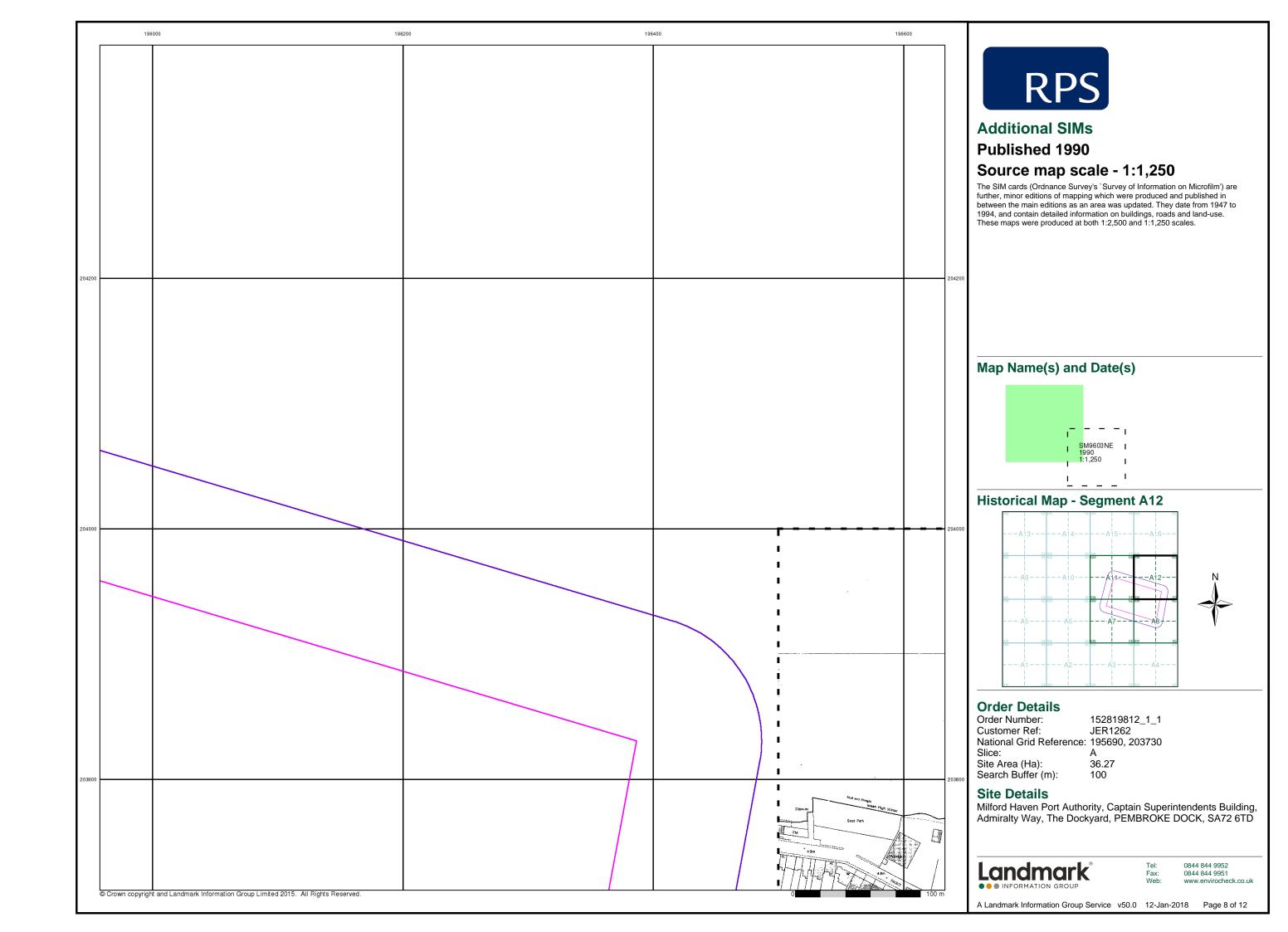
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

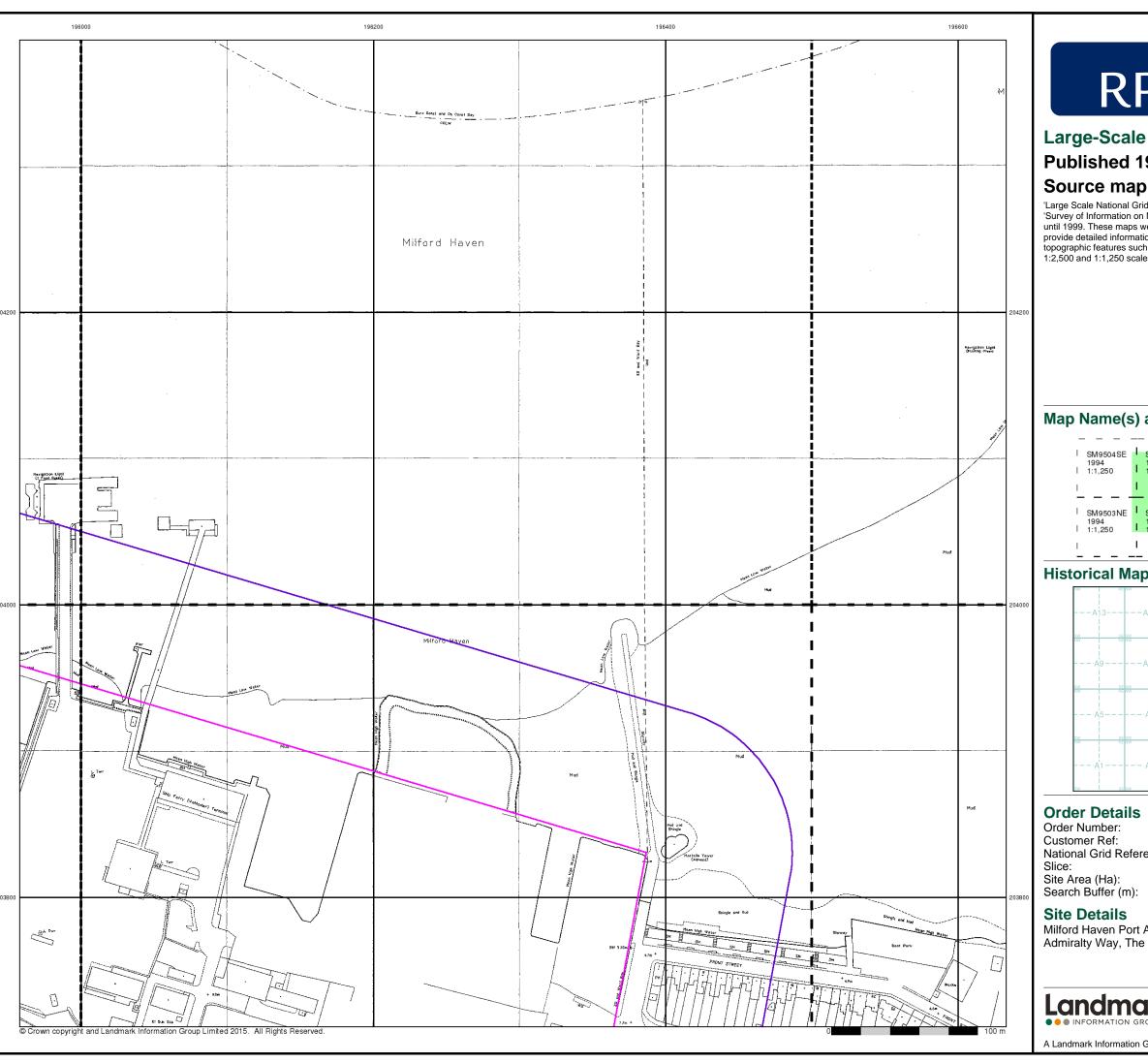


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Large-Scale National Grid Data

Published 1994

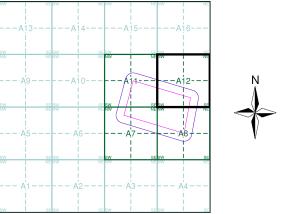
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SM9504SE 1994 I 1:1,250	SM9604SW 1994 1:1,250	SM9604SE 1994 1:1,250 I
SM9503NE	I SM9603NW	SM9603NE
1994	1994	1994
1:1,250	I 1:1,250	1:1,250

Historical Map - Segment A12



152819812_1_1 JER1262 National Grid Reference: 195690, 203730

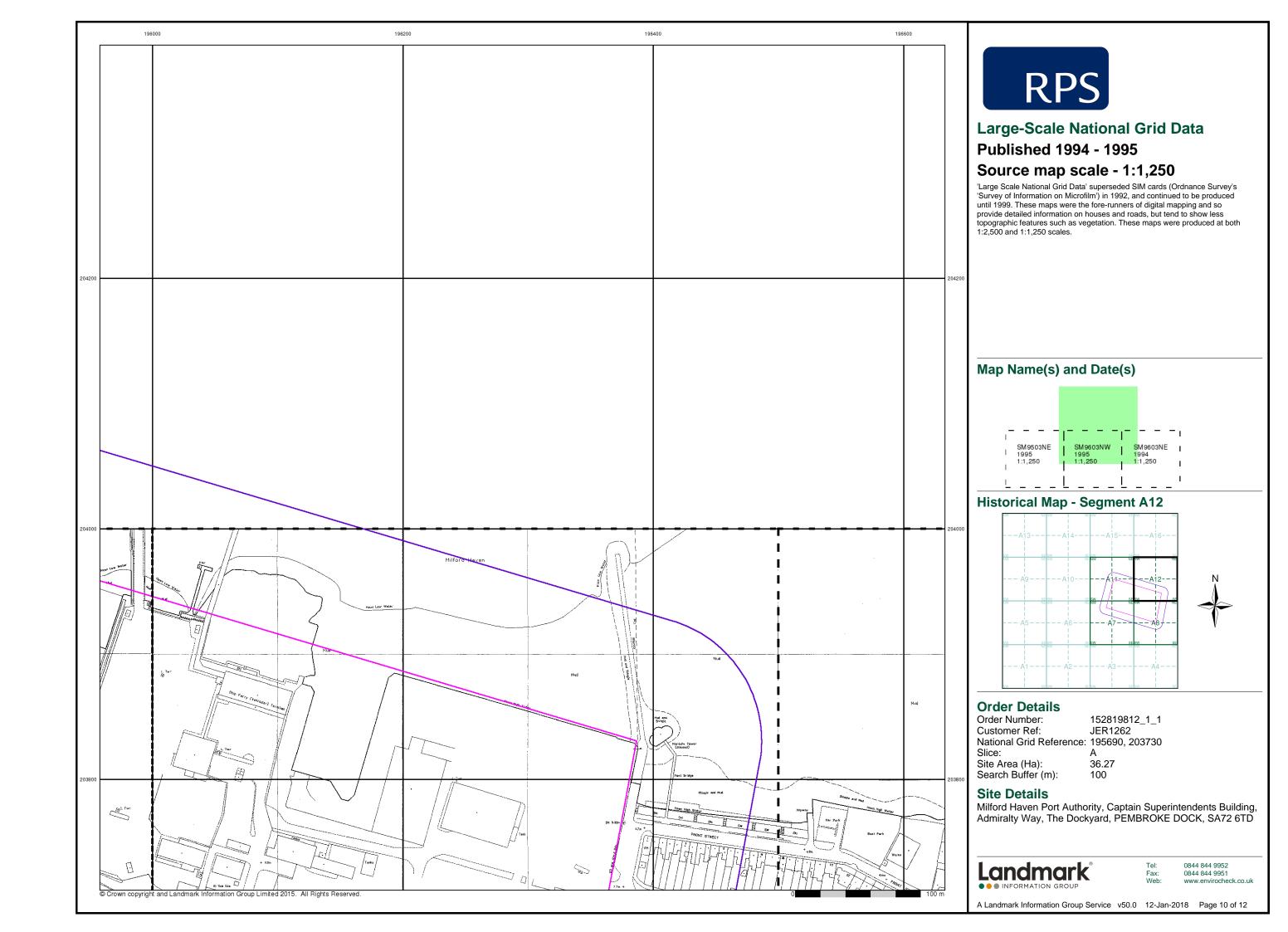
> 36.27 100

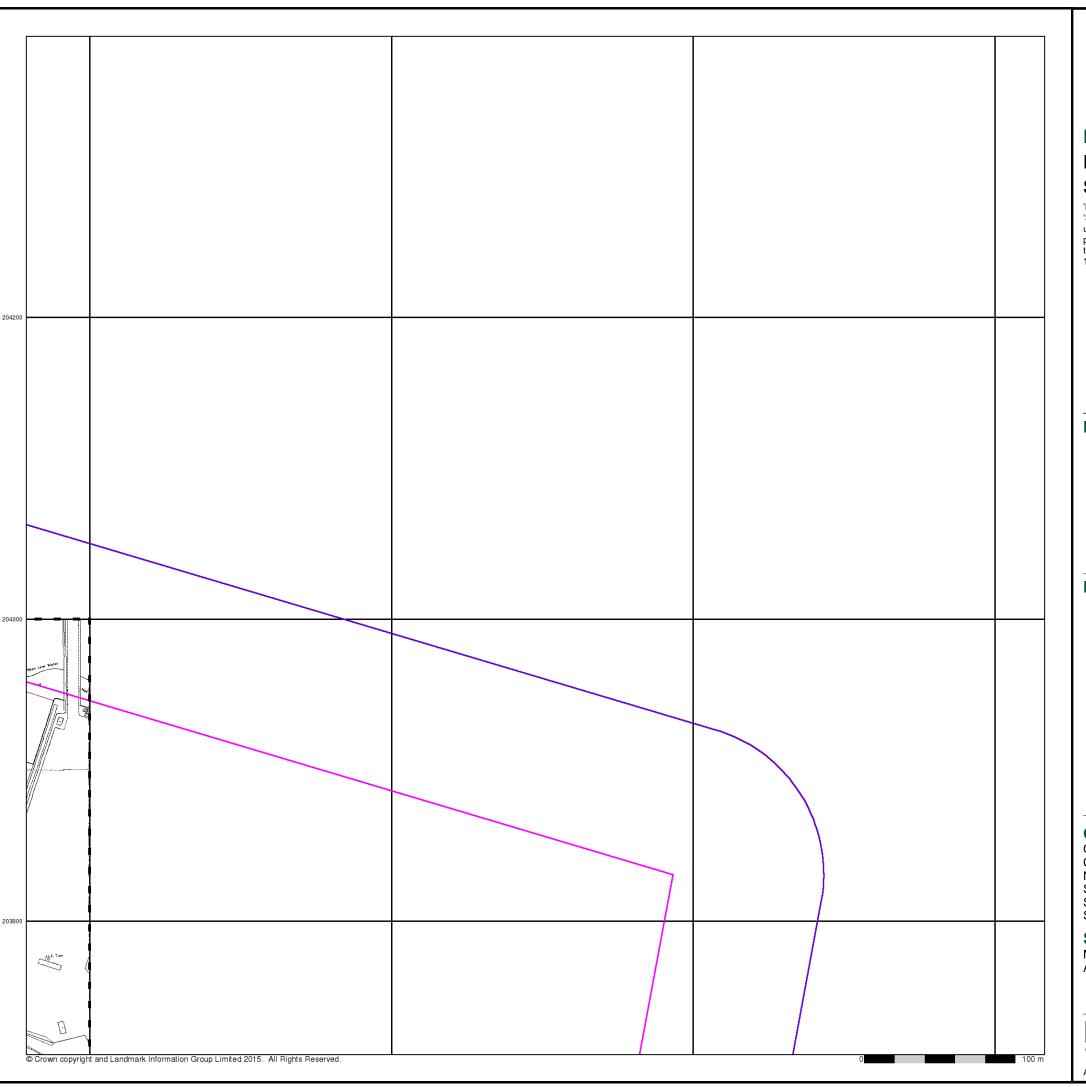
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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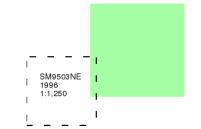
Large-Scale National Grid Data

Published 1996

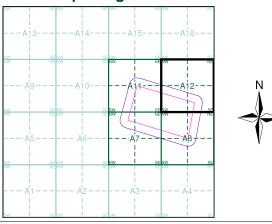
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 195690, 203730 Α

Slice:

Site Area (Ha): Search Buffer (m): 36.27 100

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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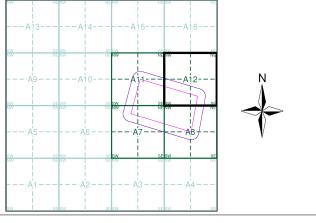


Historical Aerial Photography

Published 2003

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

Historical Aerial Photography - Segment A12



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195690, 203730

Α Site Area (Ha): Search Buffer (m): 36.27 100

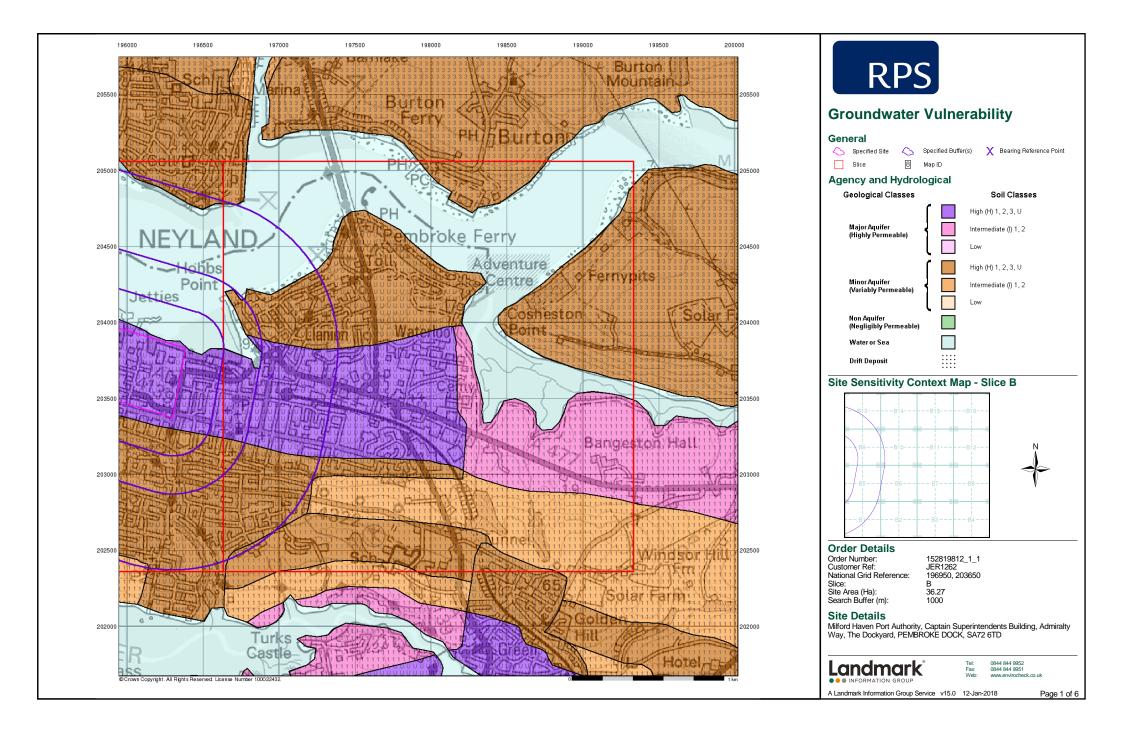
Site Details

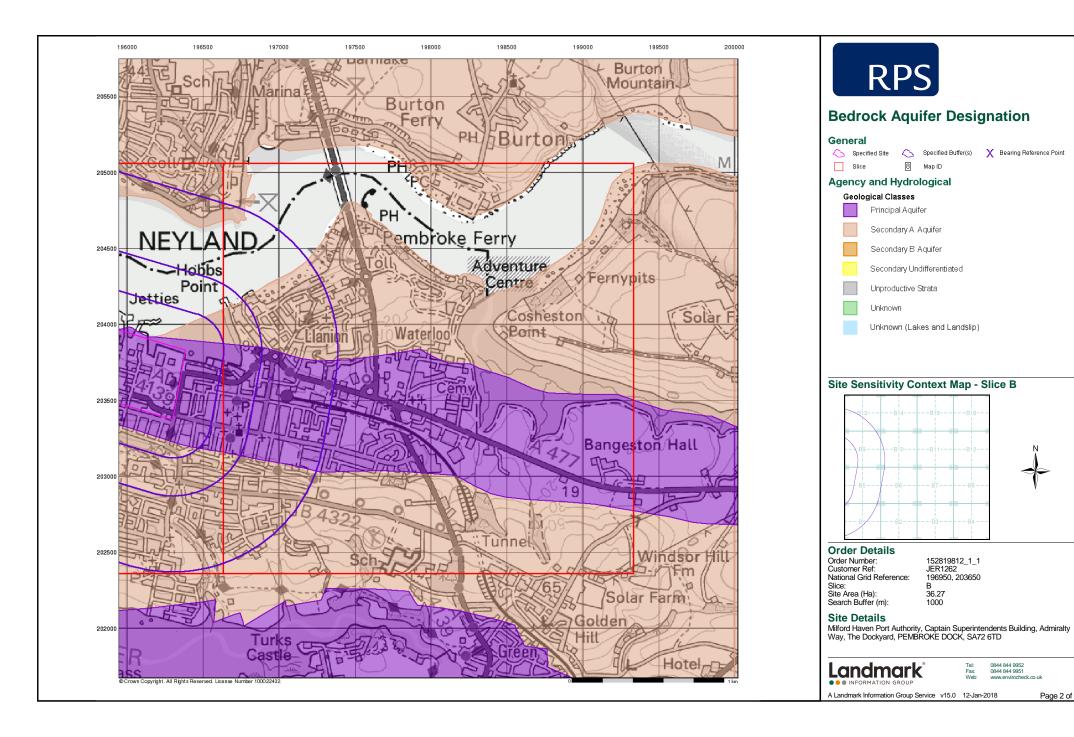
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

