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Pembrokeshire County Council Eco-Park

H5 Site Condition Report

On behalf of **Pembrokeshire County Council**

Pembrokeshire County Council
Cyngor Sir Benfro



Project Ref: 47244/3501/R1 | Rev: 2 | Date: December 2019

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Document Control Sheet

Project Name: Pembrokeshire County Council Eco-Park

Project Ref: 47244

Report Title: H5 Site Condition Report

Doc Ref: 47244/3501/R1

Date: December 2019

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Approved by:	Oliver Belson	Associate		9/12/2019
For and on behalf of Peter Brett Associates LLP				

Revision	Date	Description	Prepared	Reviewed	Approved
0	3/12/2019	First Draft for Client Issue	MG	JC	OB
1	29/01/2020	Final Issue	MG	OB	OB
2	09/11/2021	Amendment to Site name	KB	OB	OB

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Figure 3	Sources, Pathway and Receptors
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1 Introduction

1.1 Brief

- 1.1.1 Eunomia Research & Consulting Ltd, on behalf of The Waste and Resource Action Programme Cymru (WRAP) and Pembrokeshire County Council (PCC), has instructed Peter Brett Associates LLP now part of Stantec (PBA) to prepare a H5 Site Condition Report (SCR) for a bespoke Environmental Permit for the proposed PCC Eco-Park, Amoco Road, Milford Haven, under The Environmental Permitting (England and Wales) Regulations 2016 (as amended).
- 1.1.2 The location of the site is illustrated in Drawing 001 dated November 2019. The Environmental Permit Boundary and the site layout is illustrated on Drawing 002 dated November 2019.
- 1.1.3 This SCR has been prepared in accordance with the Natural Resources Wales Guidance for Applicants H5 Site Condition Report (NRW, 2014). The objective of the SCR is to record and describe the condition of the land at the site at the time of the permit application. The SCR will provide a point of reference and baseline environmental data so that when the permit is surrendered it can be demonstrated that there has been no deterioration in the condition of the land and it is in a 'satisfactory state' on surrender of the permit.
- 1.1.4 Sections 1 to 3 of the EA's SCR template have been completed in the preparation of this document, which comprises the following;
- site details;
 - condition of the land at permit issue;
 - geology;
 - hydrogeology;
 - hydrology;
 - pollution history;
 - evidence of historic contamination; and,
 - permitted activities.
- 1.1.5 Section 4 to 7 of the SCR template will be maintained during the life of the permit and Sections 8 to 10 will be completed and submitted in support of the application to surrender the permit.

2 Site Condition Report H5 Template

1.0 SITE DETAILS	
Name of the applicant	Pembrokeshire County Council
Activity address	Amoco Road Milford Haven SA73 3FB
National grid reference	SM 89010 209300
Document reference and dates for Site Condition Report at permit application and surrender	Report reference 47244/3501/R1, December 2019
Document references for site plans (including location and boundaries)	Drawing 001 – Site Location Plan Drawing 002 – Environmental Permit Boundary and Site Layout Drawing 003 – Sources, Pathways and Receptors Plan Drawing 004 – Cultural and Natural Heritage Plan

Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 CONDITION OF THE LAND AT PERMIT ISSUE

<p>Environmental setting including:</p> <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>Geology</p> <p>The British Geological Survey website (BGS, 2019) shows the site to be underlain by bedrock of the Milford Haven Group which comprises marl with sporadic sandstone beds.</p> <p>There are no mapped superficial deposits covering the site.</p> <p>Hydrogeology</p> <p>The Envirocheck report indicates that the bedrock aquifer designation, within the Milford Haven Group, is classified as a ‘Secondary A’ Aquifer which have permeable layers capable of supporting water supplies at a local rather than strategic scale, but in some cases forming an important base flow to rivers.</p> <p>Groundwater Vulnerability</p> <p>The Envirocheck Report indicates that the site soil classification is of high leaching potential.</p> <p>Source Protection Zone</p> <p>The Envirocheck report shows that the site is not located within a Source Protection Zone.</p> <p>Hydrology</p> <p>A drainage ditch is present adjacent to the southern site boundary in Area 3 which flows broadly south-eastwards away from the site and wider refinery, eventually flowing into Scotch Bay in Milford Haven.</p> <p>Flooding</p> <p>The Envirocheck Report states that the site does not lie within a flood zone.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution 	<p><u>Pollution History</u></p> <p>The Envirocheck Report, included in this application as Appendix A, includes details of pollution incidents on and off site:</p> <p>On site: There are no on-site pollution incidents on record.</p> <p>Off site: Within 1km of the site there have been nine pollution incidents. Six of these were categorised as Category 3 Minor Incidents, two entries were categorised as Category 2 Significant Incidents and a single incident was categorised as a Category 1 Major Incident.</p> <p>The closest pollution incident was a minor incident that occurred approximately 200m to the east of the site in October 1996 where a spillage of chlorinated water to controlled waters led to a minor impact upon water quality.</p> <p>The two entries for Significant (Category 2) pollution incidents are centred on the same grid reference and share the same incident and thus are</p>

prevention measures	<p>assumed to in fact refer to a single event, which was caused by the release of diesel to controlled waters which reportedly occurred approximately 870m to the south of the site in August 1997.</p> <p>The Major (Category 1) incident occurred in May 1995 and involved the leakage of diesel fuel from a pipeline present some 780m south of the site.</p> <p><u>Historical Land-uses</u></p> <p>On site: The Envirocheck Report confirms that there has been potentially polluting historical land uses on site, as follows.</p> <p><i>Oil Refinery</i></p> <p>Historical maps published between 1976 and present day shows the site to fall within the curtilage of the Milford Haven Oil Refinery. The 1978 map shows the site itself was used as a helicopter landing area. It is understood that specific refinery processes were not undertaken within the current area of interest.</p> <p>Off site: The wider refinery is located to the immediate south of the site, with its associated bulk storage and processing of hydrocarbons.</p> <p><i>Waste Management Activities</i></p> <p>The Envirocheck Report confirms the site and wider refinery fall within an area designated as historical landfill. No further information on the precise tipping area, wastes accepted or dates of operation are available, although it is noted that historical Ordnance Survey mapping from 1978 through to 1992 shows a 'refuse tip' in the west of the refinery, some 900m southwest of the site.</p> <p>There is one active licensed waste management facilities located within 1km of the site. The nearest site is located approximately 950m west of the site and is operated by Puma Energy, with the permit issued in 2015 by Natural Resources Wales titled TOTAL LANDFARM 7. No further details relating to this permit are available.</p> <p><i>Registered Landfill Sites:</i></p> <p>There are two registered landfill sites (sludge farms) present within 1km of the site. The nearest of these is located some 600m southwest of the site and was operated by Amoco UK Ltd and was authorised to accept iron oxide scale, oil contaminated sludge wastes, oil/water mixtures, spent bauxite and spent catalysts. This record is noted as being 'superseded'.</p> <p>The other entry was operated by Elf Oil UK Ltd and is located some 800m west of the site. It was authorised to accept 'oily waste arising on site'. The operational status of this entry is not listed but given refinery operations have ceased it is assumed that the sludge farm is no longer operational.</p> <p><i>Pollution Prevention and Control Sites</i></p> <p>There are 13 integrated pollution control sites located within 1km of the site, related to the refinery operations. All of these are now shown as superseded or revoked.</p>
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	<p>There is one active registered Local Authority Pollution Prevention and Control (PPC) site within 1km of the site. This control relates to the refinery operations and was issued by NRW.</p> <p><i>Registered Radioactive Substance Sites</i></p> <p>The refinery is authorised to keep and use radioactive materials.</p> <p>Historical Maps</p> <p>The Envirocheck Report includes historical maps of the area of the site and its surroundings, dating back to 1868.</p> <p>On site:</p> <p>Up until the 1972 to 1973 map extract the Site is shown as undeveloped presumed agricultural land bisected by a north to south running unnamed road. The 1972 to 1973 map no longer shows the road passing through the Site.</p> <p>The 1978 edition map shows the Site to fall within the curtilage of Milford Haven Oil Refinery, and a helipad is present in the western part of the Site. A small area of 'marsh' is recorded in the southeast of the Site.</p> <p>The 1992 to 1994 map edition shows an additional helipad to be present in the western part of the Site.</p> <p>No further significant changes are noted on maps published between 1994 and present day.</p> <p>Off site:</p> <p>In 1887 much of the immediate surroundings to the site were undeveloped, comprising agricultural fields, with the hamlets of Robeston Cross and Robeston West recorded some 50m to the north and 0.5km to the west of the Site respectively.</p> <p>The surrounding area remains broadly unchanged until the 1978 edition map shows the development of the Milford Haven Oil Refinery, which extends broadly southwards from the southern Site boundary for over 1.5km. A railway line has also been constructed adjacent to the refinery, and is located some 400m to the south at its closest point. The 1978 edition map also shows the development of a garden nursery some 500m to the west of the Site.</p> <p>No significant changes in land use are recorded in later map editions.</p> <p>All of the above represent potentially contaminative former land uses in the locality of the site.</p> <p><u>Current Site Use – Site Reconnaissance Visit</u></p> <p>A site visit was carried out by a PBA engineer on Friday 19th November 2019. Photographs taken from the site visit are presented in Appendix B.</p> <p>The Site is split into three areas as indicated on Drawing 002.</p> <p>Area 1 is located in the northeast of the Site and is surfaced with a mixture of tarmac and gravel. A helipad is present towards the centre of this area.</p>
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	<p>At the time of inspection, Area 1 was being used for an ad-hoc overflow car parking, with shipping containers also stored in the north of the Site. It is understood that this area has historically been used as a compound for contractors during construction and demolition works that have taken place across the wider refinery. A tiled floor possibly indicative of the presence of a former building were noted in the container storage area, although no evidence of such feature is recorded on historic mapping.</p> <p>Area 2 is located in the west of the Site and is predominantly grass surfaced, bisected by concrete and macadam roads and footpaths. A macadam helipad is located toward the northwest of the area. A shed containing an electrical substation is located in the south of the area.</p> <p>Area 3 is located in the southeast of the site and was entirely grass surfaced. This area sloped steeply towards the off-site refinery access road, with a ditch present along the southern boundary (falling south-eastwards off-site); at the time of inspection the ditch appeared to be dry. Mature trees were noted adjacent to the ditch although the species were not readily identifiable.</p> <p>Across all area's hardstanding appeared to be in generally good condition (where present) and there was no visual or olfactory evidence of ground contamination noted.</p> <p><u>Drainage Review</u></p> <p>Topographically the Site was observed to fall generally south and south-eastwards with surface run off envisaged to flow towards a ditch along part of the southern boundary, flowing off-site eastwards.</p>
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	None available
Baseline soil and groundwater reference data	The Envirocheck Report provides estimates of soil chemistry for the area.
Supporting information	Appendix A – Envirocheck Report

3.0 PERMITTED ACTIVITIES	
Permitted activities	Household, Commercial and Industrial Waste Transfer Station (WTS), Household Waste Recycling Centre (HWRC) and vehicle depot with treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing or compaction of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.

	<p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p> <p>R4: Recycling/reclamation of metals and metal compounds.</p> <p>R5: Recycling or reclamation of other inorganic materials.</p> <p>R13: Storage of wastes pending the operations numbered R3 and R5.</p> <p>D9: Physico chemical treatment</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13.</p> <p>D15: Storage pending any of the operations numbered D1 to D14.</p>
Non-permitted activities undertaken	Waste collection vehicle storage
<p>Document references for:</p> <ul style="list-style-type: none"> • Plan showing activity layout; and • Environmental risk assessment. 	<p>Drawing 001 - Site Location Drawing 002 - Environmental Permit Boundary and Site Layout Drawing 003 – Sources, Pathways and Receptors Drawing 004 – Cultural and Natural Heritage Table 1 - Environmental Risk Assessment</p>

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach. It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

3 Closure

This report has been prepared within an agreed timeframe and to an agreed budget that will necessarily apply some constraints on its content and usage. The remarks below are presented to assist the reader in understanding the context of this report and any general limitations or constraints.