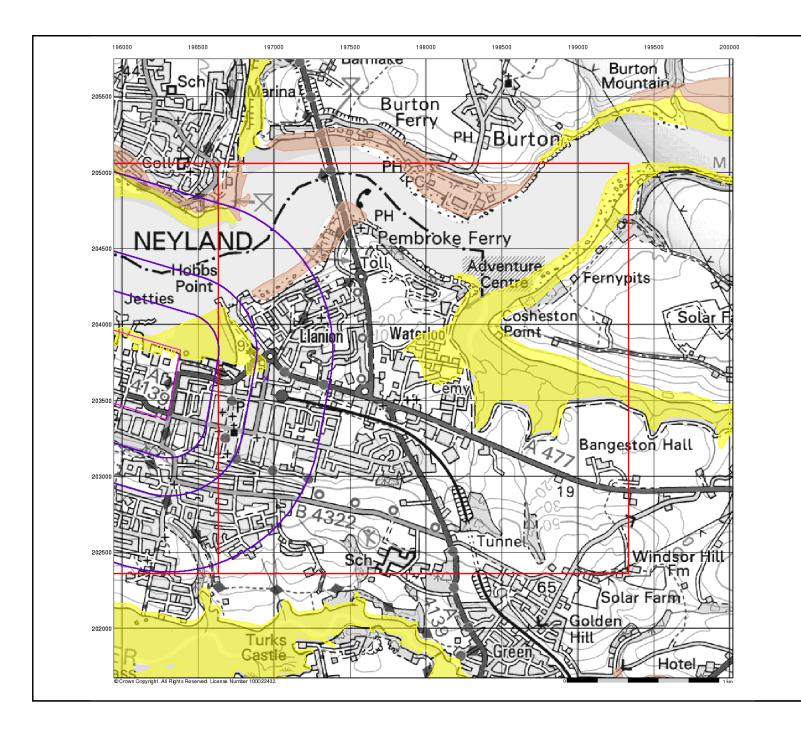
0844 844 9952 0844 844 9951

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Superficial Aquifer Designation

General

Specified Site Specified Buffer(s) X Bearing Reference Point

8 Map ID Slice

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

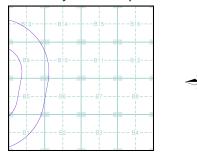
Secondary B Aquifer

Secondary Undifferentiated Unproductive Strata

Unknown

Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice B



Order Details

152819812_1_1 JER1262 196950, 203650 Order Number: Customer Ref: National Grid Reference: B 36.27

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

Site Details

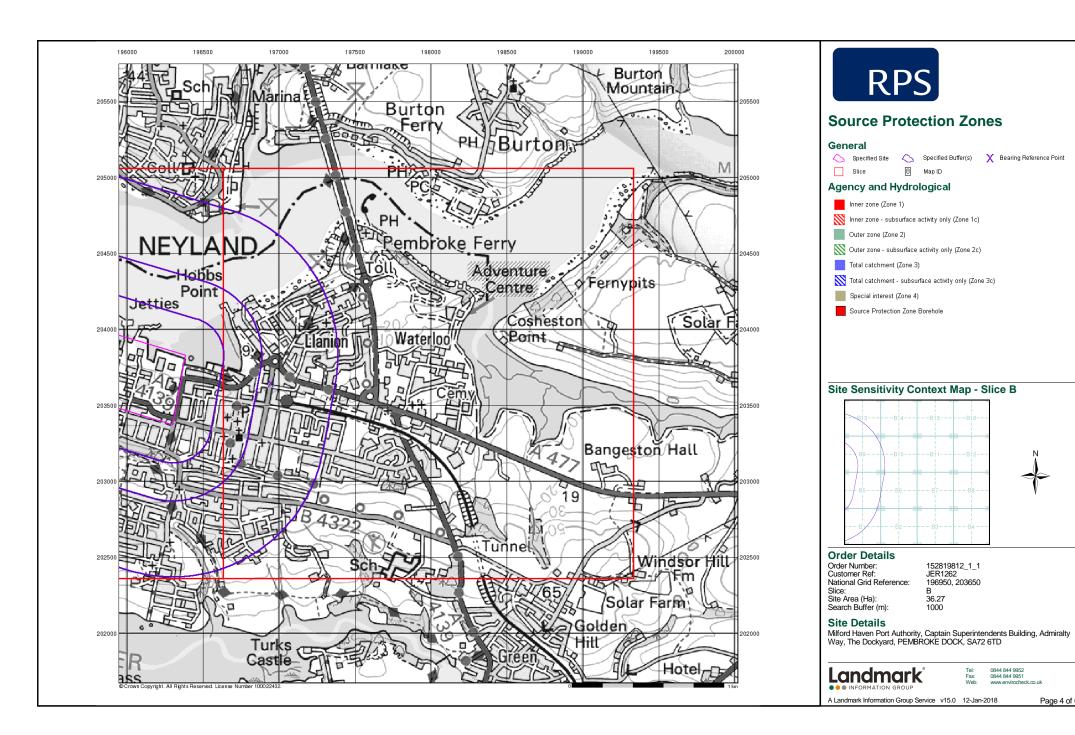
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



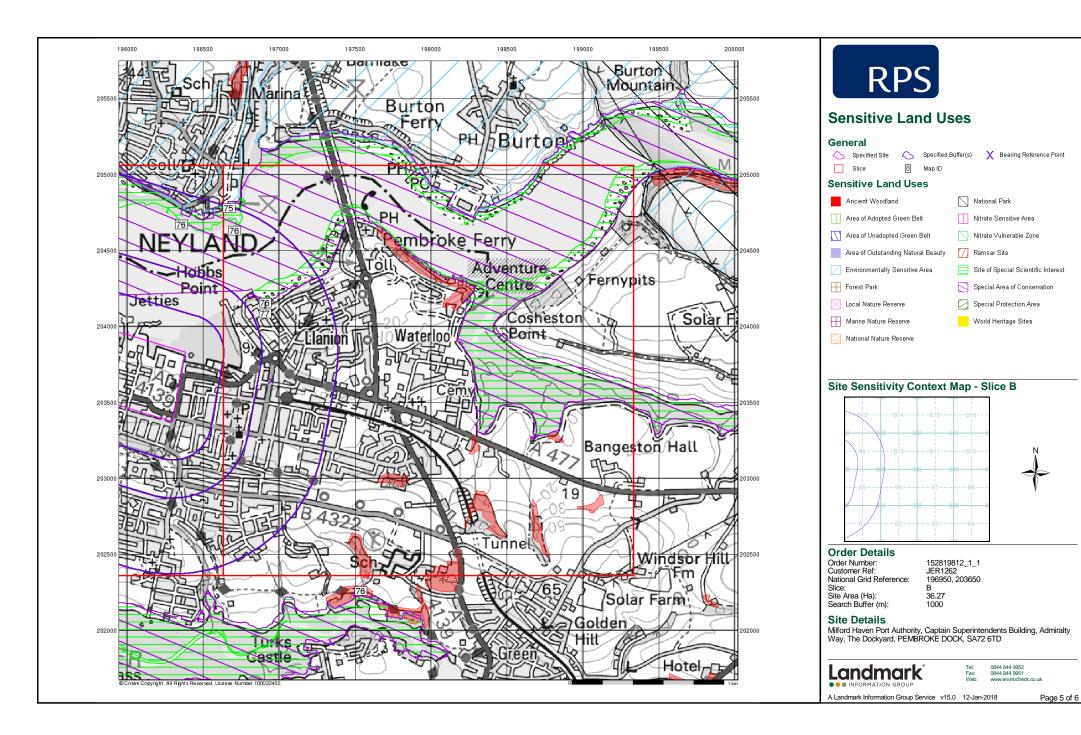
0844 844 9952 0844 844 9951

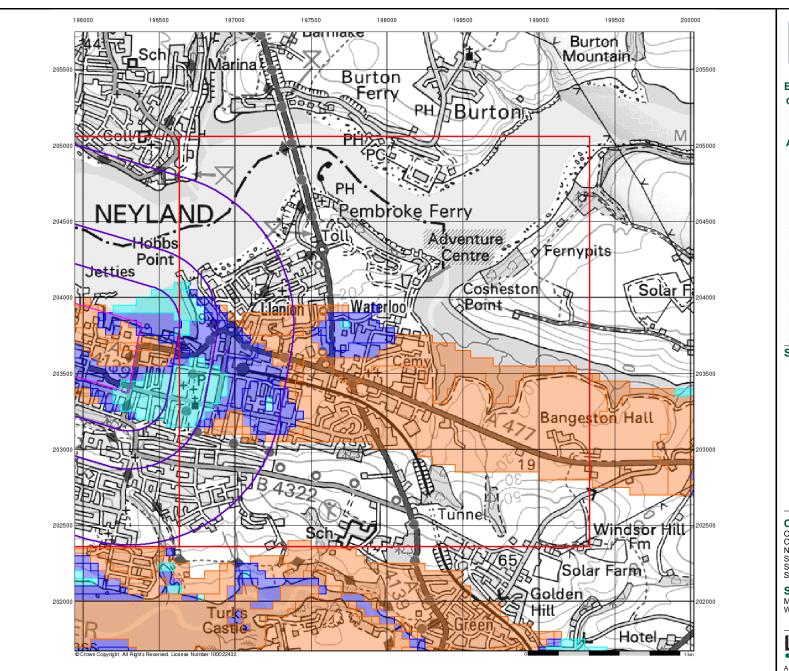
A Landmark Information Group Service v15.0 12-Jan-2018

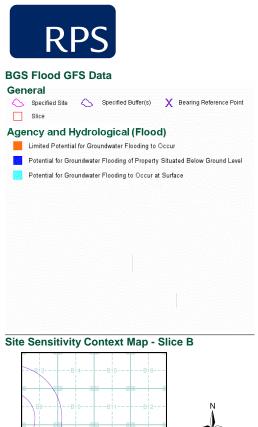
Page 3 of 6



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Order Details

152819812_1_1 JER1262 196950, 203650 Order Number: Customer Ref: National Grid Reference: 36.27

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

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



0844 844 9952 0844 844 9951

A Landmark Information Group Service v15.0 12-Jan-2018

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:

152819812_1_1

Customer Reference:

JER1262

National Grid Reference:

196950, 203650

Slice:

В

Site Area (Ha):

36.27

Search Buffer (m):

1000

Site Details:

Milford Haven Port Authority Captain Superintendents Building Admiralty Way, The Dockyard PEMBROKE DOCK SA72 6TD

Client Details:

Ms A Thomas RPS Consultants 260 Park Avenue Aztec West Almondsbury Bristol BS32 4SY







Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	7
Hazardous Substances	-
Geological	9
Industrial Land Use	11
Sensitive Land Use	21
Data Currency	22
Data Suppliers	26
Useful Contacts	27

Introduction

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

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

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Radon Potential dataset Copyright Notice

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

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	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2			7	1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4			2	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5			4	
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 6				1
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 6	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 6			2	



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	pg 7				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 7	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 7				1
Potentially Infilled Land (Non-Water)	pg 7				2
Potentially Infilled Land (Water)	pg 7		1	2	
Registered Landfill Sites	pg 7		1	1	
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 9	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 9	Yes	Yes		
BGS Recorded Mineral Sites	pg 9				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 9				1
Non Coal Mining Areas of Great Britain	pg 9	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 10	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 10	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 10	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 10	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 11			23	27
Fuel Station Entries	pg 15			1	1
Points of Interest - Commercial Services	pg 15			11	10
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 17			3	4
Points of Interest - Public Infrastructure	pg 18			3	10
Points of Interest - Recreational and Environmental	pg 19			2	7
Gas Pipelines					
Underground Electrical Cables					

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service



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	pg 21				1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 21	1			
Special Areas of Conservation	pg 21	1			
Special Protection Areas					
World Heritage Sites					

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	196200 203700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B5NW (SW)	0	1	196900 203550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev		0	1	196150 203850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	196450 203750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev		0	1	196650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	0	1	196600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	203645 196250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	203750 196150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	196400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	196150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	196500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	196100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	203800 196350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	203800 196450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	0	1	203650 196050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	4	1	196050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B9SW	14	1	196800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	vel (W)	33	1	196100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	48	1	196050 203400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Lev	rel (W)	67	1	196150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	77	1	195950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	81	1	203400 196100 203350

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility	(0)40	0.5	4	100050
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (SW)	85	1	196250 203300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (SW)	100	1	196200 203300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (SW)	123	1	196350 203250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (W)	127	1	196600 203700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (W)	163	1	196600 203550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel (W)	203	1	196600 203600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B9SW (NW)	216	1	196700 203750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B5NW (NW)	225	1	196947 203645
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B5NW (W)	234	1	196700 203645
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B5NW (W)	252	1	196700 203600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B9NW (NW)	343	1	196700 204050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B9SW (NW)	357	1	196750 204000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B9SW (NW)	383	1	196800 203950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B9SW (NW)	415	1	196850 203850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B9SW (N)	420	1	196947 203850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Le	vel B5SW (S)	480	1	196800 203200
1	Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lwr Meyrick St. Swo. Pemb Pem Authority: Natural Resources Wales Catchment Area: Boundary Of HA 61 & HA 62 Reference: Bp0066201 Permit Version: 2 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 19th October 1989 Discharge Type: Unspecified Discharge Environment: Receiving Water: Status: Milford Haven Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 a amended by Environment Act 1995)	B9SW (NW)	384	2	196760 203740

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Lwr Meyrick St.Swo.Pemb Pem Natural Resources Wales Boundary Of HA 61 & HA 62 Bp0066201 1 9th October 1987 9th October 1987 18th October 1989 Unspecified Not Supplied Milford Haven Authorisation revokedRevoked Located by supplier to within 10m	B9SW (NW)	384	2	196760 203740
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company (B)Meyrick St Swo Pembroke Dock, (B)Meyrick St Swo Pembroke Dock Natural Resources Wales Not Supplied Bp0209401 2 8th September 2010 8th September 2010 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven Varied under EPR 2010 Located by supplier to within 10m	B9SW (NW)	396	2	196770 203730
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company (B)Meyrick St Swo Pembroke Dock, (B)Meyrick St Swo Pembroke, Swo Pembroke Dock Natural Resources Wales Not Given BP0209401 1 19th October 1989 19th October 1989 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	B9SW (NW)	396	2	196770 203730
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Peter Hancock & Sons Ltd Domestic Property (Single) Building 130 Mr Hobbs Point Pier Rd, Mr Hobbs Point, Pier Road, Pembroke Dock Natural Resources Wales Not Given Bn0096801 1 8th November 1973 8th November 1973 31st October 1996 Unspecified Saline Estuary Milford Haven South Shore Lapsed (under Environment Act 1995, Schedule 23) Located by supplier to within 100m	B9NW (NW)	485	2	196700 204200

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
3	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Water St P'Broke Dk Swo Natural Resources Wales Not Supplied Bp0116201 2 8th September 2010 8th September 2010 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Llanion Pill, Milford Haven Varied under EPR 2010 Located by supplier to within 10m	B9SW (NW)	497	2	196880 203780
	Discharge Consent	s				
3	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Water St P'Broke Dk Swo Natural Resources Wales Not Given BP0116201 1 19th October 1989 19th October 1989 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Llanion Pill, Milford Haven New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	B9SW (NW)	497	2	196880 203780
	Discharge Consent	s				
4		Pembrokeshire County Council Domestic Property (Single) Pier House Hobbs Point Pembroke Do, Hobbs Point Pembroke Dock Natural Resources Wales Boundary Of HA 61 & HA 62 BH0071301 1 17th March 1967 17th March 1967 Not Supplied Unspecified Saline Estuary Milford Haven Estuary New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	B9SW (N)	527	2	196910 203890
5	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Adept Dry Cleaners 57 Bush Street, Pembroke Dock, Pembrokeshire, Sa72 6an Pembrokeshire County Council, Environmental Health Department EP/05/7.0(DC) 1st December 2006 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Manually positioned to the address or location	B5SW (SW)	456	3	196759 203339
		lution Prevention and Controls				
6	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Asda Service Station Criterion Way, Pembroke Dock, Pembrokeshire, Sa72 6da Pembrokeshire County Council, Environmental Health Department EP29/1.2 3rd March 2006 Local Authority Pollution Prevention and Control PG1/14 Petrol filling station Permitted Manually positioned to the address or location	B9SW (NW)	478	3	196864 203826

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	ution Prevention and Controls Pioneer Filling Station Maritime Industrial Estate, Pier Road, PEMBROKE DOCK, SA72 6DA Pembrokeshire County Council, Environmental Health Department Not Given Not Supplied Local Authority Air Pollution Control PG1/14 Petrol filling station Authorised Manually positioned within the geographical locality	B9SW (N)	567	3	196951 203872
8	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	ution Prevention and Controls Tesco Filling Station Bierspool, London Road, PEMBROKE DOCK, Dyfed, SA72 6BP Pembrokeshire County Council, Environmental Health Department EP/26/1.2(VR) 042428 16th March 2006 Local Authority Pollution Prevention and Control PG1/14 Petrol filling station Permitted Manually positioned to the address or location	B6NW (E)	979	3	197334 203573
	Nearest Surface Wa	ter Feature	(NW)	185	-	196602 204089
9	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given Summerfield Stores, Diamond Street, PEMBROKE DOCK Environment Agency, Welsh Region Chemicals - Other Inorganic Accident 25th June 1997 32743 Not Given Not Given Spillage Category 3 - Minor Incident Located by supplier to within 100m	B5NW (W)	333	4	196700 203700
9	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given Summerfield Stores, Diamond St, PEMBROKE DOCK Environment Agency, Welsh Region Chemicals - Other Inorganic Milford Haven; Spillage 25th June 1997 32743 Not Given Not Given Accidental Spillage/Leakage Category 3 - Minor Incident Located by supplier to within 100m	B5NW (W)	333	4	196700 203695
10	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given Hobbs Point Walkway, Laugharne Holiday Park Environment Agency, Welsh Region Crude Sewage Not Supplied 2nd August 1996 29313 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	B9NW (NW)	481	4	196700 204195
10	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given Hobbs Point Walkway, Leads Down To, Pontoon Environment Agency, Welsh Region Oils - Other Oil Not Supplied 2nd August 1996 29313 Not Given Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	B9NW (NW)	484	4	196705 204195

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Incident Date: 10t Incident Reference: 222 Water Impact: Car Air Impact: Car Land Impact: Car Positional Accuracy: Loc	atural Resources Wales th March 2004	B9SE (NE)	624	2	197006 203764
	Map Sheet: She	ility ot classified leet 34 Pembroke 100,000	B5NW (NW)	0	4	196878 203697
	woo woo Map Sheet: She	ility iils of High Leaching Potential (U) - Soil information for restored mineral orkings and urban areas is based on fewer observations than elsewhere. A post case vulnerability classification (H) assumed, until proved otherwise leet 34 Pembroke 100,000	B5NW (NW)	0	4	196947 203645
	Drift Deposits None Bedrock Aquifer Design	nations				
	Aquifer Designation: Pri		B5NW (NW)	0	1	196947 203645
	Superficial Aquifer Designation: Sec	i ignations condary Aquifer - Undifferentiated	B5NW (NW)	0	1	196917 203691
	Type: Ext	Rivers or Sea without Defences tent of Extreme Flooding from Rivers or Sea without Defences dal Models Supplied	B5NW (NE)	0	2	196949 203647
		tent of Flooding from Rivers or Sea without Defences dal Models	B5NW (NE)	0	2	196949 203647
	Areas Benefiting from F	Flood Defences				
	Flood Water Storage Ar None	reas				
	Flood Defences None					
12	OS Water Network Line Watercourse Form: Tid Watercourse Length: 12. Watercourse Level: On Permanent: Tru Watercourse Name: No Catchment Name: No Primacy: 1	dal river .5 n ground surface ue	B9SW (NW)	346	5	196718 203959
13	OS Water Network Line Watercourse Form: Inla Watercourse Level: On Permanent: Tru Watercourse Name: No Catchment Name: Mill Primacy: 1	and river) n ground surface ue	B9SW (NW)	358	5	196725 203963

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Not Supplied Pembroke Dock Bierspool Not Supplied As Supplied	B5NE (E)	946	2	197299 203565
	Local Authority Lan Name:	dfill Coverage Pembrokeshire County Council - Has supplied landfill data		0	3	196947 203645
15	Location: Reference: Authority: Last Reported Status: Types of Waste: Date of Closure:	Bierspool Tip, Pembroke Dock Not Supplied Pembrokeshire County Council, Environmental Health Department Closed Not Supplied Not Supplied Not Supplied Positioned by the supplier Moderate	B6NW (E)	986	3	197341 203575
16	Potentially Infilled L Bearing Ref: Use: Date of Mapping:	.and (Non-Water) SE Unknown Filled Ground (Pit, quarry etc) 1993	B5SE (SE)	925	-	197229 203301
17	Potentially Infilled L Bearing Ref: Use: Date of Mapping:	Land (Non-Water) E Unknown Filled Ground (Pit, quarry etc) 1993	B6NW (E)	980	-	197329 203541
18	Potentially Infilled L Use: Date of Mapping:	und (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1869	B5NW (W)	225	-	196774 203669
19	Potentially Infilled L Use: Date of Mapping:	.and (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1964	B5NW (NW)	343	-	196893 203691
20	Potentially Infilled L Use: Date of Mapping:	.and (Water) Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1869	B9SW (N)	392	-	196880 203830
21	Registered Landfill Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Govan Davis Developments Ltd WDL/3/85 Dry Dock & Part Of West Llanion Pill, Pembroke Dock, Pembrokeshire 196650 203730 Sunderland House, The Dockyard, Pembroke Dock, Pembrokeshire Environment Agency Wales, South West Area Landfill Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) No known restriction on source of waste Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st October 1986 Not Given Manually positioned to the road within the address or location	B5NW (W)	178	4	196746 203702

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Waste

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Landfill	Sites				
22	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence: Positional Accuracy: Boundary Accuracy: Authorised Waste Prohibited Waste	Old Dry Dock & Pill, Lower Meyrick Street, Pembroke Dock, Pembrokeshire 196700 203680 Sunderland House, The Dockyard, Pembroke Dock, Pembrokeshire Environment Agency Wales, South West Area Landfill Undefined No known restriction on source of waste Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st May 1983 Not Given Not Given Manually positioned to the address or location	B5NW (W)	336	4	196700 203680

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Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid	d Geology				
	Description:	Dinantian Rocks (Undifferentiated)	B5NW (NW)	0	1	196947 203645
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment <15 mg/kg <1.8 mg/kg 60 - 90 mg/kg	B5NW (NW)	0	1	196947 203645
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service Sediment no data <1.8 mg/kg no data	B9NW (NW)	9	1	196728 204127
23	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology:	County Intermediate School Pembroke, Pembroke Dock, Pembrokeshire British Geological Survey, National Geoscience Information Service 90736 Opencast Ceased Not Supplied Not Supplied Carboniferous Pembroke Limestone Group	B5SE (SE)	927	1	197230 203295
	Commodity: Positional Accuracy: BGS Measured Urba No data available BGS Urban Soil Che	Limestone Located by supplier to within 10m an Soil Chemistry				
	No data available	d 8				
	Coal Mining Affecte	not be affected by coal mining				
	Natural Cavities Easting: Northing: Distance: Quadrant Reference: Quadrant Reference: Bearing Ref: Cavity Type:	197300 203600 941 B5 NE E Solution Pipe Carboniferous Limestone	B5NE (E)	941	6	197300 203600
	Non Coal Mining Ar Risk:	Highly Unlikely	B5NW	0	1	196947
	Potential for Collaps Hazard Potential: Source:	British Geological Survey, National Geoscience Information Service sible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	203645 196917 203691
	Potential for Collaps Hazard Potential: Source:	sible Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
		essible Ground Stability Hazards Moderate British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196917 203691