If there are any specific limitations and constraints, they are described in the report text. The opinions and recommendations expressed in this report are based on statute, guidance, and best practice current at the time of its publication. Peter Brett Associates LLP (PBA) does not accept any liability whatsoever for the consequences of any future legislative changes or the release of subsequent guidance documentation, etc. Such changes may render some of the opinions and advice in this report inappropriate or incorrect and the report should be returned to us and reassessed if required for re-use after one year from date of publication. Following delivery of the report PBA has no obligation to advise the Client or any other party of such changes or their repercussions.

Some of the conclusions in this report may be based on third party data. No guarantee can be given for the accuracy or completeness of any of the third party data used. Historical maps and aerial photographs provide a “snap shot” in time about conditions or activities at the site and cannot be relied upon as indicators of any events or activities that may have taken place at other times.

The conclusions and recommendations made in this report and the opinions expressed are based on the information reviewed and/or the ground conditions encountered in exploratory holes and the results of any field or laboratory testing undertaken. There may be ground conditions at the site that have not been disclosed by the information reviewed or by the investigative work undertaken. Such undisclosed conditions cannot be taken into account in any analysis and reporting.

This report has been written for the sole use of the Client stated at the front of the report in relation to a specific development or scheme. The conclusions and recommendations presented herein are only relevant to the scheme or the phase of project under consideration. This report shall not be relied upon or transferred to any other party without the express written authorisation of PBA. Any such party relies upon the report at its own risk.

The interpretation carried out in this report is based on scientific and engineering appraisal carried out by suitably experienced and qualified technical consultants based on the scope of our engagement. We have not taken into account the perceptions of, for example, banks, insurers, other funders, laypeople, etc., unless the report has been prepared specifically for that purpose. Advice from other specialists may be required such as the legal, planning and architecture professions, whether specifically recommended in our report or not.

Public or legal consultations or enquiries, or consultation with any Regulatory Bodies (such as the Natural Resources Wales or Local Authority) have taken place only as part of this work where specifically stated.

References

Natural Resources Wales – Environmental Permitting Regulations, Guidance for Applicants H5: Site Condition Report, guidance and templates; v5 October 2014.

Mapapps.bgs.ac.uk. (2019). *Geology of Britain viewer | British Geological Survey (BGS)*. [online] Available at: <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> [Accessed 26 Nov 2019].

LIG (2019) Envirocheck Report, Site at Puma Energy UK Ltd, Robeston West, Milford Haven, SA73 3FB. Report 2224812314_1, Landmark Information Group, Exeter.

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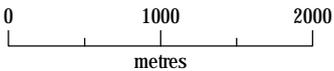
Figures

Figure 1 – Site Location Plan

Figure 2 – Site Layout Plan

Figure 3 – Sources, Pathways and Receptors

Figure 4 – Cultural and Natural Heritage



Site Grid Ref: SM 889 093

PEMBROKESHIRE COUNTY COUNCIL ECO-PARK SITE LOCATION PLAN

Client Pembrokeshire County Council Cynllwr Sir Benfro	
Date of 1st Issue 27.11.2019	Drawn by davco
A4 Scale 1:2000	Checked by MG
Figure Number 001	

Contains Ordnance Survey data © Crown copyright and database right 2018

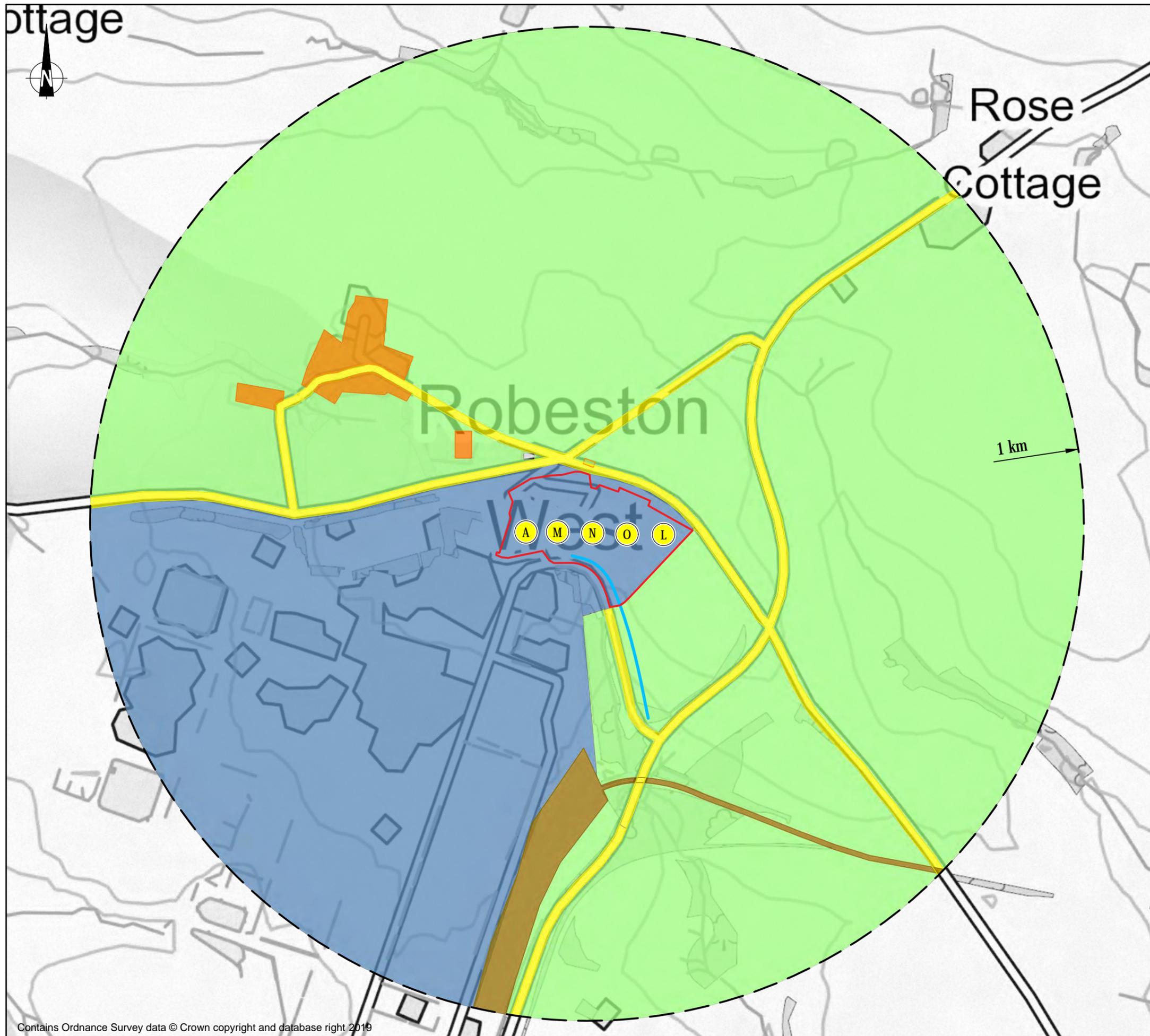


Key
 Approximate Site Boundary

PEMBROKESHIRE COUNTY
 COUNCIL ECO-PARK
 SITE LAYOUT PLAN

Client Pembrokeshire County Council Cynghor Sir Benfro	
Date of 1st Issue 27.11.2019	Drawn by davco
A3 Scale 1:2000	Checked by MG
Figure Number 002	

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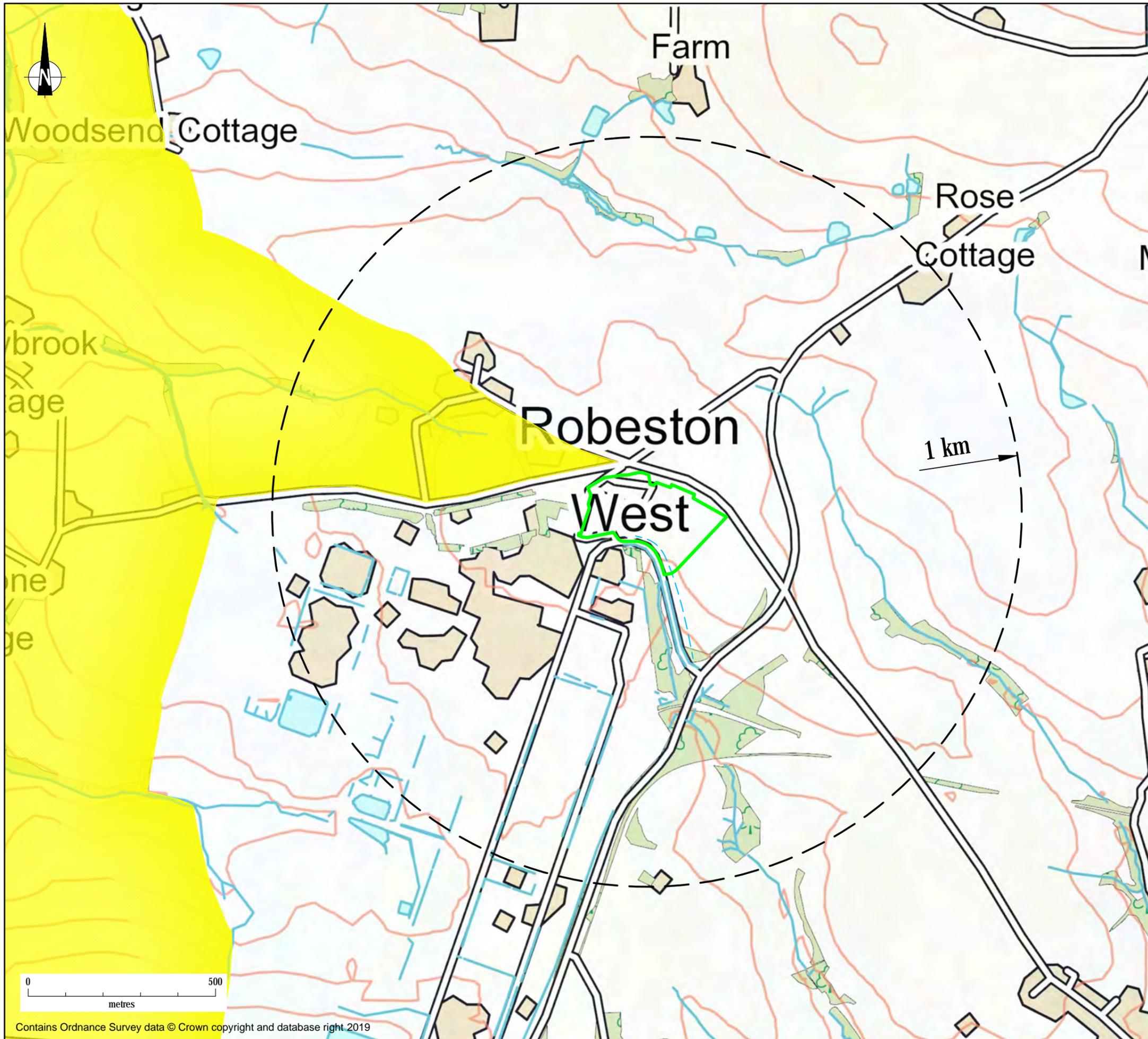
- Key**
- Approximate Site Boundary
 - Surface Water Feature
 - Railway
 - Roads
 - Residential
 - Agricultural / Open Space
 - Industrial / Commercial