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Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Comp	ressible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	196958 203568
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	B9SE (N)	27	1	197002 203817
	Potential for Ground Dissolution Stability Hazards					
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	B5SW (S)	46	1	196845 203118
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	High British Geological Survey, National Geoscience Information Service	B5SW (S)	82	1	196874 203194
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	B5SW (S)	91	1	196845 203118
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196917 203691
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B5SW (S)	0	1	196845 203118
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196917 203691
	Potential for Shrink	ring or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Radon Potential - R	Radon Affected Areas				
	Affected Area:	The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	B5NW (NW)	0	1	196947 203645
	Source:	<u> </u>				
		Radon Protection Measures Full radon protective measures are necessary in the construction of new dwellings or extensions	B5NW	0	1	196947
	Source:	dwellings or extensions British Geological Survey, National Geoscience Information Service	(NW)			203645

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	le Directory Entries				
24	Name: Location: Classification: Status: Positional Accuracy:	Bliss Cleaning Maisonette, 40, Queen Street, Pembroke Dock, Dyfed, SA72 6JE Cleaning Services - Domestic Inactive Automatically positioned to the address	B5NW (W)	336	-	196676 203550
	Contemporary Trad	le Directory Entries				
24	Name: Location: Classification: Status:	Carpet & Upholstery Cleaning 46, Queen Street, Pembroke Dock, SA72 6JE Carpet, Curtain & Upholstery Cleaners Active Automatically positioned to the address	B5NW (W)	355	-	196695 203549
	Contemporary Trad	le Directory Entries				
25	Name: Location: Classification: Status: Positional Accuracy:	Modern Print Meyrick Street, Pembroke Dock, Dyfed, SA72 6JD Printers Inactive Automatically positioned to the address	B5NW (W)	365	-	196715 203604
	Contemporary Trad	le Directory Entries				
26	Name: Location: Classification: Status: Positional Accuracy:	Jewson Ltd 4, Meyrick Street, Pembroke Dock, Dyfed, SA72 6UT Builders' Merchants Inactive Automatically positioned to the address	B5NW (SW)	369	-	196699 203492
	Contemporary Trad	le Directory Entries				
27	Name: Location:	Kate Clarkson Unit A10, Maritime Industrial Park, Criterion Way, Pembroke Dock, Dyfed, SA72 6UL	B9SW (NW)	432	-	196781 204006
	Classification: Status: Positional Accuracy:	Clothing & Fabrics - Manufacturers Inactive Automatically positioned to the address				
	Contemporary Trad					
27	Name: Location: Classification: Status:	E R C Engineering Unit B4,Maritime Ind Pk,Criterion Way, Pembroke Dock, Dyfed, SA72 6UL Engineering Machine Services Inactive Manually positioned within the geographical locality	B9SW (NW)	438	-	196793 203992
	Contemporary Trad					
27	Name: Location:	Slipscreens Ltd Unit B2, Maritime Industrial Park, Criterion Way, Pembroke Dock, Dyfed, SA72 6UL	B9SW (N)	454	-	196796 204025
	Classification: Status: Positional Accuracy:	Cycle Accessories, Manufacturers & Wholesalers Inactive Automatically positioned to the address				
	Contemporary Trad	le Directory Entries				
27	Name: Location: Classification: Status: Positional Accuracy:	Horizon Blinds Maritime Industrial Park, Criterion Way, Pembroke Dock, Dyfed, SA72 6UL Blinds, Awnings & Canopies Inactive Automatically positioned to the address	B9SW (N)	470	-	196821 204008
	Contemporary Trad					
28	Name: Location: Classification: Status:	Pembroke Dock 13-15, Dimond Street, Pembroke Dock, Dyfed, SA72 6JA Hardware Inactive Automatically positioned to the address	B5NW (SW)	444	-	196788 203564
	Contemporary Trad	le Directory Entries				
28	Name: Location: Classification: Status: Positional Accuracy:	Get Connected Uk Ltd 16, Dimond Street, Pembroke Dock, SA72 6AH Mobile Phone Accessories and Car Kits Active Automatically positioned to the address	B5NW (SW)	444	-	196783 203535
	Contemporary Trad	• • • • • • • • • • • • • • • • • • • •				
29	Name: Location: Classification: Status:	Computer Direct 14, Haven Workshops, Pier Road, Pembroke Dock, Dyfed, SA72 6TR Computer Manufacturers Inactive Automatically positioned to the address	B9NW (NW)	446	-	196751 204087

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Contemporary Trad Name: Location: Classification: Status:	Pembrokeshire Stained Glass Ltd Unit 11-12, Haven Workshops, Pier Road, Pembroke Dock, SA72 6TR Stained Glass Designers & Producers Active	B9NW (NW)	446	-	196751 204087
29	Contemporary Trade Name: Location: Classification: Status:	Automatically positioned to the address e Directory Entries A & C John Unit 12, Haven Workshops, Pier Road, Pembroke Dock, Dyfed, SA72 6TR Road Haulage Services Inactive Automatically positioned to the address	B9NW (NW)	446	-	196751 204087
30	Contemporary Trad Name: Location: Classification: Status:		B5SW (SW)	449	-	196722 203214
31	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Adept Dry Cleaners 57, Bush Street, Pembroke Dock, Dyfed, SA72 6AN Dry Cleaners Active Automatically positioned to the address	B5SW (SW)	455	-	196759 203339
31	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Treen Box 61, Bush Street, Pembroke Dock, Dyfed, SA72 6AN Antiques - Repairing & Restoring Inactive Automatically positioned to the address	B5SW (SW)	471	-	196775 203342
32	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries B O C Gases Ltd Maritime Industrial Park, Criterion Way, Pembroke Dock, Dyfed, SA72 6UL Gas Suppliers Active Automatically positioned to the address	B9SW (N)	460	-	196830 203951
32	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Kevin Rees Unit B3,Maritime Ind Pk,Criterion Way, Pembroke Dock, Dyfed, SA72 6UL Wrought Ironwork Inactive Manually positioned within the geographical locality	B9SW (N)	460	-	196830 203951
32	Contemporary Trad Name: Location: Classification: Status:		B9SW (N)	473	-	196832 203989
32	Contemporary Trad Name: Location: Classification: Status:		B9SW (N)	481	-	196855 203940
33	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Asda Petrol Gordon Street, Pembroke Dock, Dyfed, SA72 6DA Petrol Filling Stations Active Automatically positioned to the address	B5NW (NW)	469	-	196841 203709
34	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries H L Fielding & Sons Ltd Unit 1, Haven Workshops, Pier Road, PEMBROKE DOCK, Dyfed, SA72 6TR Electrical Engineers Inactive Automatically positioned to the address	B9NW (N)	483	-	196803 204073

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	le Directory Entries				
35	Name: Location: Classification: Status: Positional Accuracy:	Just Wood Unit 4, Haven Workshops, Pier Road, Pembroke Dock, Dyfed, SA72 6TR Furniture Manufacturers - Home & Office Inactive Automatically positioned to the address	B9SW (N)	496	-	196835 204041
	Contemporary Trad	le Directory Entries				
35	Name: Location: Classification: Status: Positional Accuracy:	Pier Engineering Unit 7, Haven Workshops, Pier Road, Pembroke Dock, SA72 6TR Mechanical Engineers Active Automatically positioned to the address	B9SW (N)	509	-	196862 204013
	Contemporary Trad	le Directory Entries				
35	Name: Location: Classification: Status:	Millforge Ltd 1, Stockwell Road, Pembroke Dock, SA72 6TQ Garage Services Active Automatically positioned to the address	B9NW (N)	516	-	196854 204049
	Contemporary Trad	le Directory Entries				
36	Name: Location: Classification: Status: Positional Accuracy:	Heritage Preservations 3, Lewis Street, Pembroke Dock, Dyfed, SA72 6DD Damp & Dry Rot Control Inactive Automatically positioned to the address	B5NW (SW)	505	-	196835 203485
	Contemporary Trad	le Directory Entries				
37	Name: Location: Classification: Status: Positional Accuracy:	Pembroke Wash Vac Centre 66, Bush Street, Pembroke Dock, Dyfed, SA72 6DE Domestic Appliances - Servicing, Repairs & Parts Inactive Automatically positioned to the address	B5SW (S)	558	-	196854 203291
	Contemporary Trad	le Directory Entries				
38	Name: Location: Classification: Status:	Alliance Lifting Services Ltd Unit 95, Stockwell Road, Pembroke Dock, Dyfed, SA72 6TQ Lifting Equipment Active Automatically positioned to the address	B9SW (N)	562	-	196905 204045
	Contemporary Trad	**				
38	Name: Location: Classification: Status:	A J Garage Sunderland House, Stockwell Road, Pembroke Dock, Dyfed, SA72 6TQ Garage Services Inactive Automatically positioned in the proximity of the address	B9SW (N)	564	-	196908 204044
	Contemporary Trad	le Directory Entries				
38	Name: Location: Classification: Status: Positional Accuracy:	Busby Holdings Ltd Unit 3, Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, Dyfed, SA72 6TZ Mechanical Engineers Inactive Automatically positioned to the address	B9SW (N)	583	-	196932 204036
	Contemporary Trad	le Directory Entries				
39	Name: Location: Classification: Status:	Park Leisure Uk 39, Dimond Street, Pembroke Dock, Dyfed, SA72 6BT Caravan Dealers & Manufacturers Inactive Automatically positioned to the address	B5NW (S)	567	-	196910 203543
	Contemporary Trad	le Directory Entries				
40	Name: Location: Classification: Status:	Mr Roberts 19, Laws Street, Pembroke Dock, SA72 6DJ Clothing & Fabrics - Manufacturers Inactive Automatically positioned to the address	B5NW (S)	588	-	196915 203459
	Contemporary Trad	le Directory Entries				
41	Name: Location: Classification: Status:	Wilkinson Hardware Stores Ltd Pier Road, Pembroke Dock, SA72 6TR Hardware Active Automatically positioned to the address	B9SE (N)	607	-	196985 203927

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	e Directory Entries				
42	Name: Location: Classification: Status: Positional Accuracy:	A1 Scrubbers 6, London Road, Pembroke Dock, Dyfed, SA72 6DU Cleaning Services - Domestic Inactive Automatically positioned to the address	B9SE (NE)	646	-	197030 203781
	Contemporary Trad	e Directory Entries				
42	Name: Location: Classification: Status:	Quiet Revolutions Manufacturing 13, London Road, Pembroke Dock, Dyfed, SA72 6DS Manufacturers Inactive Automatically positioned to the address	B9SE (NE)	652	-	197031 203739
	Contemporary Trad	e Directory Entries				
43	Name: Location: Classification: Status: Positional Accuracy:	Paul'S Appliance Repairs 102, Gwyther Street, Pembroke Dock, Dyfed, SA72 6HD Domestic Appliances - Servicing, Repairs & Parts Active Automatically positioned to the address	B5SW (S)	655	-	196908 203125
	Contemporary Trad	e Directory Entries				
44	Name: Location: Classification: Status: Positional Accuracy:	R S T Pembroke Ltd Pembroke Dock, SA72 6TZ Garage Services Active Automatically positioned to the address	B9NE (N)	671	-	196991 204120
	Contemporary Trad	e Directory Entries				
44	Name: Location:	Kitbar Equipment Wales Unit 3, Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, Dyfed, SA72 6TZ	B9NE (N)	671	-	196998 204107
	Classification: Status: Positional Accuracy:	Catering Equipment Active Automatically positioned to the address				
	Contemporary Trad	e Directory Entries				
44	Name: Location: Classification: Status: Positional Accuracy:	Gb Nametapes Unit 4,Llannion Pk Ind Est,Richmond Rd, Pembroke Dock, Dyfed, SA72 6TZ Textile Manufacturing Inactive Manually positioned to the address or location	B9NE (N)	677	-	197006 204103
	Contemporary Trad					
44	Name: Location: Classification: Status:	P F F Machinery Unit 4,Llannion Pk Ind Est,Richmond Rd, Pembroke Dock, Dyfed, SA72 6TZ Plant & Machinery Repairs Inactive Manually positioned to the address or location	B9NE (N)	678	-	197006 204104
	Contemporary Trad	e Directory Entries				
44	Name: Location: Classification: Status: Positional Accuracy:	G A C Shipping Uk Ltd Osprey House, Richmond Road, Pembroke Dock, SA72 6TS Freight Forwarders Inactive Automatically positioned to the address	B9NE (N)	723	-	197039 204140
	Contemporary Trad	e Directory Entries				
45	Name: Location: Classification: Status: Positional Accuracy:	1st Choice Finesse Blinds Unit 13,Llannion Pk Ind Est,Richmond Rd, Pembroke Dock, Dyfed, SA72 6TZ Blinds, Awnings & Canopies Inactive Manually positioned to the address or location	B9NE (N)	705	-	197056 204050
	Contemporary Trad	··				
45	Name: Location: Classification: Status:	Finesse Blinds Finesse Blinds Unit 13,Llannion Pk Ind Est,Richmond Rd, Pembroke Dock, Dyfed, SA72 6TZ Blinds, Awnings & Canopies Inactive Manually positioned within the geographical locality	B9SE (N)	705	-	197061 204033
	Contemporary Trad	e Directory Entries				
45	Name: Location: Classification: Status:	Inspectorate International Ltd Inspectorate House, Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, Dyfed, SA72 6TZ Cargo Handling Services Active	B9NE (N)	728	-	197054 204119
	Positional Accuracy:	Automatically positioned to the address				

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	le Directory Entries				
45	Name: Location: Classification:	Andrew Milward Joinery Unit 22 Richmond Road,Llannion Park Industrial Estate, Pembroke Dock, Dyfed, SA72 6TZ Joinery Manufacturers	B9NE (N)	728	-	197068 204086
	Status:	Active Manually positioned to the address or location				
	Contemporary Trad					
45	Name: Location: Classification: Status:	Maguire Pumps Ltd Unit 21, Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, Dyfed, SA72 6TZ Pumps - Sales, Servicing & Repairs Inactive Automatically positioned to the address	B9NE (N)	732	-	197076 204075
	Contemporary Trad	le Directory Entries				
46	Name: Location: Classification: Status: Positional Accuracy:	T Car Sales London Road, Pembroke Dock, Dyfed, SA72 6DS Car Dealers Active Manually positioned to the road within the address or location	B5NE (E)	787	-	197158 203679
	Contemporary Trad					
47	Name: Location: Classification: Status:	Bierspool Autofill London Rd, Pembroke Dock, Dyfed, SA72 6DT Petrol Filling Stations - 24 Hour Inactive Manually positioned to the road within the address or location	B5NE (E)	842	-	197211 203664
	Contemporary Trad					
48	Name: Location: Classification: Status:	Tesco Petrol Filling Station Bierspool, London Road, Pembroke Dock, Dyfed, SA72 6BP Petrol Filling Stations - 24 Hour Inactive Automatically positioned to the address	B5NE (E)	916	-	197267 203558
	Contemporary Trad	le Directory Entries				
49	Name: Location: Classification: Status: Positional Accuracy:	Angela'S Cleaning Services 15, Essex Road, Pembroke Dock, Dyfed, SA72 6ED Commercial Cleaning Services Active Automatically positioned to the address	B9NE (NE)	974	-	197273 204234
	Fuel Station Entries	· · · · · · · · · · · · · · · · · · ·				
50	Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Asda Pembroke Dock Western Way, Pembroke Dock, Pembrokeshire, SA72 6DA Asda Hypermarket Open Manually positioned to the address or location	B9SW (NW)	479	-	196865 203824
	Fuel Station Entries	· · · · · · · · · · · · · · · · · · ·				
51	Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Tesco Pembroke Dock London Road, Pembroke Dock, Pembrokeshire, SA72 6DS TESCO Hypermarket Open Manually positioned to the address or location	B6NW (E)	981	-	197336 203573
	Points of Interest -	Commercial Services				
52	Name: Location: Category: Class Code: Positional Accuracy:	K Rees Unit A8 Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Construction Services Metalworkers Including Blacksmiths Positioned to address or location	B9SW (NW)	431	7	196776 204014
	Points of Interest -	Commercial Services				
52	Name: Location: Category: Class Code: Positional Accuracy:	A & C John Unit 12 Haven Workshops, Pier Road, Pembroke Dock, SA72 6TR Transport, Storage and Delivery Distribution and Haulage Positioned to address or location	B9NW (NW)	446	7	196751 204087
	Points of Interest -	Commercial Services				
52	Name: Location: Category: Class Code: Positional Accuracy:	Denholm Barwil Ground Floor Room G7 Pier House, Pier Road, Pembroke Dock, SA72 6TR Transport, Storage and Delivery Distribution and Haulage Positioned to address or location	B9NW (NW)	466	7	196747 204126

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Kevin Rees Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Construction Services Metalworkers Including Blacksmiths Positioned to address or location	B9SW (N)	470	7	196821 204008
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Criterion Motor Repairs Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	B9SW (N)	474	7	196848 203935
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Haven Car Valeting Unit C1 Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B9SW (N)	483	7	196840 203995
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Haven Car Valeting Unit C1 Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B9SW (N)	483	7	196840 203995
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Criterion Motor Repairs Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	B9SW (N)	483	7	196856 203942
	Points of Interest -	Commercial Services				
53	Name: Location: Category: Class Code: Positional Accuracy:	Haven Car Valeting Unit C1 Maritime Industrial Park, Criterion Way, Pembroke Dock, SA72 6UL Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B9SW (N)	483	7	196840 203995
	Points of Interest -	Commercial Services				
54	Name: Location: Category: Class Code: Positional Accuracy:	Asda Pembroke Dock Western, Way, Pembroke Dock, Pembrokeshire, SA72 6DA Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B9SW (NW)	479	7	196865 203824
	Points of Interest -	Commercial Services				
54	Name: Location: Category: Class Code: Positional Accuracy:	Car Wash Western Way, Pembroke Dock, Pembrokeshire, SA72 6DA Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B9SW (NW)	479	7	196865 203824
	Points of Interest -	Commercial Services				
55	Name: Location: Category: Class Code: Positional Accuracy:	Millforge Ltd Stockwell Road, Pembroke Dock, SA72 6TQ Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	B9SW (N)	615	7	196965 204038
	Points of Interest -	Commercial Services				
55	Name: Location: Category: Class Code: Positional Accuracy:	Millforge Ltd Stockwell Road, Pembroke Dock, SA72 6TQ Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	B9SW (N)	615	7	196965 204038
	Points of Interest -	Commercial Services				
55	Name: Location: Category: Class Code: Positional Accuracy:	R S T Pembroke Ltd Unit 6 Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, SA72 6TZ Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location	B9NE (N)	678	7	197013 204088

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Points of Interest -	Commercial Services				
55	Name: Location:	Autoglass Unit 6 Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, SA72 6TZ	B9NE (N)	679	7	197014 204088
	Category: Class Code: Positional Accuracy:	Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location				
	Points of Interest -	Commercial Services				
55	Name: Location:	R S T Pembroke Ltd Unit 6 Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, SA72 6TZ	B9NE (N)	679	7	197014 204088
	Category: Class Code: Positional Accuracy:	Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location				
	Points of Interest -	Commercial Services				
56	Name: Location:	Llanion Garage Unit 17 West Llanion Centre Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, SA72 6TZ	B9SE (N)	705	7	197061 204033
	Category: Class Code: Positional Accuracy:	Repair and Servicing Vehicle Repair, Testing and Servicing Positioned to address or location				
	Points of Interest -	Commercial Services				
57	Name: Location: Category: Class Code: Positional Accuracy:	G A C Services UK Ltd Osprey House, Richmond Road, Pembroke Dock, SA72 6TS Transport, Storage and Delivery Distribution and Haulage Positioned to address or location	B9NE (N)	721	7	197038 204139
	Points of Interest -	Commercial Services				
57	Name: Location:	Inspectorate International Ltd Inspectorate House Llannion Park Industrial Estate, Richmond Road, Pembroke Dock, SA72 6TZ	B9NE (N)	727	7	197054 204118
	Category: Class Code: Positional Accuracy:	Transport, Storage and Delivery Distribution and Haulage Positioned to address or location				
	Points of Interest -	Commercial Services				
58	Name: Location: Category: Class Code: Positional Accuracy:	Tesco Pembroke Dock London, Road, Pembroke Dock, Pembrokeshire, SA72 6DS Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B6NW (E)	981	7	197336 203573
	Points of Interest -	Commercial Services				
58	Name: Location: Category: Class Code: Positional Accuracy:	Car Wash London Road, Pembroke Dock, Pembrokeshire, SA72 6DS Personal, Consumer and other Services Vehicle Cleaning Services Positioned to address or location	B6NW (E)	981	7	197336 203573
	Points of Interest -	Manufacturing and Production				
59	Name: Location: Category: Class Code: Positional Accuracy:	Tank SA72 Industrial Features Tanks (Generic) Positioned to address or location	B9NW (NW)	408	7	196670 204123
		Manufacturing and Production				
59	Name:	Tanks	B9NW	413	7	196680
	Location: Category: Class Code: Positional Accuracy:	SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	(NW)			204121
		Manufacturing and Production				
60	Name:	Maritime Industrial Park	B9SW	452	7	196808
	Location: Category: Class Code: Positional Accuracy:	SA72 Industrial Features Business Parks and Industrial Estates Positioned to an adjacent address or location	(N)			203992
	-	Manufacturing and Production				
60	Name: Location: Category:	Haven Workshops Not Supplied Industrial Features	B9SW (N)	503	7	196842 204043
	Class Code:	Unspecified Works Or Factories Positioned to an adjacent address or location				