- Sources**
- A Airborne Emissions
 - M Mud on Road
 - N Noise
 - O Odour
 - L Litter

PEMBROKESHIRE COUNTY COUNCIL
 ECO-PARK
 SOURCE, PATHWAYS AND RECEPTORS

Client Pembrokeshire County Council Cynghor Sir Baileys	
Date of 1st Issue 27.11.2019	Drawn by davco
A3 Scale nts	Checked by MG
Figure Number 003	

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- Key
-  Environmental Permit Boundary
 -  Pembrokeshire Coast National Park

PEMBROKESHIRE COUNTY COUNCIL
 ECO-PARK
 CULTURAL AND NATURAL HERITAGE



Date of 1st Issue: 27.11.2019
 A3 Scale: 1:10 000



Drawn by: davco
 Checked by: MG

Figure Number: 004

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Appendix A Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

224812314_1_1

Customer Reference:

47244

National Grid Reference:

189010, 209300

Slice:

A

Site Area (Ha):

5.8

Search Buffer (m):

1000

Site Details:

Site at
Puma Energy UK Ltd,
Robeston West
MILFORD HAVEN
SA73 3FB

Client Details:

Ms K Riley
Peter Brett Associates LLP
Caversham Bridge House
Waterman Place
Reading
Berkshire
RG1 8DN

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Waste	37
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 1		13		4
Integrated Pollution Prevention And Control	pg 4				8
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 8		Yes		
Pollution Incidents to Controlled Waters	pg 8		1		8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 9		3		2
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				8 (*11)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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		7	39	139

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 37	1			
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 37				2
Local Authority Landfill Coverage	pg 37	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 37	1	1	3	3
Registered Landfill Sites	pg 38				2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 38		1	1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 40				6
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 41	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 41	Yes			Yes
BGS Recorded Mineral Sites					
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 41	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 41	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 41	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 41	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 42		3	20	52
Points of Interest - Public Infrastructure	pg 48				7
Points of Interest - Recreational and Environmental					
Gas Pipelines	pg 48				1
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 49			1	1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 49	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 49		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Elf Oil (Uk) Ltd Property Type: Not Supplied Location: Input Tee Elf Refinery Milford Have, Milford Haven Authority: Natural Resources Wales Catchment Area: HUBERSTON PILL - HEADWATERS TO TIDAL LIMIT Reference: BN0024004 Permit Version: 1 Effective Date: 22nd June 1977 Issued Date: 22nd June 1977 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Hubberston Pill Status: Effective Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	874	2	188900 208300
2	<p>Discharge Consents</p> <p>Operator: Pembrokeshire County Council Property Type: Sewage Disposal Works Location: Robeston West Stw Haverfordwest Authority: Natural Resources Wales Catchment Area: SANDY HAVEN PILL Reference: BP0257201 Permit Version: 1 Effective Date: 13th November 1995 Issued Date: 13th November 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Sandyhave Status: Effective Positional Accuracy: Located by supplier to within 100m</p>	A19NE (NE)	912	2	189700 210090
3	<p>Discharge Consents</p> <p>Operator: Elf Oil (Uk) Ltd Property Type: Mineral Oil Processing Location: Elf Refinery Milford Haven Authority: Natural Resources Wales Catchment Area: Sandyhaven Pill Reference: Bp0072501 Permit Version: 1 Effective Date: 18th April 1988 Issued Date: 18th April 1988 Revocation Date: 6th June 1994 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Tributary Sandy Haven Pill Status: Revoked and replaced by IPC Authorisation Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SW)	989	2	188200 208500
4	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: PO Box 10, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: Bu6182 Dated: 28th May 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	94	3	188864 209168
4	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: PO Box 10, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: Bt2955 Dated: 26th September 2002 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	94	3	188864 209168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: PO Box 10, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: Br5256 Dated: 25th June 2002 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: Bi1455 Dated: 5th January 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BH9868 Dated: 10th March 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BH7067 Dated: 9th March 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BH6460 Dated: 13th January 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BH1166 Dated: 4th January 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168
4	Integrated Pollution Controls Name: Murco Petroleum Ltd Location: Milford Haven Refinery, Po Box 10, MILFORD HAVEN, DYFED, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BF1602 Dated: 28th January 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	94	3	188864 209168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: Milford Haven Refinery, Po Box 10, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: BD1199 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	94	3	188864 209168
4	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: AQ9626 Dated: 20th July 1996 Process Type: IPC major (substantial) variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	94	3	188864 209168
4	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: AF7886 Dated: 11th January 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	94	3	188864 209168
4	<p>Integrated Pollution Controls</p> <p>Name: Elf Oil UK Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: AY1102 Dated: 11th February 1997 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Application has met the requirements for authorisation (but not yet authorised) Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	104	3	188864 209158
5	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: Total Milford Haven Refinery Ltd, Milford Haven, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: CA8884 Dated: 10th October 2007 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Revoked - Now IPPC Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	609	3	188600 208700
6	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: P O Box 10, Milford Haven, Dyfed, Sa73 3jd Authority: Environment Agency, Welsh Region Permit Reference: By5269 Dated: 30th November 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	627	3	188668 208658
6	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: PO Box 10, Milford Haven, Dyfed, Sa73 3jd Authority: Environment Agency, Welsh Region Permit Reference: By3827 Dated: 30th September 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	627	3	188668 208658



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Controls</p> <p>Name: Murco Petroleum Ltd Location: PO Box 10, Milford Haven, Dyfed, Sa73 3jd Authority: Environment Agency, Welsh Region Permit Reference: Bx9129 Dated: 9th July 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.4 A (A) Petroleum processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	628	3	188666 208657
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: CP3639XE Original Permit Ref: Ap3830xq Effective Date: 18th December 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the address or location Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 1.1 A(1) (B) (I) Activity Description: Combustion; Recovered Oil Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 1.2 A(1) k) Activity Description: Odourising Natural Gas Or Liquified Petroleum Gas Where That Activity Is Related To a Part A Activity Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 1.2 B c) Activity Description: Gasification, Liquifac. And Refining; Petrol Storage Primary Activity: N</p>	A7SE (SW)	814	2	188538 208504
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Milford Haven Refinery Location: Milford Haven Refinery, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, Sa73 3jd Authority: Natural Resources Wales Permit Reference: AP3830XQ Original Permit Ref: Tp3632vv Effective Date: 26th October 2016 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2 PART A (1) H) (I) Activity Description: Not Supplied Primary Activity: Y Activity Code: 5.4 PART A (1) A) (II) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.3 PART A (1) A) (I) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.4 PART A (1) A) (I) Activity Description: Not Supplied Primary Activity: N</p>	A7SE (SW)	832	2	188500 208500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery Epr/Ap3830xq/V006, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: TP3632VV Original Permit Ref: Ap3830xq Effective Date: 15th July 2014 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 5.3 A(1) a) (i) Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N</p>	A7SE (SW)	832	2	188500 208500
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery Epr/Ap3830xq/V006, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: DP3031ZN Original Permit Ref: Ap3830xq Effective Date: 21st March 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 5.3 A(1) a) (i) Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT Primary Activity: N</p>	A7SE (SW)	832	2	188500 208500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery Epr/Ap3830xq/V005, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: XP3738ZN Original Permit Ref: Ap3830xq Effective Date: 12th March 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2 B c) Activity Description: Gasification, Liquifac. And Refining; Petrol Storage Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 1.2 A(1) k) Activity Description: Odourising Natural Gas Or Liquefied Petroleum Gas Where That Activity Is Related To a Part A Activity Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 1.1 A(1) (B) (I) Activity Description: Combustion; Recovered Oil Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N</p>	A7SE (SW)	832	2	188500 208500
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery Ea/Epr/Ap3830xq/V004, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: NP3334KY Original Permit Ref: Ap3830xq Effective Date: 15th January 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2 B c) Activity Description: Gasification, Liquifac. And Refining; Petrol Storage Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N Activity Code: 1.1 A(1) (B) (I) Activity Description: Combustion; Recovered Oil Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 1.2 A(1) k) Activity Description: Odourising Natural Gas Or Liquefied Petroleum Gas Where That Activity Is Related To a Part A Activity Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y</p>	A7SE (SW)	832	2	188500 208500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Murco Petroleum Limited Location: Milford Haven Refinery Ea/Epr/Ap3830xq/V003, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: LP3233KE Original Permit Ref: Ap3830xq Effective Date: 10th August 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (I) Activity Description: Combustion; Recovered Oil Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N Activity Code: 1.2 A(1) k Activity Description: Odourising Natural Gas Or Liquefied Petroleum Gas Where That Activity Is Related To a Part A Activity Primary Activity: N Activity Code: 1.2 B c) Activity Description: Gasification, Liquifac. And Refining; Petrol Storage Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N</p>	A7SE (SW)	832	2	188500 208500
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Total Uk Ltd. Location: Milford Haven Refinery, Milford Haven Refinery, Milford Haven, Pembrokeshire, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: EP3838LG Original Permit Ref: Ep3838lg Effective Date: 30th October 2007 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned within the geographical locality Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N Activity Code: 4.2 A(1) (A) (V) Activity Description: Inorganic Chemicals; Non Metals Etc Eg Calcium Carbide Primary Activity: N Activity Code: 1.2 B c) Activity Description: Gasification, Liquifac. And Refining; Petrol Storage Primary Activity: N Activity Code: 1.2 A(1) k) Activity Description: Odourising Natural Gas Or Liquefied Petroleum Gas Where That Activity Is Related To a Part A Activity Primary Activity: N Activity Code: 1.2 A(1) (H) (I) Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: N Activity Code: 1.2 A(1) g) Activity Description: Refining Mineral Oils Primary Activity: N Activity Code: 1.1 A(1) (B) (I) Activity Description: Combustion; Recovered Oil Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N</p>	A7SE (SW)	866	2	188542 208447

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13SW (SW)	11	-	188958 209241
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Milford Haven Dock Entrance, MILFORD HAVEN Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Not Supplied Incident Date: 29th October 1996 Incident Reference: 30397 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	199	3	189400 209400
10	Pollution Incidents to Controlled Waters Property Type: Pipelines (Long Distance Only) Location: Elf Refinery Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 8th May 1995 Incident Reference: 23879 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	776	3	188900 208400
10	Pollution Incidents to Controlled Waters Property Type: Pipelines (Long Distance Only) Location: Refinery Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 8th May 1995 Incident Reference: 23879 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	781	3	188900 208395
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: ROBESTON WEST Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Inadequate Design/Capacity Incident Date: 24th July 1996 Incident Reference: 29238 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	839	3	189701 210001
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Thorntons Reservoir Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Not Supplied Incident Date: 25th May 1995 Incident Reference: 24112 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	862	3	189100 208300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Passes Through Phorton Farm Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: St Botolphs Stream/Hubberston Pill; Leakage Incident Date: 27th August 1997 Incident Reference: 33562 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	867	3	189100 208295
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Goes Through Property, (Elf Oil) Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: St Botolphs Stream/Hubberston Pill; Leakage Incident Date: 27th August 1997 Incident Reference: 33562 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	867	3	189105 208295
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Meadow View, ROATH Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Inadequate Design/Capacity Incident Date: 4th July 1996 Incident Reference: 28969 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	908	3	189700 210085
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Gwyngaen Farm, ROBESTON WEST Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Not Supplied Incident Date: 4th June 1996 Incident Reference: 28613 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	911	3	189705 210085
14	Registered Radioactive Substances Name: Elf Oil Uk Ltd Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Environment Agency, Welsh Region Permit Reference: AK9437 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	117	3	188798 209151
14	Registered Radioactive Substances Name: Elf Oil (Uk) Ltd (Dissolved) Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: AM9608 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	118	2	188792 209152