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60	Name: Location: Category: Class Code:	Manufacturing and Production Haven Workshops SA72 Industrial Features Unspecified Works Or Factories Positioned to an adjacent address or location	B9SW (N)	503	7	196842 204042
61	Name: Location: Category: Class Code:	Manufacturing and Production West Llanion Park Industrial Estate SA72 Industrial Features Business Parks and Industrial Estates Positioned to an adjacent address or location	B9NE (N)	710	7	197057 204064
62	Name: Location: Category: Class Code:	Manufacturing and Production Tanks SA72 Industrial Features Tanks (Generic) Positioned to an adjacent address or location	B5NE (SE)	735	7	197088 203584
63	Name: Location: Category: Class Code:	Public Infrastructure Outfall SA72 Infrastructure and Facilities Waste Storage, Processing and Disposal Positioned to an adjacent address or location	B9SW (NW)	325	7	196701 203749
64	Name: Location: Category: Class Code:	Public Infrastructure Asda Petrol Gordon, Street, Pembroke Dock, SA72 6DA Road And Rail Petrol and Fuel Stations Positioned to address or location	B9SW (NW)	479	7	196865 203826
64	Name: Location: Category: Class Code:	Public Infrastructure Asda Pembroke Dock Western Way, Pembroke Dock, Pembrokeshire, SA72 6DA Road And Rail Petrol and Fuel Stations Positioned to address or location	B9SW (NW)	479	7	196865 203824
65	Name: Location: Category: Class Code:	Public Infrastructure Dyfed-Powys Constabulary Pembroke Dock Police Station 4, Water Street, Pembroke Dock, SA72 6DW Central and Local Government Police Stations Positioned to address or location	B5NW (NE)	600	7	196970 203689
65	Name: Location: Category: Class Code:	Public Infrastructure Pembroke Dock Police Station 4 Water Street, Pembroke Dock, SA72 6DW Central and Local Government Police Stations Positioned to address or location	B5NW (NE)	600	7	196970 203688
66	Name: Location: Category: Class Code:	Public Infrastructure Pembroke Dock Rail Station SA72 Public Transport, Stations and Infrastructure Railway Stations, Junctions and Halts Positioned to address or location	B5NE (SE)	691	7	197035 203540
66	Name: Location: Category: Class Code:	Public Infrastructure Pembroke Dock Station Apley Terrace, SA72 Public Transport, Stations and Infrastructure Railway Stations, Junctions and Halts Positioned to address or location	B5NE (SE)	691	7	197035 203540
67	Name: Location: Category: Class Code:	Public Infrastructure Pembroke Dock Fire Station High Street, Pembroke Dock, SA72 6NU Central and Local Government Fire Brigade Stations Positioned to address or location	B1NW (S)	701	7	196806 202886
68	Name: Location: Category: Class Code:	Public Infrastructure Tesco Petrol Filling Station Bierspool, London Road, Pembroke Dock, SA72 6BP Road And Rail Petrol and Fuel Stations Positioned to address or location	B5NE (E)	916	7	197267 203558

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Name: Location: Category: Class Code:	Public Infrastructure Tesco Filling Station London Road, Pembroke Dock, SA72 6DT Road And Rail Petrol and Fuel Stations Positioned to address or location	B6NW (E)	979	7	197334 203572
68	Name: Location: Category: Class Code:	Public Infrastructure Tesco Pembroke Dock London, Road, Pembroke Dock, Pembrokeshire, SA72 6DS Road And Rail Petrol and Fuel Stations Positioned to address or location	B6NW (E)	981	7	197336 203573
69	Name: Location: Category: Class Code:	Public Infrastructure Cemetery (Military) SA72 Infrastructure and Facilities Cemeteries and Crematoria Positioned to an adjacent address or location	B10SW (NE)	990	7	197375 203869
69	Name: Location: Category: Class Code:	Public Infrastructure Cemetery (Military) Not Supplied Infrastructure and Facilities Cemeteries and Crematoria Positioned to an adjacent address or location	B10SW (NE)	991	7	197376 203868
70	Name: Location: Category: Class Code:	Recreational and Environmental Playground Criterion Way, SA72 Recreational Playgrounds Positioned to address or location	B9SW (NW)	406	7	196792 203844
70	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	B9SW (NW)	407	7	196793 203845
71	Name: Location: Category: Class Code:	Recreational and Environmental Play Area Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	B5SE (S)	837	7	197117 203182
71	Name: Location: Category: Class Code:	Recreational and Environmental Play Area Nr Bush Street, SA72 Recreational Playgrounds Positioned to an adjacent address or location	B5SE (S)	837	7	197117 203182
72	Name: Location: Category: Class Code:	Recreational and Environmental Playground SA72 Recreational Playgrounds Positioned to an adjacent address or location	B1NW (S)	848	7	196906 202778
72	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	B1NW (S)	853	7	196913 202778
73	Name: Location: Category: Class Code:	Recreational and Environmental Playground Not Supplied Recreational Playgrounds Positioned to an adjacent address or location	B5SE (SE)	916	7	197223 203318
73	Name: Location: Category: Class Code:	Recreational and Environmental Playground Trinity Road, SA72 Recreational Playgrounds Positioned to an adjacent address or location	B5SE (SE)	916	7	197223 203318

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Points of Interest - Recreational and Environmental				
74	Name: Playground Location: Charles Thomas Avenue, SA72 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	B5NE (E)	927	7	197297 203659

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Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Environmentally Se	ensitive Areas				
75	Name: Multiple Areas: Total Area (m2): Source:	Preseli (decommissioned) Y 1187932672 The National Assembly for Wales, GI Services (Department of Planning & Countryside)	B13NW (N)	895	8	196670 204779
	Sites of Special Sci	entific Interest				
76	Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Milford Haven Waterway Y 21920694.53 Natural Resources Wales 28232wp3 Mixed Biological And Geological 4th March 1993 Notified	(W)	0	2	195712 204040
	Special Areas of Co	onservation				
77	Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Pembrokeshire Marine / Sir Benfro Forol Y 1380663657.58 Natural Resources Wales Uk0013116 Designated	B9NW (N)	0	2	196910 204157

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Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Pembrokeshire County Council - Public Protection Division	December 2015	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	August 2017	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	As notified
ntegrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Not Applicable
ntegrated Pollution Prevention And Control		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
ocal Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	December 2015	Annual Rolling Updat
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Updat
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	December 2015	Annual Rolling Updat
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Registered Radioactive Substances		
Natural Resources Wales	January 2015	As notified
Environment Agency - Welsh Region	January 2015	
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Nater Abstractions		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Nater Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Natural Resources Wales	November 2016	As notified
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	November 2017	Quarterly

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 22 of 27



Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences	N 1 2017	0
Natural Resources Wales	November 2017	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2017	Quarterly
	November 2017	Quarterly
Flood Water Storage Areas Natural Resources Wales	November 2017	Quarterly
Flood Defences		
Natural Resources Wales	November 2017	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent		
Natural Resources Wales	October 2013	As notified
Surface Water 1 in 100 year Flood Extent		
Natural Resources Wales	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent		
Natural Resources Wales	October 2013	As notified
Surface Water Suitability		
Natural Resources Wales	October 2013	As notified
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South West Area	October 2017	Quarterly
Natural Resources Wales	October 2017	Quarterly
Licensed Waste Management Facilities (Locations)	0	
Environment Agency Wales - South West Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
	October 2017	Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	May 2000	Not Applicable
	Iviay 2000	140t Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	May 2000	Not Applicable
	Iviay 2000	140t Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)	200111001 1000	1101 / Ippliodolo
otomiany mimou Lana (Water)	December 1999	Not Applicable
, ,		
Landmark Information Group Limited		
Landmark Information Group Limited Registered Landfill Sites	March 2003	Not Applicable
Landmark Information Group Limited Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Landmark Information Group Limited Registered Landfill Sites Environment Agency Wales - South West Area Registered Waste Transfer Sites	March 2003 March 2003	
Landmark Information Group Limited Registered Landfill Sites Environment Agency Wales - South West Area		Not Applicable Not Applicable

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 23 of 27



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites	March 2017	Bi-Annually
Health and Safety Executive Notification of Installations Handling Hazardous Substances (NIHHS)	IVIAICII 2017	Di-Ariffually
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Annual Rolling Update
Pembrokeshire County Council - Planning Department	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Annual Rolling Update
Pembrokeshire County Council - Planning Department	October 2015	Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites	October 2013	As notined
British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
CBSCB Compensation District		2.7
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	As notified
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards	luna 2015	Annually
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards	04110 2010	7 iiiidaiiy
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards		,
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 24 of 27



Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	November 2017	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines		
National Grid	July 2014	Quarterly
Points of Interest - Commercial Services		
PointX	December 2017	Quarterly
Points of Interest - Education and Health		
PointX	December 2017	Quarterly
Points of Interest - Manufacturing and Production		
PointX	December 2017	Quarterly
Points of Interest - Public Infrastructure		
PointX	December 2017	Quarterly
Points of Interest - Recreational and Environmental		
PointX	December 2017	Quarterly
Underground Electrical Cables		
National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland	_	
Natural Resources Wales	October 2017	Bi-Annually
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2017	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2017	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2017	Bi-Annually
National Nature Reserves		
Natural Resources Wales	August 2017	Bi-Annually
National Parks		,
Natural Resources Wales	August 2017	Annually
Nitrate Vulnerable Zones	7.090012011	7
Natural Resources Wales	July 2017	Bi-Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Di 7 miladily
Ramsar Sites	23.020. 2000	
Natural Resources Wales	August 2017	Bi-Annually
Sites of Special Scientific Interest		,
Natural Resources Wales	August 2017	Bi-Annually
Special Areas of Conservation	1.25201.	2.7.41100119
Natural Resources Wales	August 2017	Bi-Annually
	August 2017	Di-Allitually
Special Protection Areas	A	F31 A
Natural Resources Wales	August 2017	Bi-Annually

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 25 of 27



Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE யில்தி
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	peterbrett

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 26 of 27



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Pembrokeshire County Council - Environmental Health Department Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	The National Assembly for Wales - GI Services (Department of Planning & Countryside) Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Order Number: 152819812_1_1 Date: 12-Jan-2018 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 27 of 27

Historical Mapping Legends

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

····· Civil Parish Boundary

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

ولاستسم	Chalk Pit, Clay I or Quarry	Pit 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Gravel Pit
	Sand Pit		Disused Pit or Quarry
(0.0000)	Refuse or Slag Heap	@	Lake, Loch or Pond
	Dunes	000	Boulders
* * *	Coniferous Trees	۵ ₀	Non-Coniferous Trees
ቀ ቀ	Orchard Ωn_	Scrub	\Y₁v Coppice
។ ជ	Bracken	· Heath	、、 , , , , Rough Grassland
<u> </u>	- Marsh	, Reeds	<u>⊸</u> ≗_ Saltings
	Di Building	rection of Flow o	Shingle
	Glasshouse		Sand
	Sloping Masonry	Pylon	Electricity Transmission Line
Cutting	Emban	kment	Standard Gauge " Multiple Track
Road ' Under	⊔ ''□''' Road / L	evel Foot	∃⊨ Standard Gauge Single Track
			Siding, Tramway or Mineral Line
			→ Narrow Gauge
	Geographical	County	
	— — Administrative or County of C	e County, County City	Borough
	Municipal Bor Burgh or Dist	ough, Urban or F rict Council	Rural District,
		gh or County Co	
	Civil Parish Shown alternate	ly when coincidence	e of boundaries occurs
DD 00	Boundan, Boot or Ct	Dal Ct-	Dalias Station
BP, BS Ch	Boundary Post or Stone Church	Pol Sta	Police Station Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB -	Foot Bridge	SB	Signal Box
Fn CB	Fountain	Spr	Spring
GP MP	Guide Post Mile Post	TCB TCP	Telephone Call Box Telephone Call Post
MC	Mile Post	TCP	Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock	3	Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
********	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
_ • _ •	County boundary (England only) District, Unitary,	• • • • •	Ci∨il, parish or community boundary
	Metropolitan, London Borough boundary		Constituency boundary
۵ ^۵	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
<i>۵</i>	Non-coniferous trees (scattered)	**	Coniferous trees
*	Coniferous trees (scattered)	Ÿ	Positioned tree
Ф Ф Ф	Orchard	* *	Coppice or Osiers
affr,	Rough Grassland	www.	Heath
On_	Scrub	¬ <u>₩</u> ۲	Marsh, Salt Marsh or Reeds
4	Water feature	←	Flow arrows
MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs)
-••-	Telephone line (where shown)		Electricity transmission line (with poles)
← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
•	Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare stack or lighting tower
•‡•	Site of (antiquity)		Glasshouse
	General Building		Important

General Building

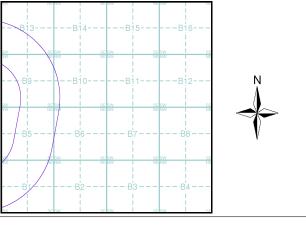
Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1869	3
Pembrokeshire	1:10,560	1909	4
Pembroke	1:10,000	1950	5
Pembrokeshire	1:10,560	1953	6
Ordnance Survey Plan	1:10,000	1964	7
Ordnance Survey Plan	1:10,000	1966	8
Ordnance Survey Plan	1:10,000	1971 - 1975	9
Ordnance Survey Plan	1:10,000	1985	10
Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2017	14

Historical Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650 Slice:

Site Area (Ha):

36.27 Search Buffer (m): 1000

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

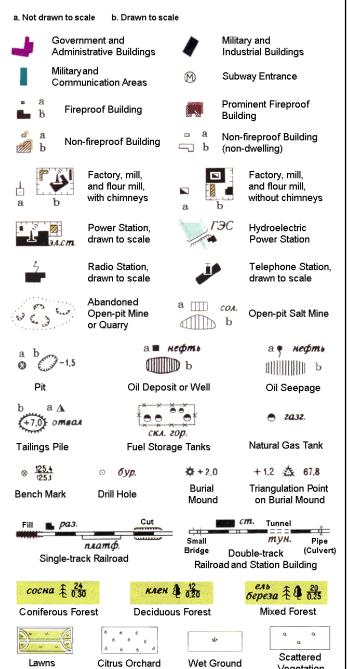


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A Landmark Information Group Service v50.0 12-Jan-2018 Page 1 of 14

Russian Military Mapping Legends

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



243,8

186.0

0,2

A a (A)

Бб (в)

B B (V)

Γr (G)

Дд(D)

E e (E)

Ë ë (YO)

Ж ж (ZH)

Values for prominent elevations

the diameter of trees

3 3 (Z)

Ии(I)

Йй(Y)

K K (K)

Лл(L)

M m (m)

H H (N)

O o (o)

Numbers for spot elevations, depth soundings,

Russian Alphabet (Forreference and phonetic interpretation of map text)

Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of

fords and condition of the river bottom; height of forest and

Пп(Р)

P p (R)

C c (s)

T T (T)

y y (U)

Фф(F)

Цц(тѕ)

Хх (кн) Ээ (е)

Vegetation

Чч (СН)

ъ (–)

ы (Y)

Шш (SH)

Щ щ (SHCH)

Юю (YU or IU) A (YA or IA)

1:25,000 mapping

	a. Not drawn to	scale b. Drawn to sca	le	
		overnment and dministrative Buildings		ilitary and dustrial Buildings
		ilitary and ommunication Areas	M Si	ubway Entrance
		artly Demolished uildings	3883 D	emolished Buildings
	Fi	uilt-Up Area with reproof Buildings redominant	//////////////////////////////////////	uilt-Up Area with on-Fireproof Buildings redominant
		dividual Fireproof uilding	STATE OF THE PARTY	ominent Industrial uilding
		dividual Dwelling, reproof		uins ofan Individual welling
	, a	🖔 бум.	□ скип.	♀ медн.
	Factory or Mill Chimney	Factory or Mill	Factory or Mi without Chimi	II Mine or
	ж кам. уг.	*	ATTD co	4. <u>A</u>
	Operating Shaft or Mine	Non-Operating Shaft or Mine	Salt Mine	Tailings Pile
	⊘ 0 − 1.7	er. nec. kam.	₹	•
	Pit	Stone Quarry	Gas Pump o Service Statio	
	8	\times	×	= 6.mp.
	Oil or Natural Gas Derrick	Small Hydroelectric Power Station	Power Station	n Transformer Station
	•		₾ 95.7	△ 92.6
	Cemetery	Burial Mound (height in metres)	Triangulation Pon Burial Mou	
	□ 52. /	9 7/./	×	1
	Bench Mark	Bench Mark (monumented)	Telegraph Office	Telephone Station
t)	4	ਰੀ :	†	\$
	Radio Station	Radio Tower	Airfield or Seaplane Bas	Landing Strip se
	Cut Fill	Km Post Plantings		Width of Road
	Telegra	ph/Telephone Lines	****	Steep Grade
		n Highway	Highway under Construction	Improved Dirt Road (former truck road)
	Small Bridge <i>C∏</i>	Pipe 1. (Culvert) Tunnel	Dism	antled Railroad
		track Railroad with t Class Station		Jnder Construction
	Commence of the control of the contr	**************************************	Direction and	Water Gauge
	Shore Embankmer	River or Ditch with t Embankment		nt /35.1 Water Level Mark
	© К. 125,0 гл. 8м (гсол	.) = edxp.	156,2 📍 K.A.	20
	Well	Water Reservoir or Rain Water Pit	Spring	Isobath with value
				o 347.1
	Heavy (Inde Contour Lin		Half Contour Line	Spot Elevation Value

Key to Numbers on Mapping

SM90SE Pembroke

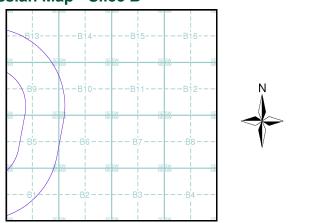
No.	Description
8	Factory (Gas)
11	Sawmill
12	Military Barracks
15	Radio Station



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1869	3
Pembrokeshire	1:10,560	1909	4
Pembroke	1:10,000	1950	5
Pembrokeshire	1:10,560	1953	6
Ordnance Survey Plan	1:10,000	1964	7
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Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2017	14

Russian Map - Slice B



152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650 Slice: В

36.27 1000

Site Details

Milford Haven Port Authority, Captain Superintendents Building,



0844 844 9952 0844 844 9951

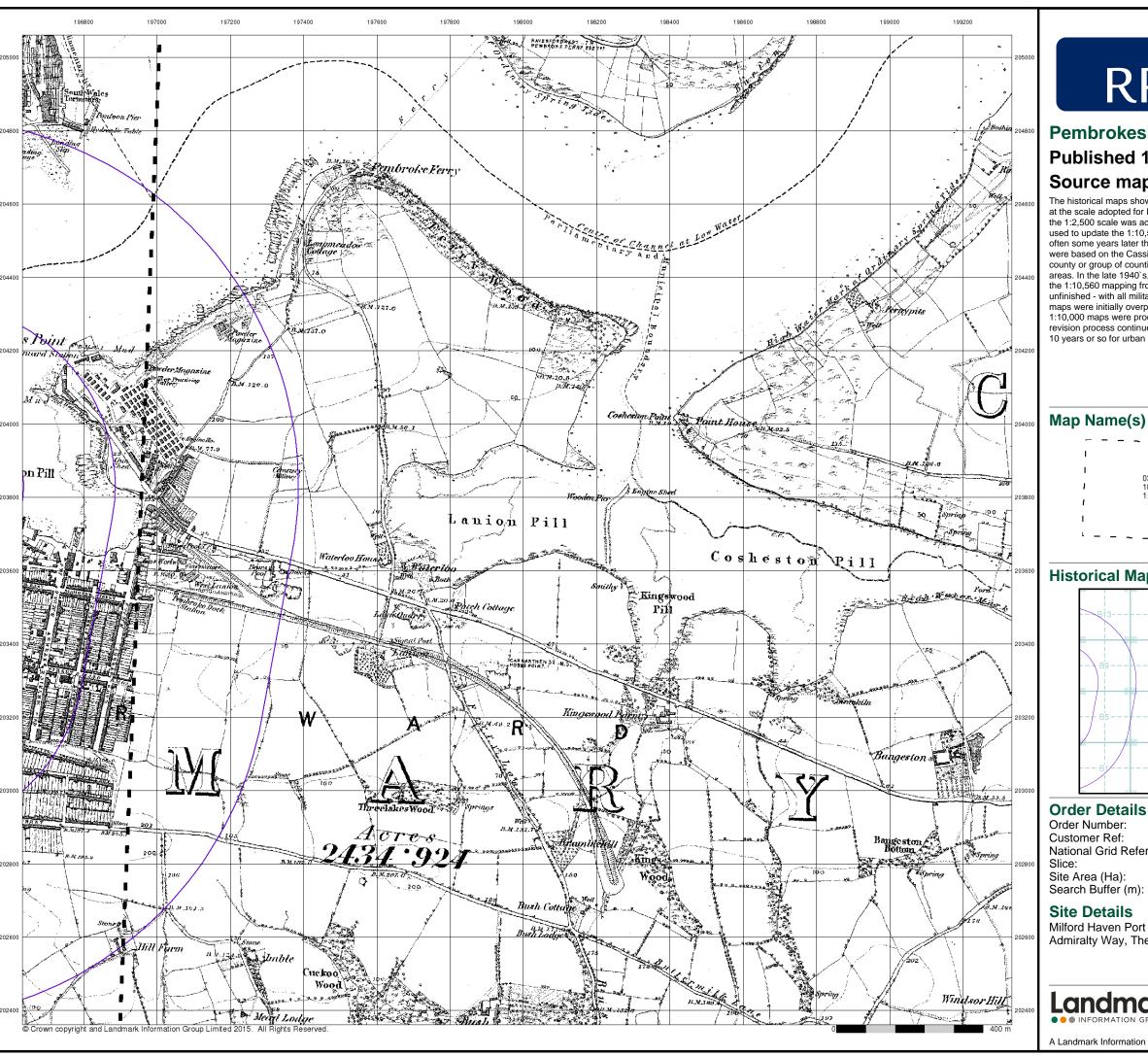
A Landmark Information Group Service v50.0 12-Jan-2018 Page 2 of 14



Site Area (Ha):

Search Buffer (m):

Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD





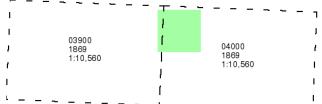
Pembrokeshire

Published 1869

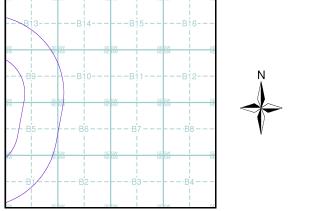
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650