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p>Registered Radioactive Substances</p> <p>Name: Elf Oil (Uk) Ltd (Dissolved) Location: P O Box 10, Milford Haven Refinery, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: AM7826 Dated: 5th April 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	123	2	188793 209147
15	<p>Registered Radioactive Substances</p> <p>Name: Murco Petroleum Ltd Location: Milford Haven Refinery, Milford Haven, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: CB9266 Dated: 2nd January 2008 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	609	2	188600 208700
15	<p>Registered Radioactive Substances</p> <p>Name: Murco Petroleum Ltd Location: Milford Haven Refinery, Milford Haven, Dyfed, SA73 3JD Authority: Natural Resources Wales Permit Reference: CB9274 Dated: 2nd January 2008 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	609	2	188600 208700
16	<p>Water Abstractions</p> <p>Operator: M D & D M Hayward Licence Number: 22/61/5/0087 Permit Version: 100 Location: Reservoir At Upper Sydney Lodge Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Reservoir At Upper Sydney Lodge Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	700	2	188930 210130
16	<p>Water Abstractions</p> <p>Operator: M D & D M Hayward Licence Number: 22/61/5/0087 Permit Version: Not Supplied Location: Land At Upper Sydney Lodge Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	700	2	188930 210130



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<p>Water Abstractions</p> <p>Operator: Not Supplied Licence Number: 22/61/6/0014 Permit Version: Not Supplied Location: Spray Irrigation Land At Broomhill And Kilpaison Farms, Land At Broomhill And Kilpaison Farms, Angle, Pembroke, Pembrokeshire, Sa71 5aj Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	717	2	188810 210130
17	<p>Water Abstractions</p> <p>Operator: Brian Eric & Barry John Hathway Licence Number: 22/61/6/0014 Permit Version: Not Supplied Location: Spray Irrigation Land At Broomhill And Kilpaison Farms, Land At Broomhill And Kilpaison Farms, Angle, Pembroke, Pembrokeshire, Sa71 5aj Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	717	2	188810 210130
18	<p>Water Abstractions</p> <p>Operator: D G Davies Licence Number: 22/61/5/0077 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	872	2	188900 210300
19	<p>Water Abstractions</p> <p>Operator: A.J Davies & Sons Licence Number: 22/61/5/0011 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 3409.5 Details: Stream Feeding Reservoir Near Hook Farm Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A23SE (N)	961	3	189070 210390



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<p>Water Abstractions</p> <p>Operator: M D & D M Hayward Licence Number: 22/61/5/0078 Permit Version: 100 Location: Unnamed Stream To Form Reservoir At Upper Sydney Lodge Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: East Bank Of Reservoir At Upper Sydney Lodge Authorised Start: 01 November Authorised End: 30 March Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A23SW (N)	981	2	188900 210410
20	<p>Water Abstractions</p> <p>Operator: M D & D M Hayward Licence Number: 22/61/5/0078 Permit Version: Not Supplied Location: Land At Upper Sydney Lodge Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23SW (N)	981	2	188900 210410
	<p>Water Abstractions</p> <p>Operator: Capestone Organic Poultry Limited Licence Number: Wa/061/0005/010 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Other Environmental Improvements: General use relating to Secondary Category (Low Loss) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A4SW (SE)	1563	2	189673 207720
	<p>Water Abstractions</p> <p>Operator: Messers Knight Dalton & Bridges Licence Number: 22/61/5/0103 Permit Version: 100 Location: St Botolph'S Reservoir Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: St Botolph's Reservoir Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(S)	1588	2	189350 207600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Messers Knight Dalton & Bridges Licence Number: 22/61/5/0103 Permit Version: Not Supplied Location: Land At Lodge Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(S)	1588	2	189350 207600
	<p>Water Abstractions</p> <p>Operator: Mr J Scale Licence Number: 22/61/5/0122 Permit Version: 100 Location: Stream Fed Reservoir At Capeston Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Nov to 31-Mar Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 22nd January 1985 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1801	2	187140 209950
	<p>Water Abstractions</p> <p>Operator: J W Scale Licence Number: 22/61/5/0122 Permit Version: Not Supplied Location: Land At Capeston Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(W)	1801	2	187140 209950
	<p>Water Abstractions</p> <p>Operator: Mr J Scale Licence Number: 22/61/5/0004 Permit Version: 100 Location: Reservoir Fed By Rickerston Bridge Stream-Old Reservoir Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Reservoir Fed By Rickerston Bridge Stream-Oldreservoir Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1855	2	187020 209700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: J W Scale Licence Number: 22/61/5/0004 Permit Version: Not Supplied Location: Land At Capeston Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(W)	1855	2	187020 209700
	<p>Water Abstractions</p> <p>Operator: J W Scale Licence Number: 22/61/5/0122 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 721 Yearly Rate (m3): 18184 Details: Stream Fed Reservoir At Capeston Farm Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1903	3	186930 209450
	<p>Water Abstractions</p> <p>Operator: A.J Davies & Sons Licence Number: 22/61/5/0011 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 3409.5 Details: Reservoir At Romans Castle Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(N)	1948	3	189390 211340
	<p>Water Abstractions</p> <p>Operator: Mr P Williams Licence Number: 22/61/5/0155 Permit Version: 100 Location: Unnamed Trib Of The Sandy Haven Pill Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(NW)	1986	3	187730 211030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Peter Williams Licence Number: 22/61/5/0154 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1986	2	187730 211030
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (W)	0	2	189000 209303
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (N)	0	2	189014 209303
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	2	189014 209303
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 394.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SW (S)	11	4	188990 209236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SE (S)	19	4	189061 209142
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 317.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SE (S)	26	4	189043 209137
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SW (S)	68	4	188962 209134
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SW (SW)	112	4	188926 209138
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A13SW (SW)	188	4	188858 209073
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A13SW (SW)	202	4	188894 209040
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	251	4	189113 208916
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	263	4	189147 208911
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1384.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A14NW (E)	298	4	189508 209392

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12NE (NW)	304	4	188583 209533
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	314	4	189033 208847
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	318	4	189040 208843
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	318	4	189185 208866
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	318	4	189159 208857
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	325	4	189042 208835
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18SE (NE)	332	4	189301 209662
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	335	4	189089 208827
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	336	4	189156 208838