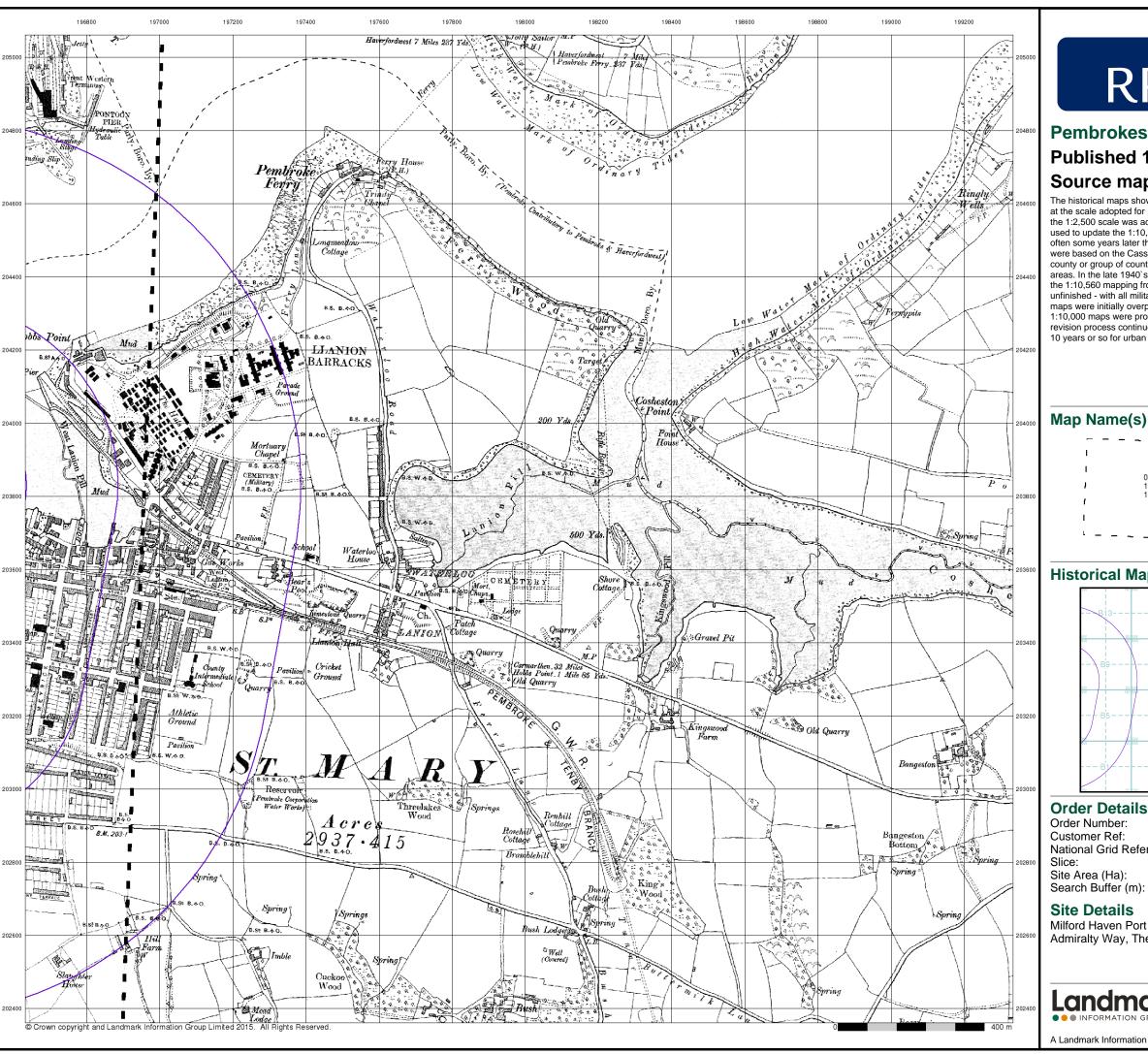
36.27 1000

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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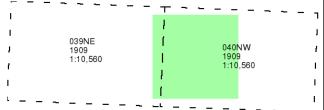
Pembrokeshire

Published 1909

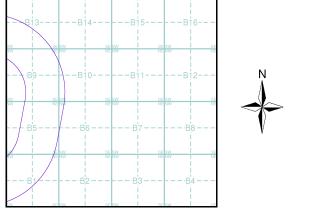
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 1000

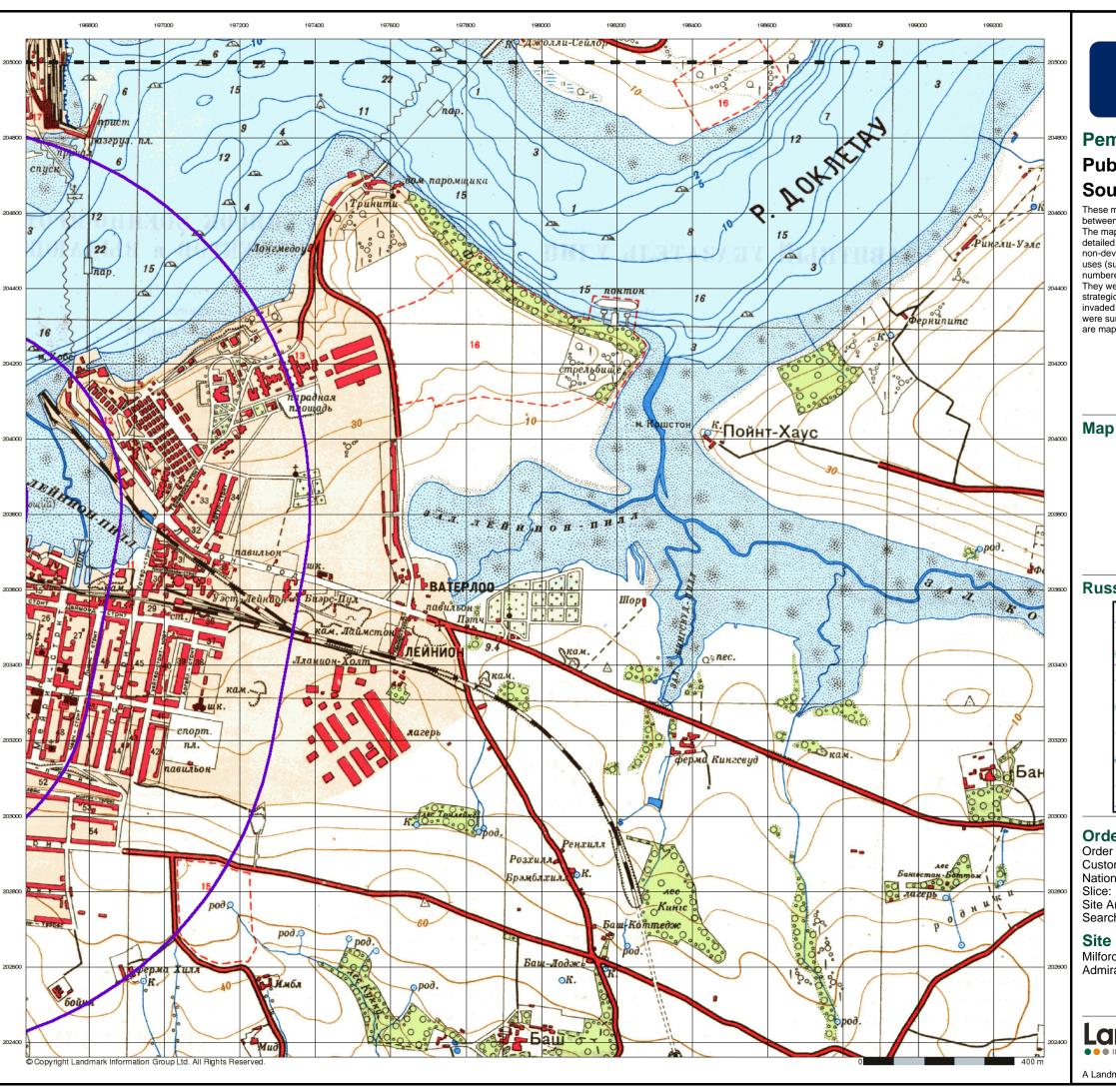
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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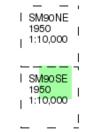
Pembroke Published 1950 Source map scale - 1:10,000

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

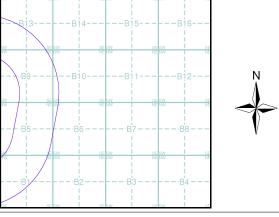
numbered key describing their use.

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

Map Name(s) and Date(s)



Russian Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 Search Buffer (m): 1000

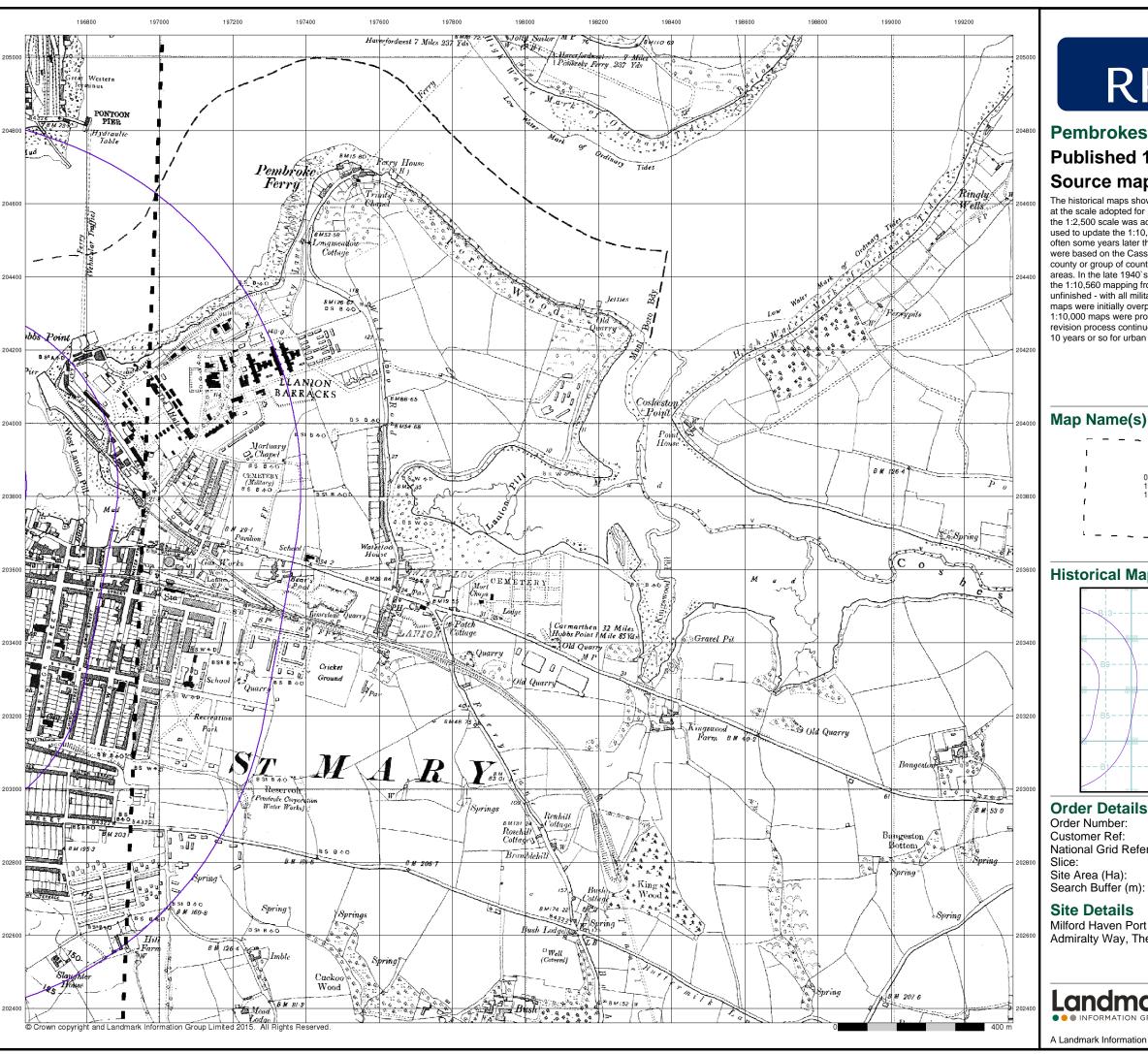
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD



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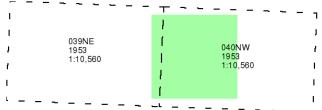
Pembrokeshire

Published 1953

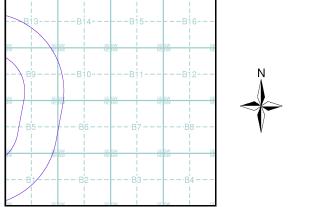
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 1000

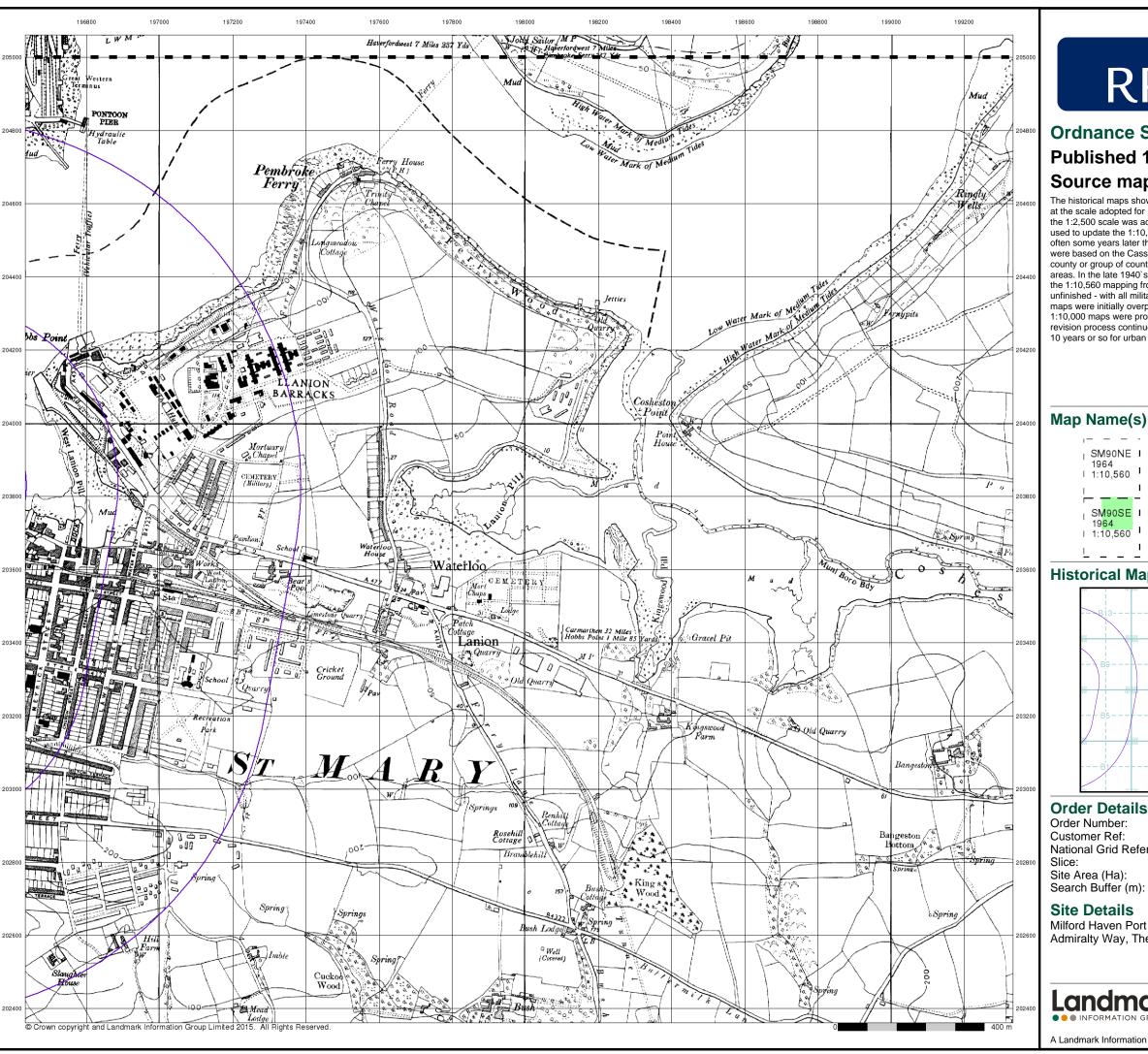
Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

Landmark

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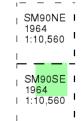
Ordnance Survey Plan

Published 1964

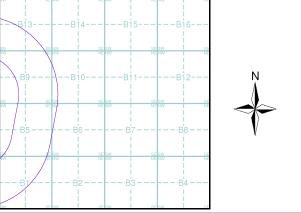
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 1000

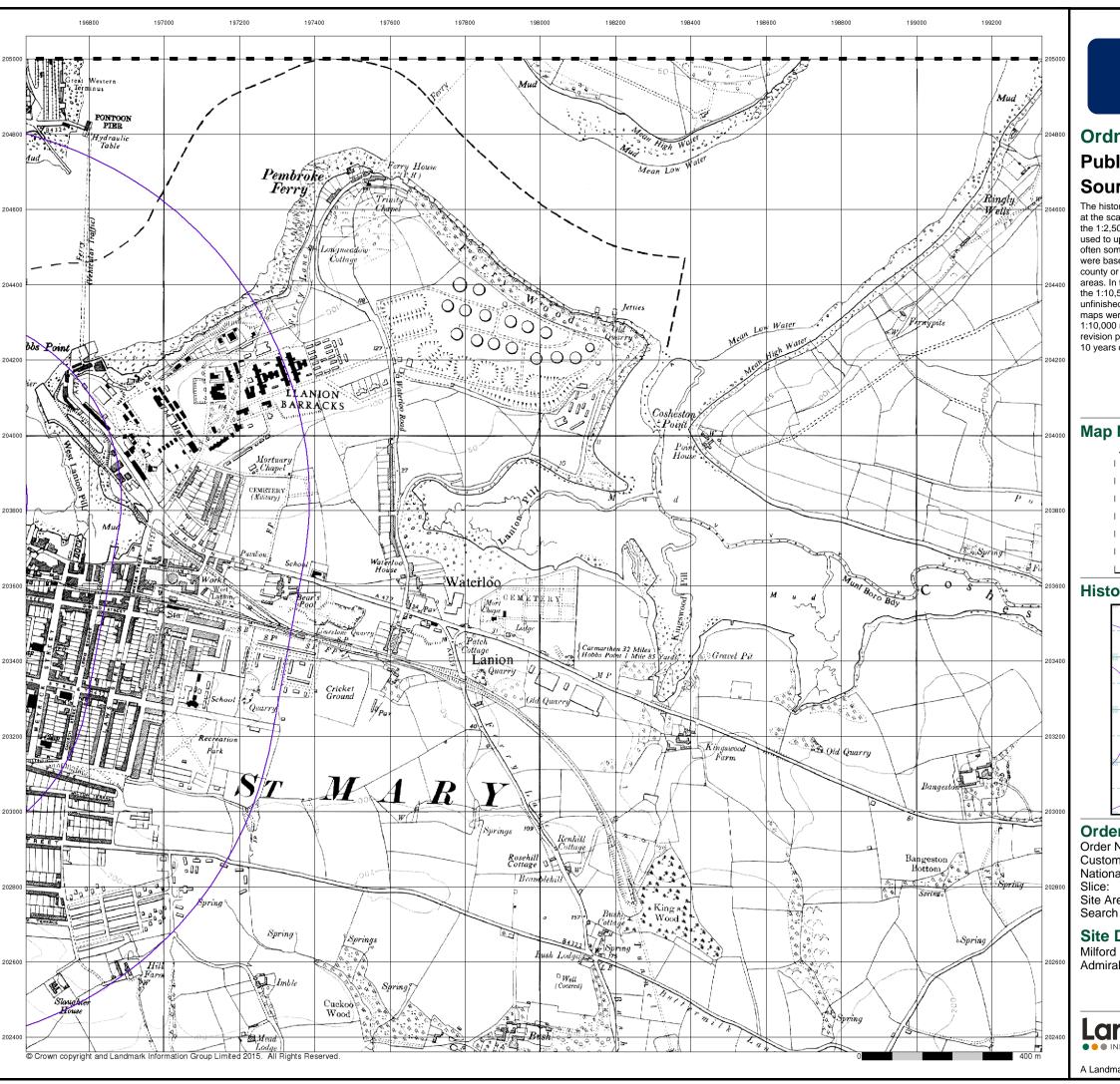
Site Details

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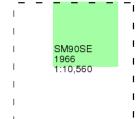


Published 1966

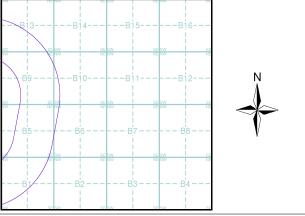
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 Search Buffer (m): 1000

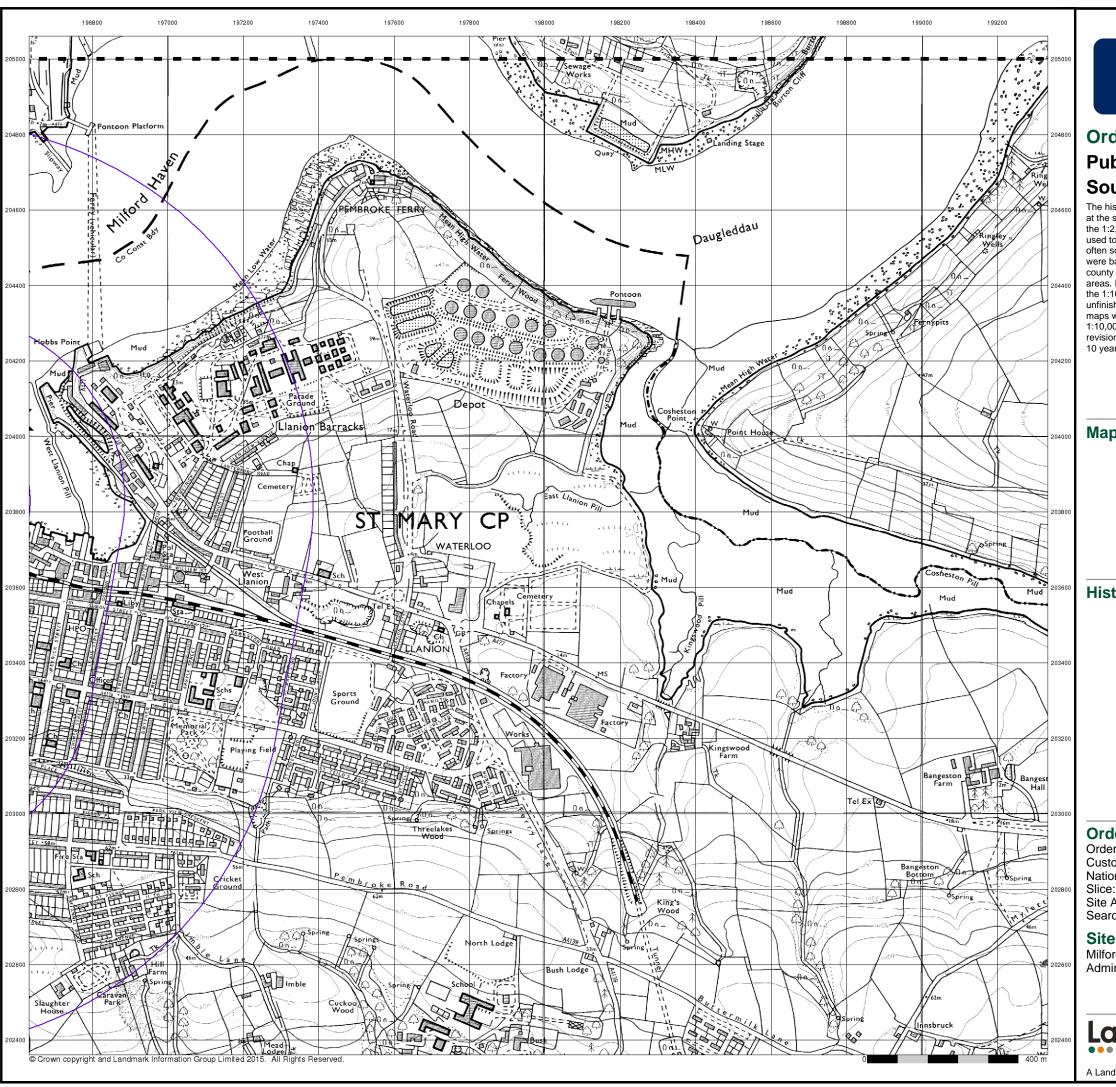
Site Details

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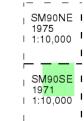


Published 1971 - 1975

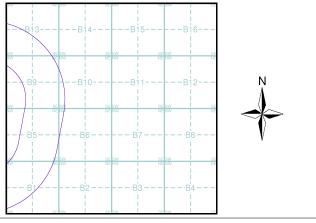
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 Search Buffer (m): 1000

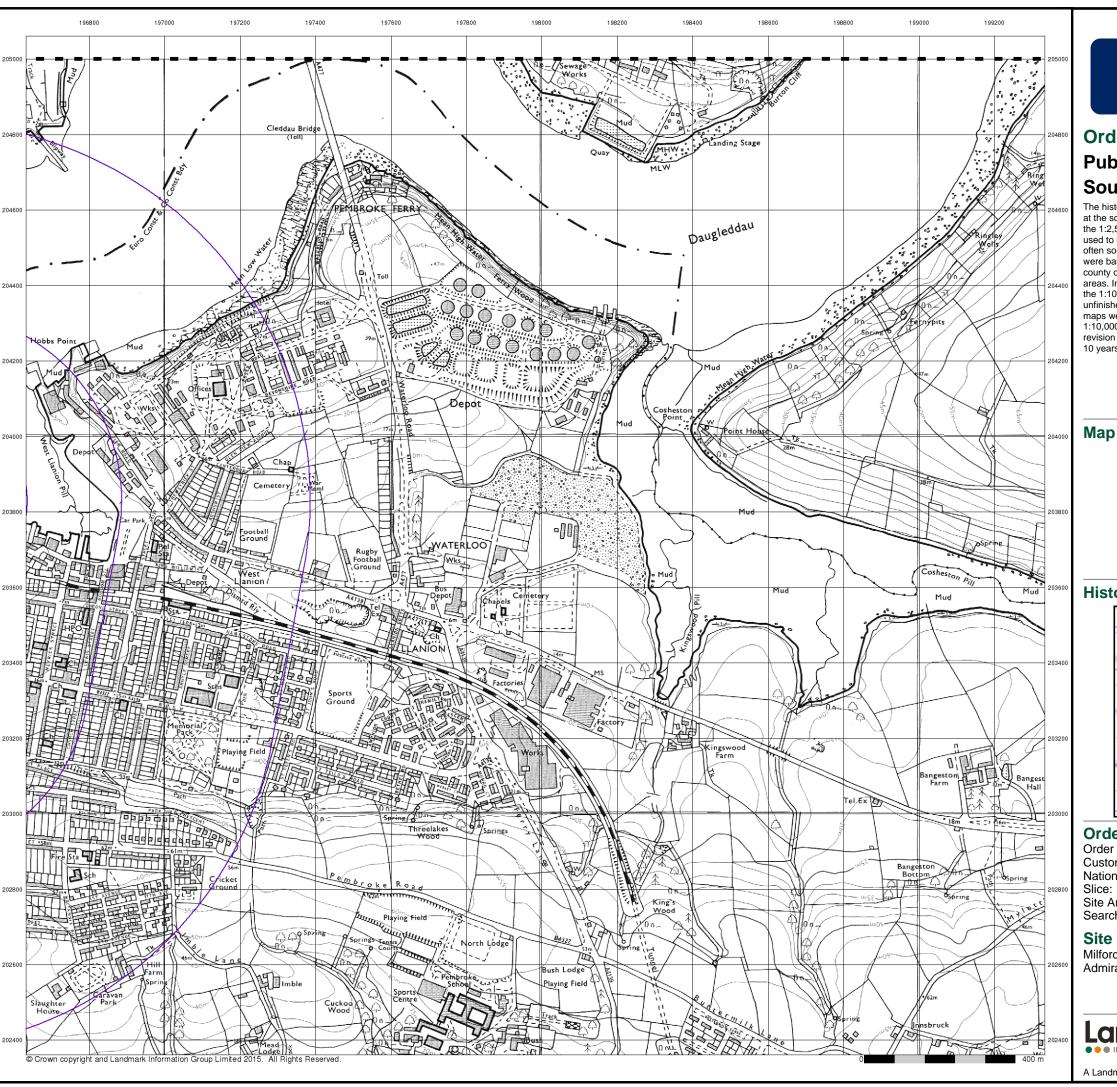
Site Details

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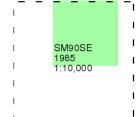


Published 1985

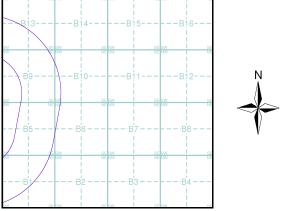
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 Search Buffer (m): 1000

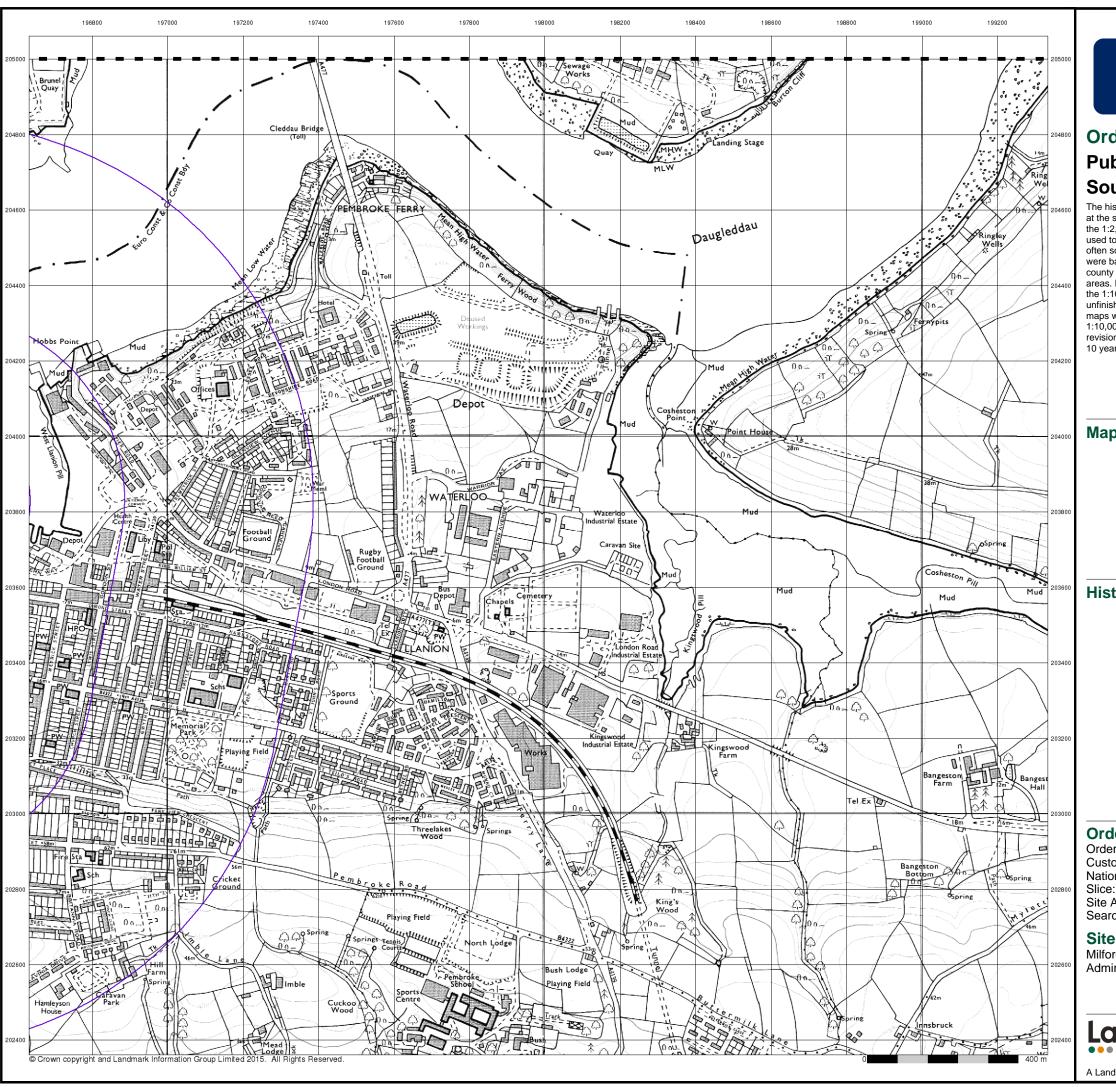
Site Details

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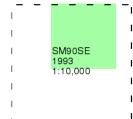


Published 1993

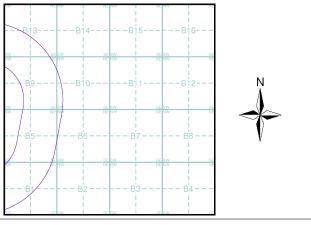
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 196950, 203650

Site Area (Ha): 36.27 Search Buffer (m): 1000

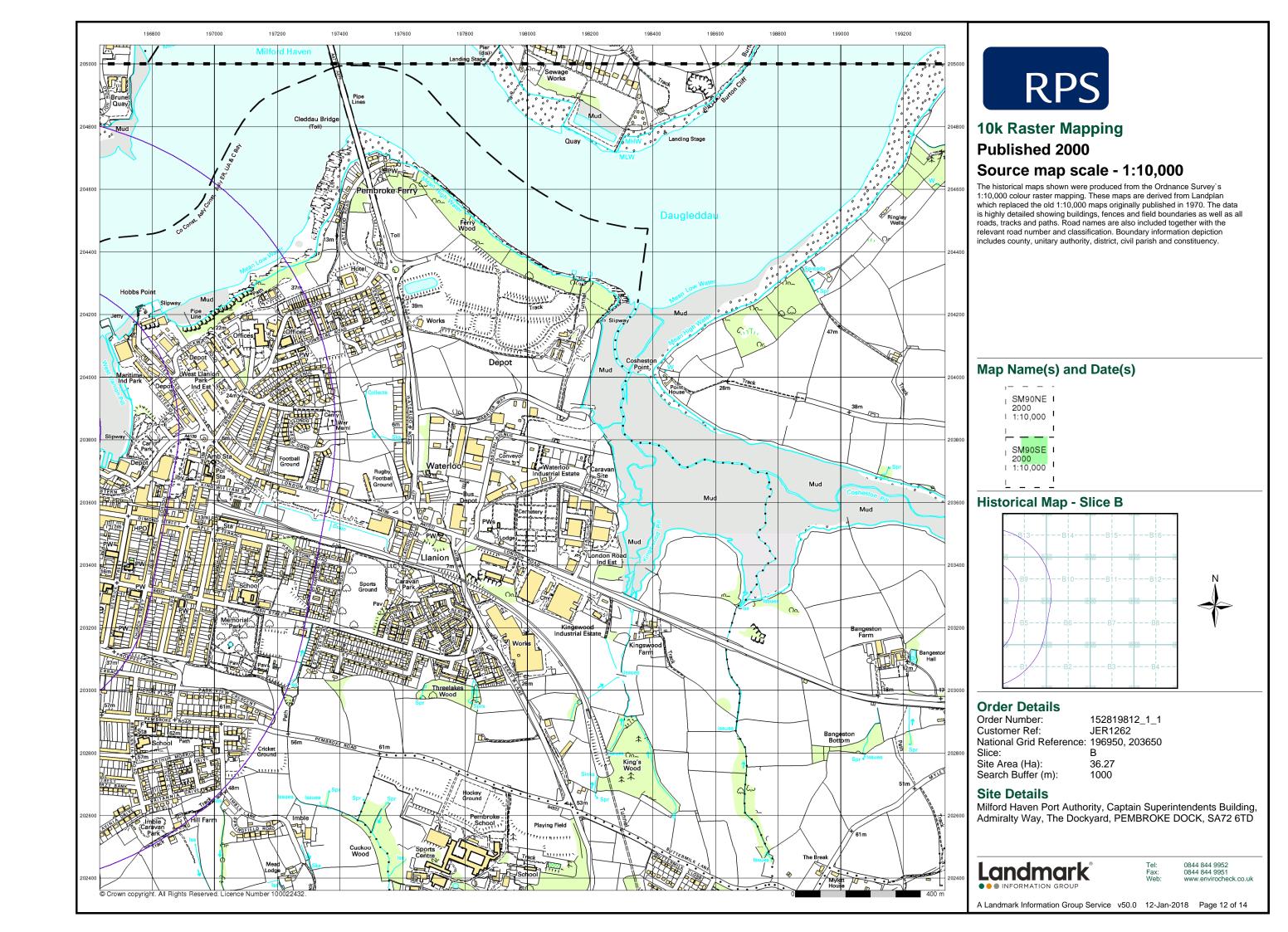
Site Details

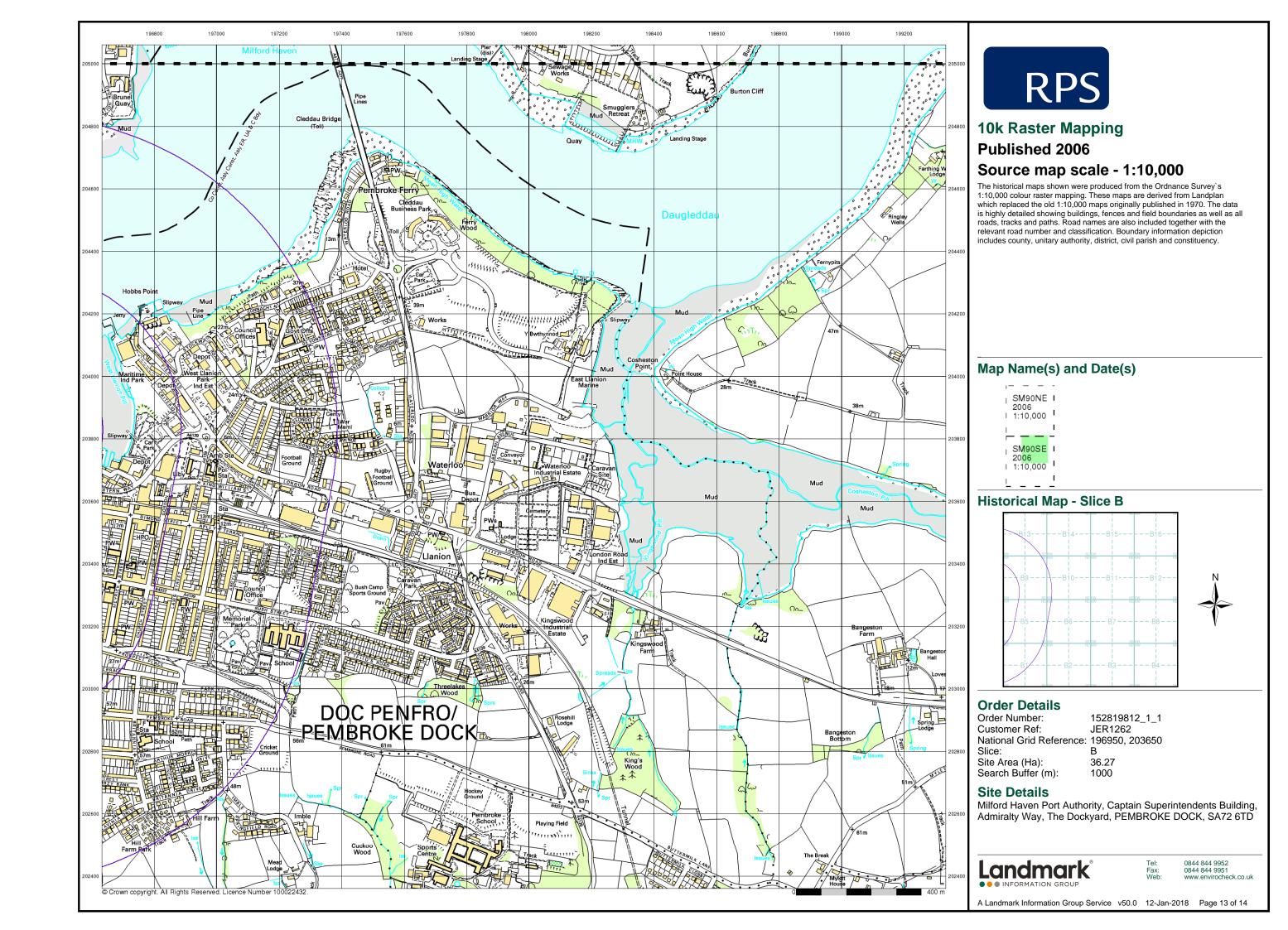
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

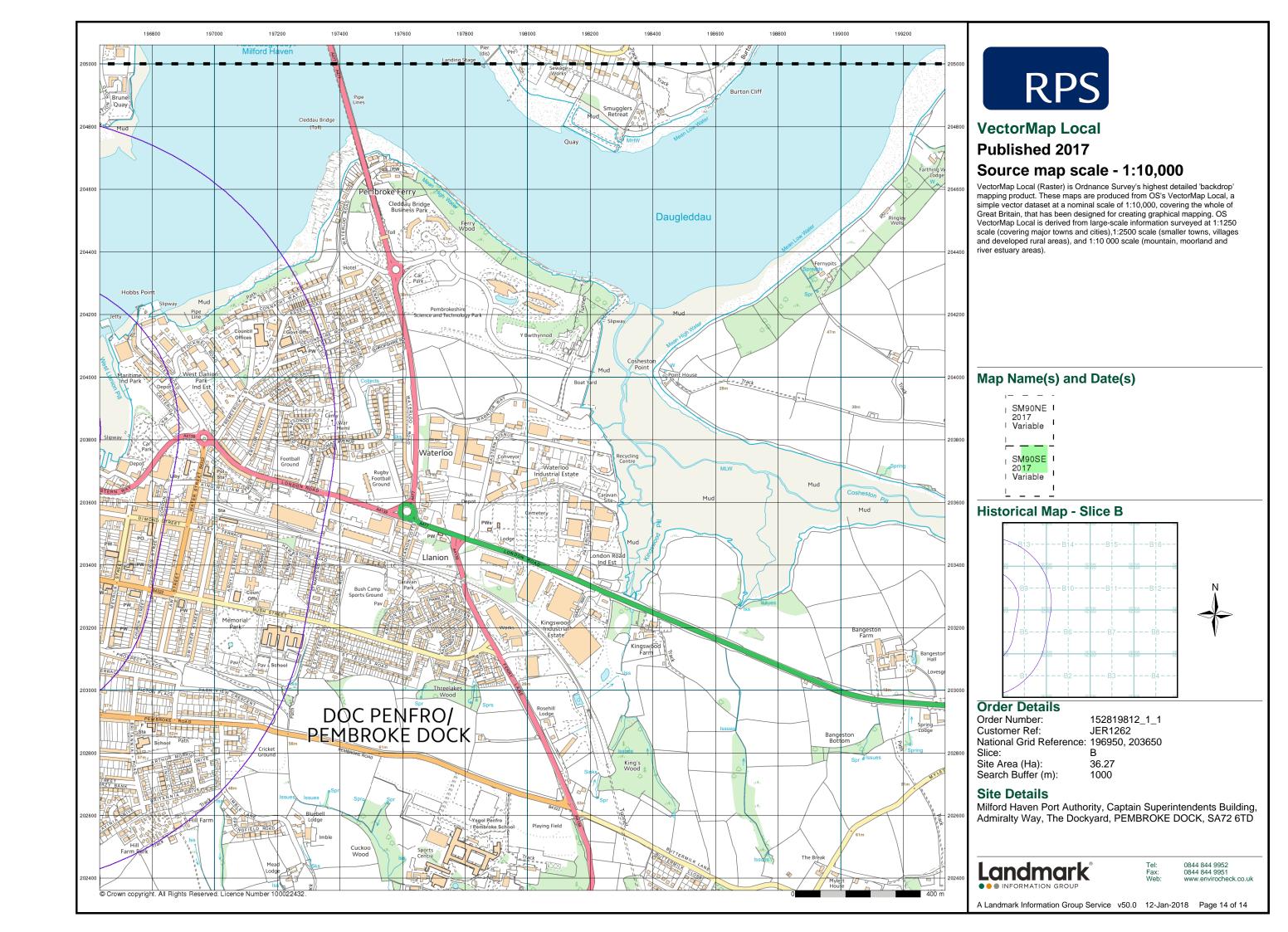


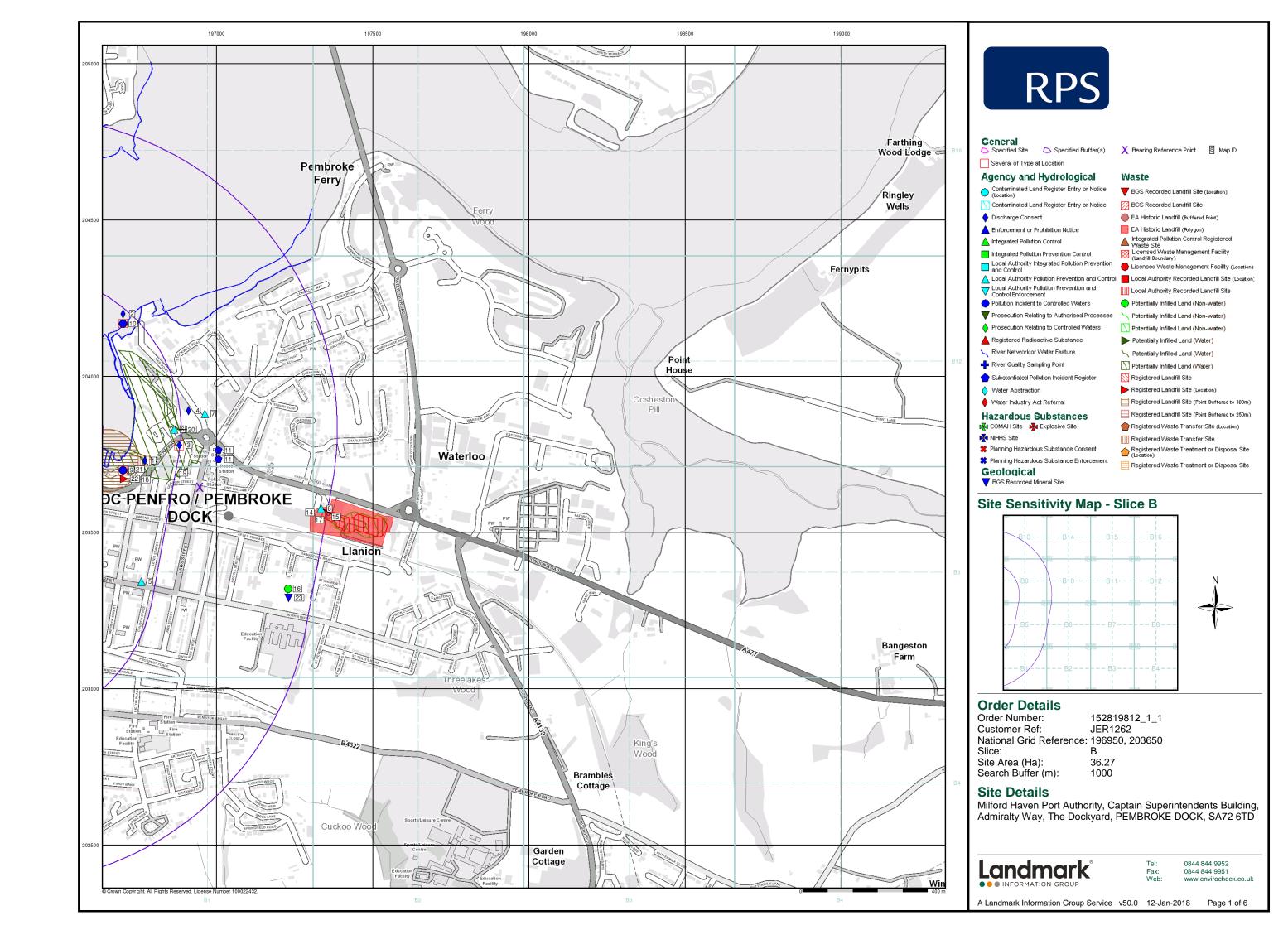
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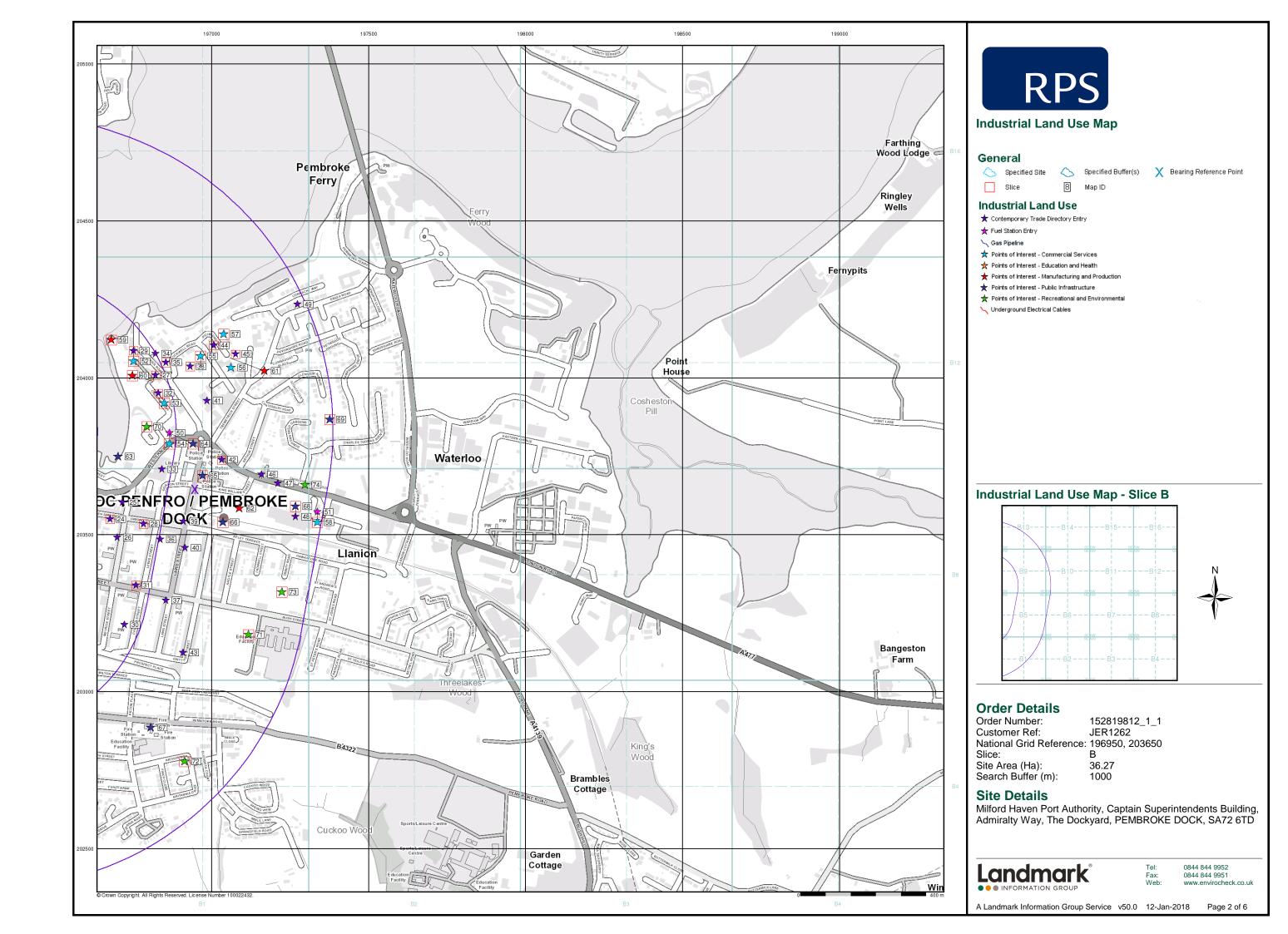
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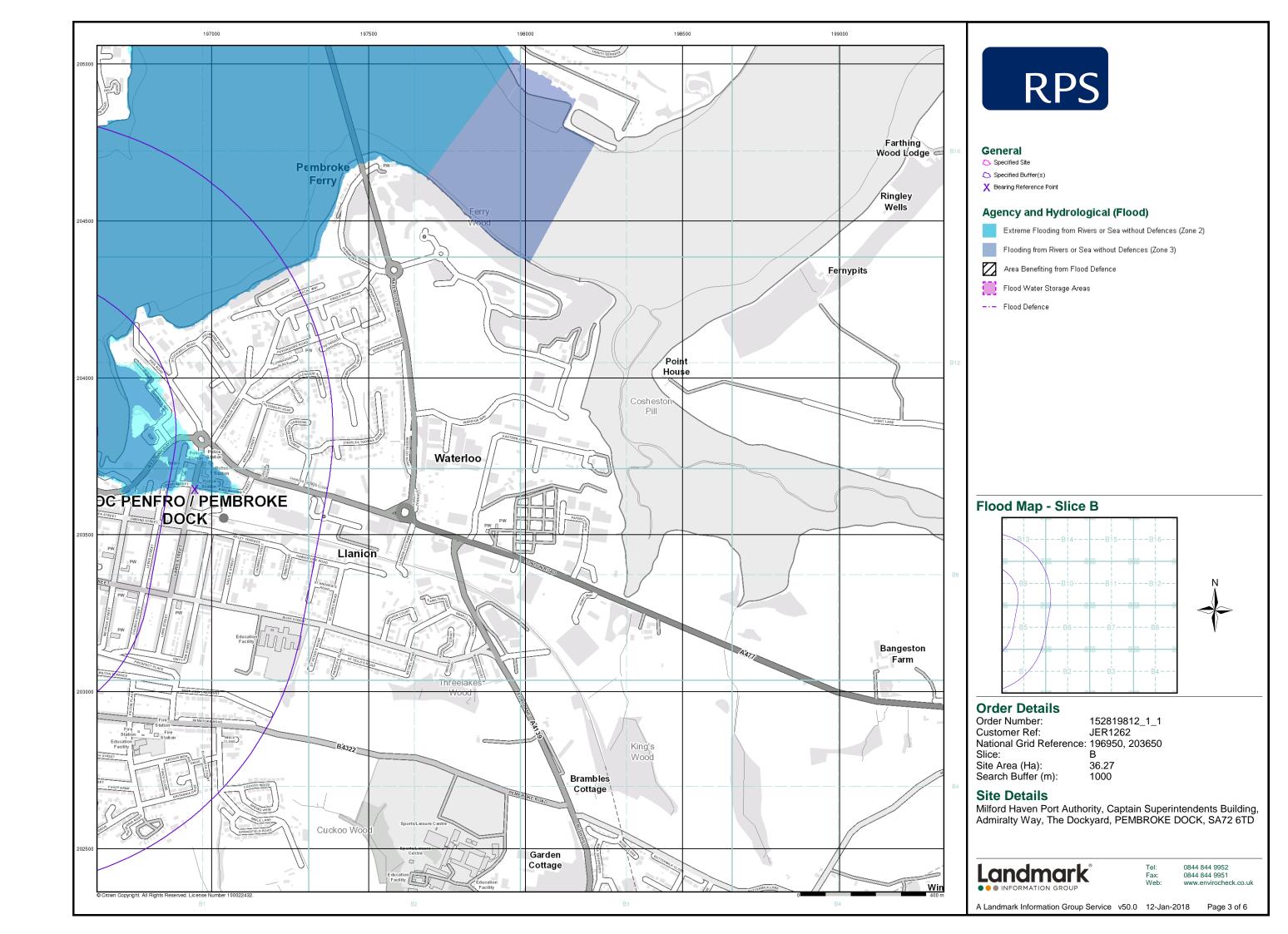


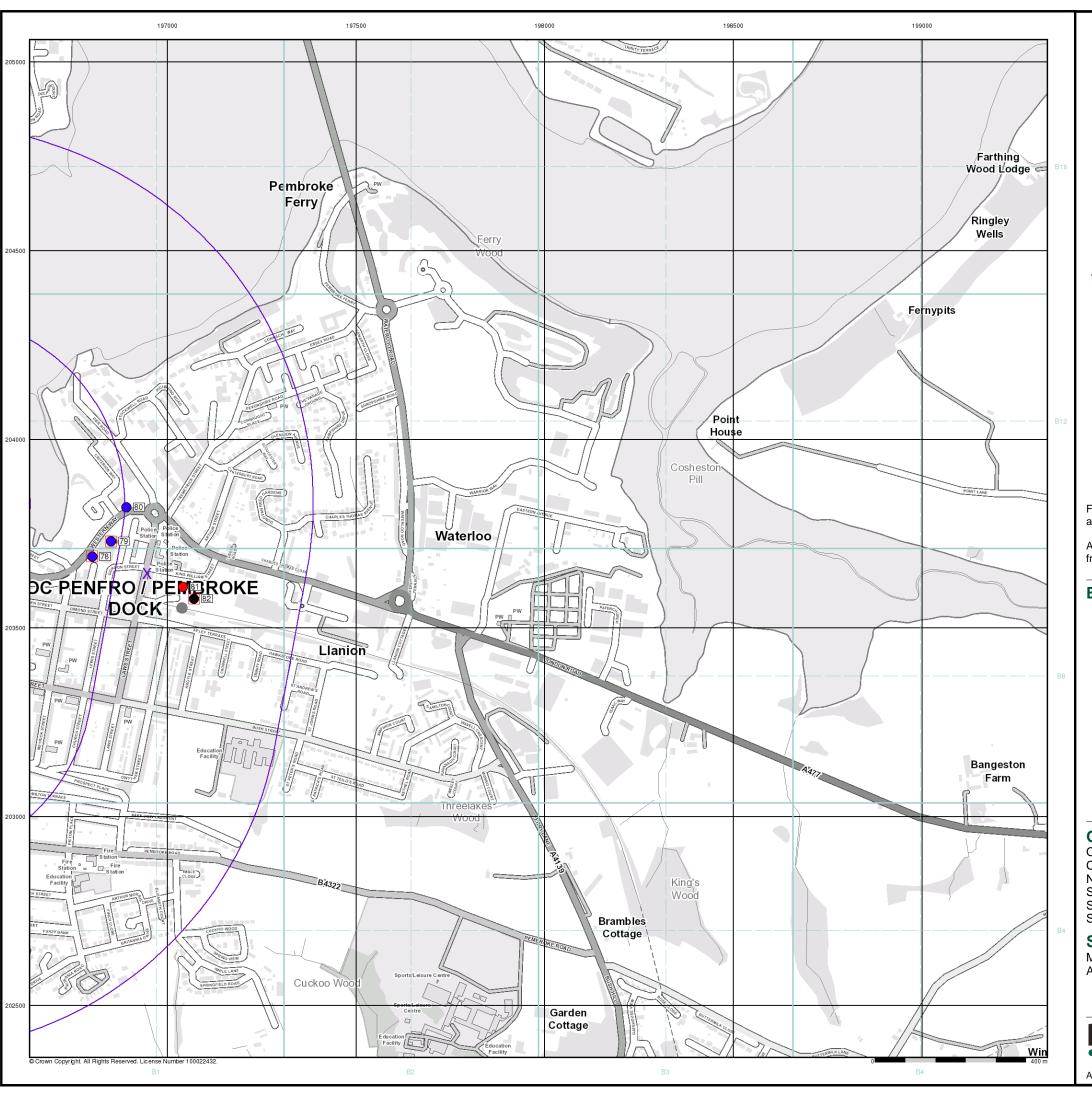














General

🔼 Specified Site

Specified Buffer(s)

X Bearing Reference Point

8 Map ID

Several of Type at Location

Agency and Hydrological (Boreholes)

BGS Borehole Depth 0 - 10m

BGS Borehole Depth 10 - 30m

BGS Borehole Depth 30m +

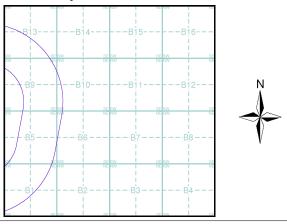
Confidential

Other

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

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

Borehole Map - Slice B



Order Details

Order Number: 152819812_1_1 Customer Ref: JER1262 National Grid Reference: 196950, 203650 В

Slice:

Site Area (Ha): Search Buffer (m): 36.27 1000

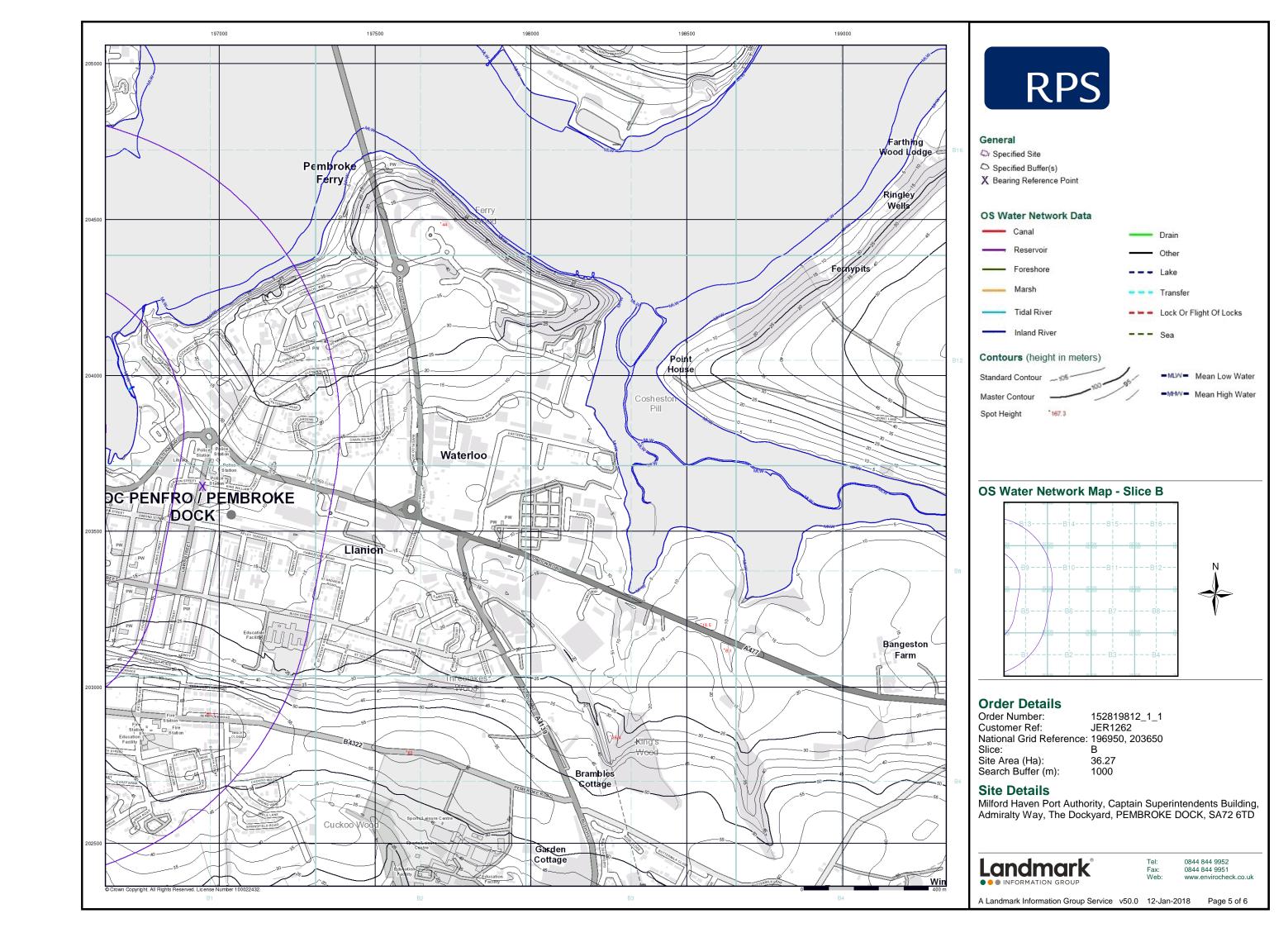
Site Details

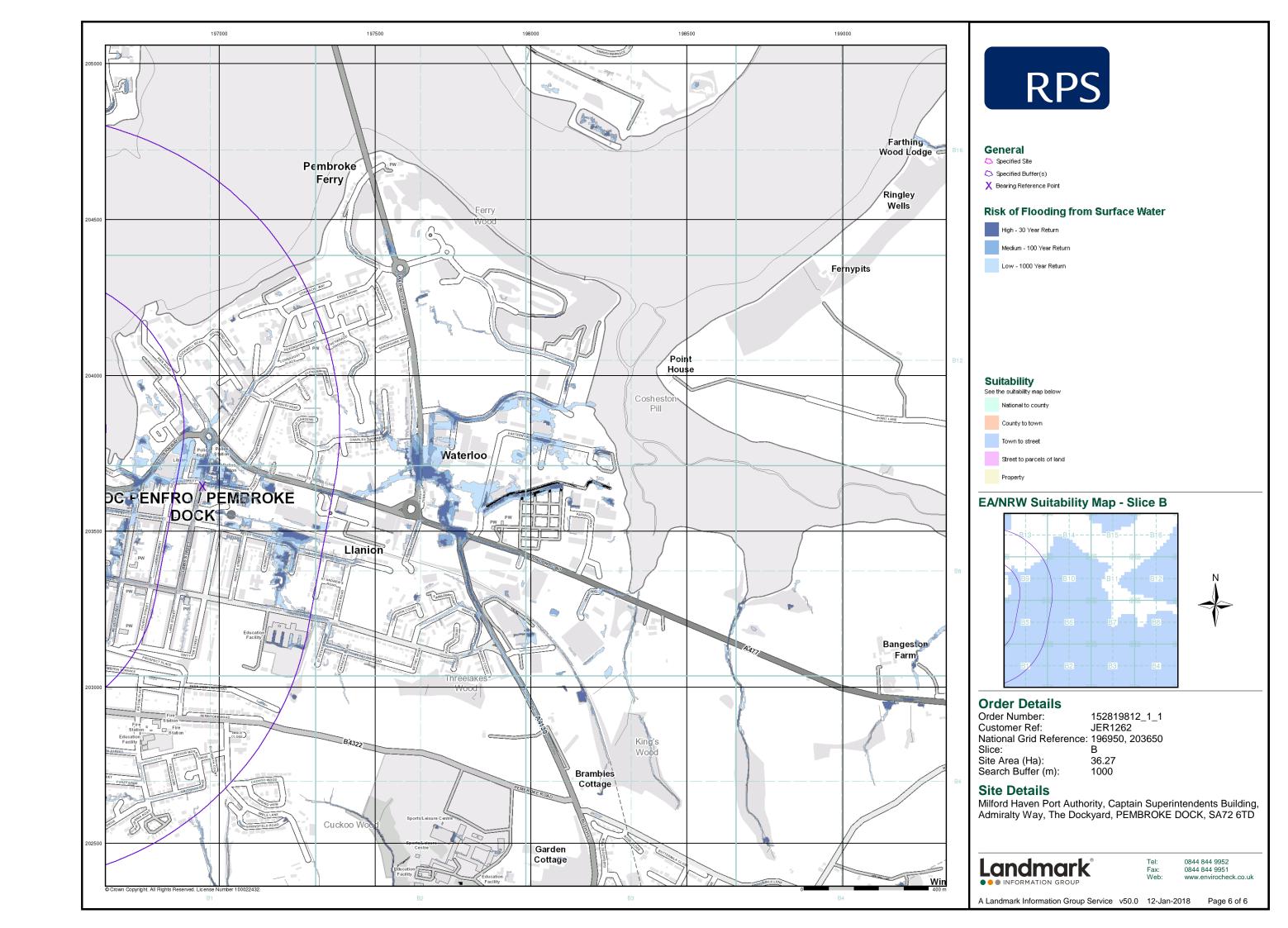
Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

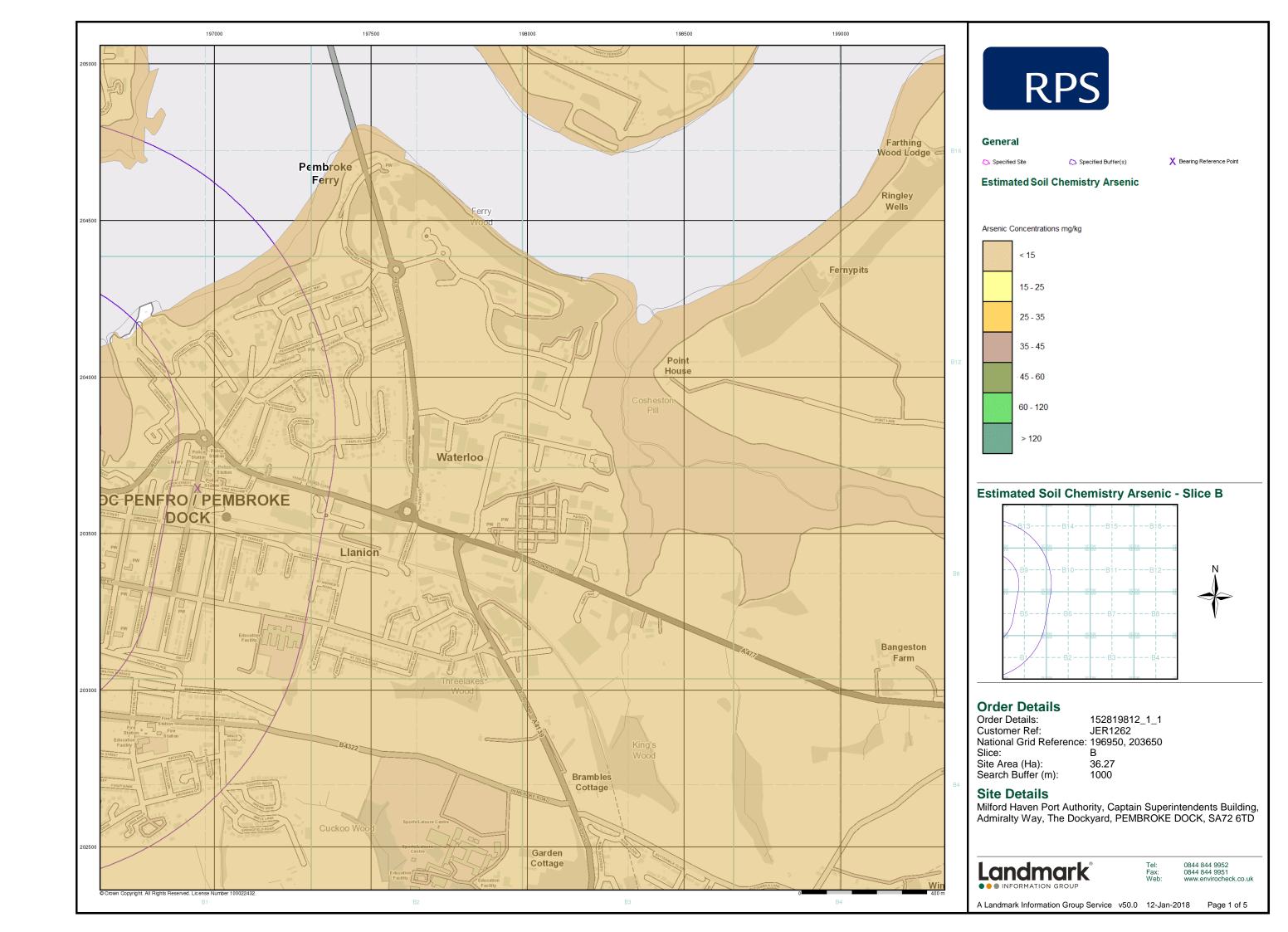
Landmark

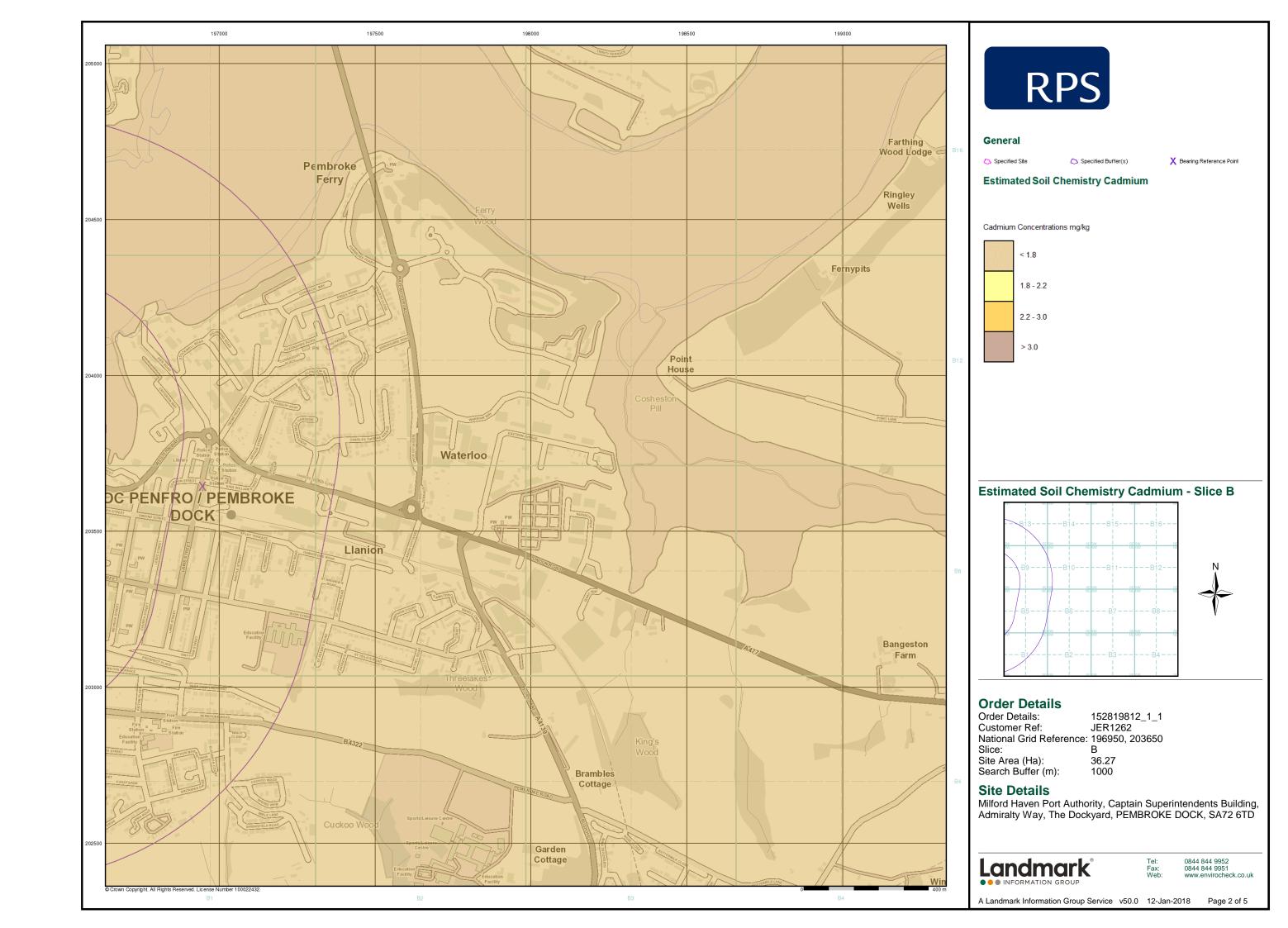
0844 844 9952

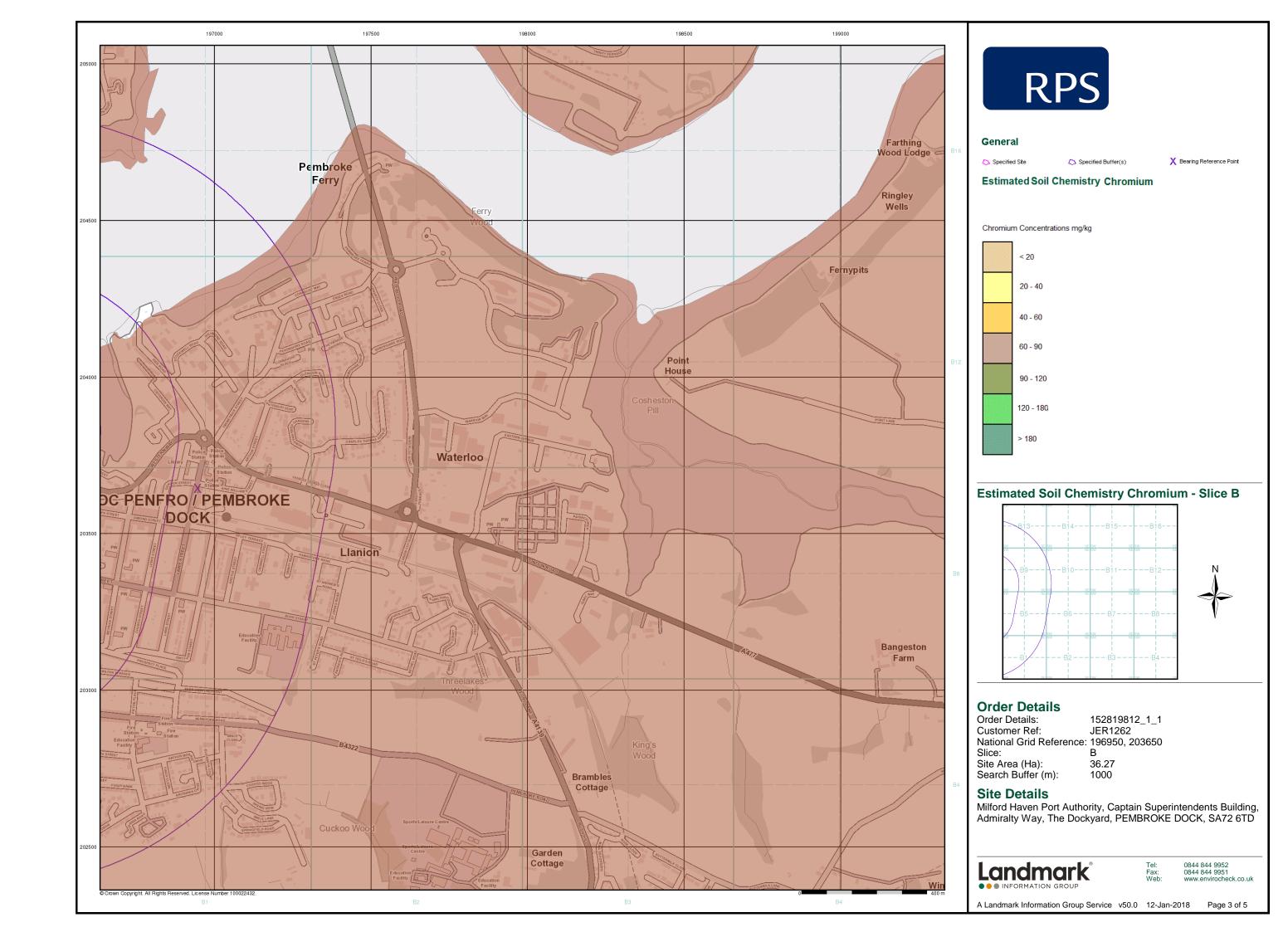
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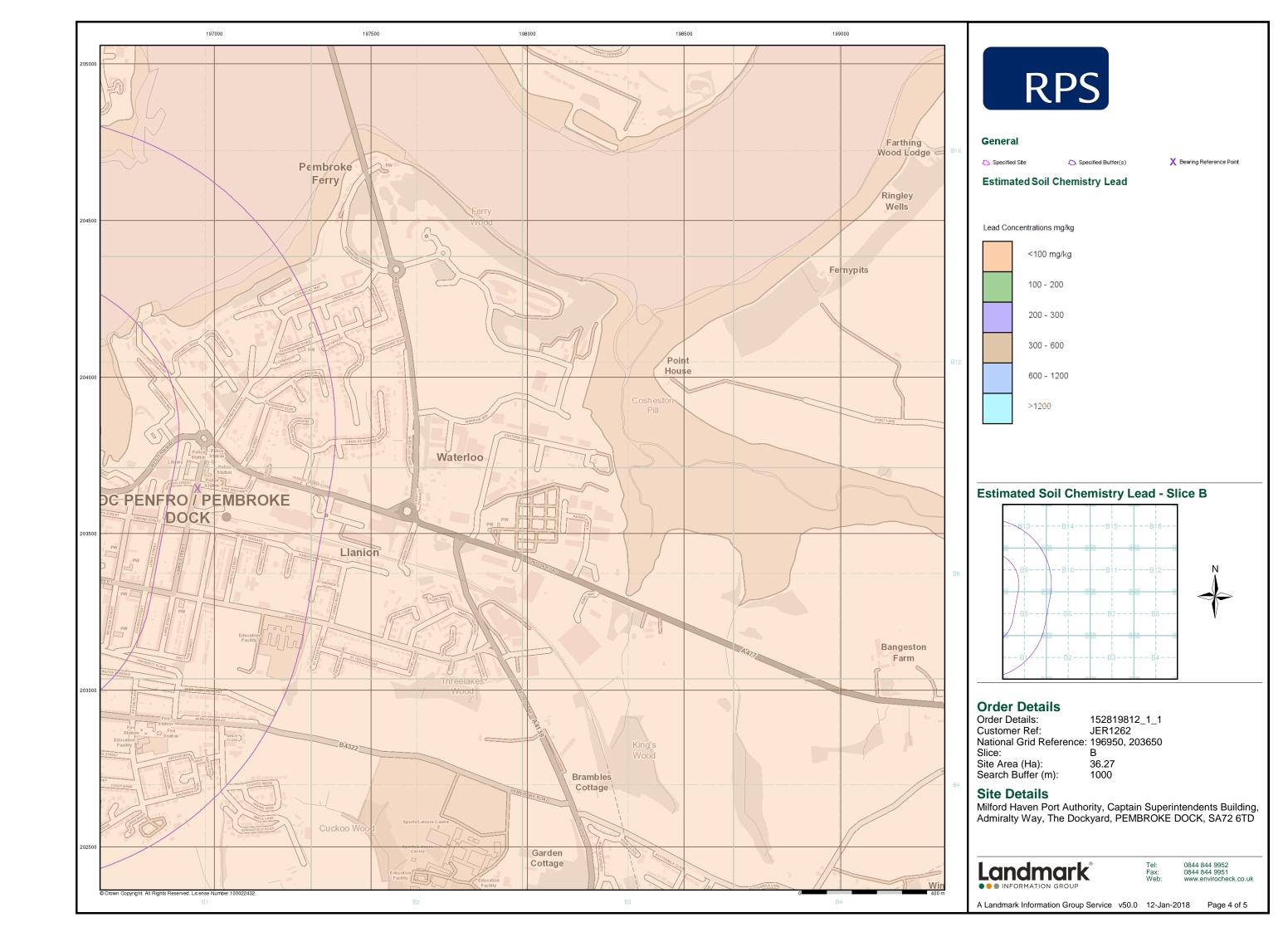


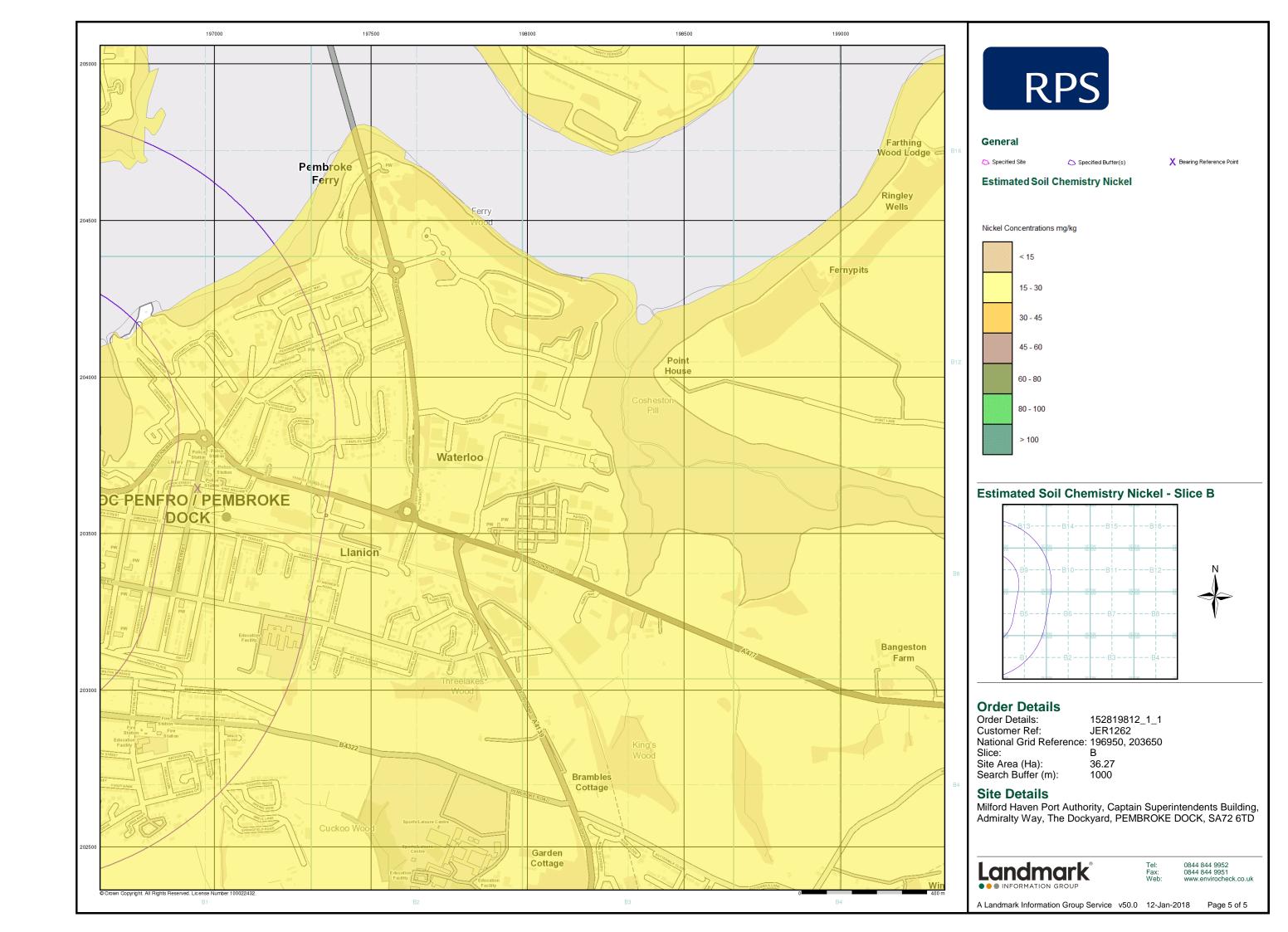


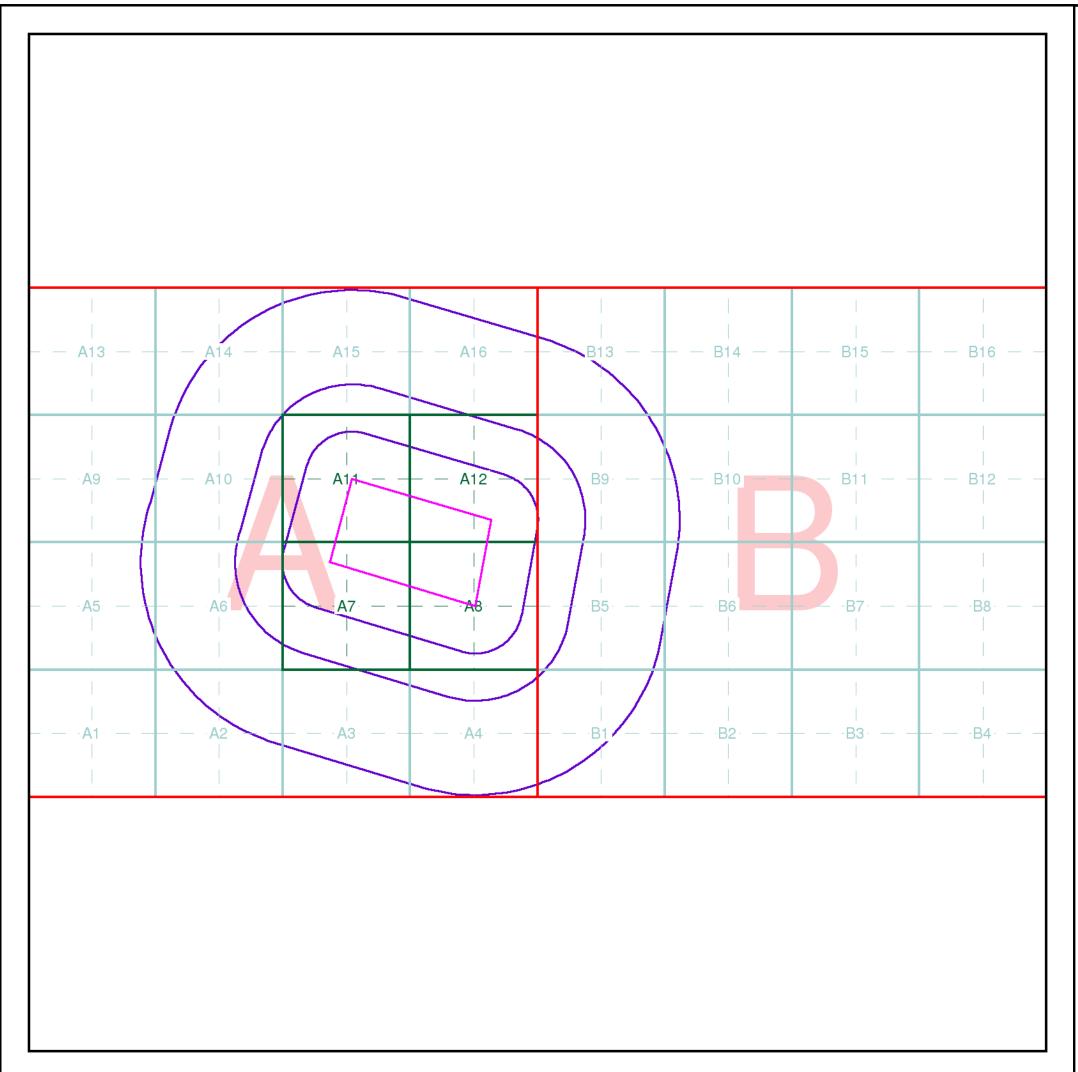














Index Map

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

Slice

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

Seamer

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

Quadrant

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

A selection of organisations who provide data within this report:







Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms A Thomas, RPS Consultants, 260 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4SY

Order Details

Order Number: 152819812_1_1
Customer Ref: JER1262
National Grid Reference: 195970, 203710

Site Area (Ha): 36.27 Search Buffer (m): 1000

Site Details

Milford Haven Port Authority, Captain Superintendents Building, Admiralty Way, The Dockyard, PEMBROKE DOCK, SA72 6TD

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



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