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	336	4	189156 208838
41	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 North and St Brides North Primacy: 1	A8NW (S)	353	4	188879 208850
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A14NW (NE)	356	4	189450 209585
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	357	4	188939 208823
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A14NW (NE)	358	4	189451 209587
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 390.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A14NW (NE)	358	4	189451 209587
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	358	4	188868 208853
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (SW)	361	4	188830 208879
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	363	4	188857 208857

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12NE (NW)	365	4	188513 209528
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	368	4	189095 208795
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	375	4	189087 208787
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	375	4	189087 208787
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	378	4	189096 208785
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 844.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12NE (NW)	379	4	188503 209541
55	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 North and St Brides North Primacy: 1	A8NW (SW)	380	4	188774 208884
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	383	4	189101 208780
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	387	4	188905 208804

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	390	4	188904 208802
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	394	4	189115 208771
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 318.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NE (S)	401	4	189125 208766
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	408	4	188923 208774
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	430	4	188915 208754
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A8NW (S)	451	4	188994 208714
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SE (W)	460	4	188376 209167
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SE (W)	471	4	188369 209147
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	495	4	188869 208702

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (S)	502	4	188866 208695
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	510	4	188340 209108
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8NW (SW)	518	4	188714 208758
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	520	4	188344 209069
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A8NW (S)	538	4	188967 208630
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	547	4	188281 209198
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (SW)	559	4	188328 209011
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	576	4	188866 208616
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	582	4	188259 209132

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	602	4	188254 209075
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NE (N)	602	4	189243 209984
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	609	4	188266 209024
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	618	4	188827 208586
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 309.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NE (N)	625	4	189094 210050
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	634	4	188822 208571
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NE (SW)	638	4	188676 208644
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NE (N)	641	4	189279 210013
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 287.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7NE (SW)	642	4	188653 208646

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	644	4	188819 208562
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 700.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	646	4	188920 208529
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7NE (SW)	649	4	188577 208667
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7NE (SW)	652	4	188539 208680
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	654	4	188170 209284
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	656	4	188191 209097
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	657	4	188344 208819
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	661	4	188243 208953
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	662	4	188184 209099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A19NW (NE)	664	4	189396 209985
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	666	4	188158 209265
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	668	4	188156 209260
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 397.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A19NW (NE)	668	4	189400 209987
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7NE (SW)	669	4	188453 208711
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	670	4	189215 208509
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NE (SW)	675	4	188417 208729
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 214.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NW (N)	675	4	188919 210104
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	683	4	188830 208516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A18NW (N)	684	4	188931 210115
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	686	4	189241 208499
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	690	4	188337 208778
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	693	4	188135 209197
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	693	4	189266 208498
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	694	4	188657 208591
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	695	4	188328 208781
110	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 71.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A18NW (N)	695	4	188913 210124
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	697	4	188131 209187

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	698	4	188333 208771
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	700	4	188333 208769
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	700	4	188129 209181
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A12SW (W)	700	4	188129 209181
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	701	4	188800 208508
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	709	4	188329 208761
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	721	4	189245 208463
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	723	4	189199 208452
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	725	4	188517 208610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	726	4	188113 209123
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	727	4	188111 209128
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	729	4	188110 209124
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	745	4	189249 208439
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	748	4	188517 208585
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	750	4	189229 208430
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	752	4	188508 208585
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	757	4	188307 208715
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	757	4	188307 208715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	758	4	188609 208537
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	760	4	189253 208425
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	765	4	188515 208567
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	779	4	188190 208815
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	781	4	188047 209191
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	789	4	188626 208499
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	793	4	189293 208401
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 391.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NW (N)	795	4	188781 210205
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A18NW (N)	795	4	188781 210205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	797	4	188374 208610
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 354.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SE (S)	797	4	189296 208399
141	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 90.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A12SW (W)	804	4	188021 209228
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	805	4	188357 208612
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	806	4	188275 208678
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7NW (SW)	812	4	188289 208657
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	831	4	188280 208638
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	848	4	188581 208453
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	857	4	188463 208476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	858	4	188485 208479
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	864	4	188483 208473
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	868	4	188598 208423
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	869	4	188688 208371
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A8SW (S)	878	4	188722 208349
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	884	4	188043 208855
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	884	4	188477 208453
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A11SE (W)	885	4	187939 209262
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	885	4	188469 208456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	889	4	188369 208504
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	894	4	188227 208602
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A11SE (W)	895	4	187930 209265
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SW (N)	896	4	188842 210317
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 485.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A11SE (W)	899	4	187925 209267
162	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 40.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SW (N)	912	4	188849 210334
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	914	4	188030 208815
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	916	4	188029 208812
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	916	4	188029 208812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	918	4	188456 208426
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7NW (SW)	925	4	188012 208826
168	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SW (N)	927	4	188889 210355
169	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 North and St Brides North Primacy: 1	A23SW (N)	927	4	188889 210355
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	929	4	188377 208452
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (S)	930	4	188645 208326
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (S)	933	4	188624 208333
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	934	4	187995 208839
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (S)	934	4	188620 208334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SE (N)	936	4	189080 210364
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SW (N)	936	4	188898 210364
177	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SW (N)	937	4	188869 210363
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 473.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A19SE (NE)	938	4	190001 209835
179	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	940	4	188315 208477
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	955	4	187995 208795
181	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A20SW (E)	956	4	190112 209658
182	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 86.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A20SW (E)	956	4	190113 209656
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	956	4	188008 208769

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	957	4	188007 208770
185	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	959	4	188304 208462
186	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	959	4	188304 208462
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	960	4	187974 208822
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	964	4	187997 208773
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	966	4	187973 208812
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	966	4	188387 208405
191	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A20SW (E)	969	4	190114 209690
192	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SE (N)	969	4	189052 210400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SE (N)	969	4	189052 210400
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A6NE (SW)	977	4	187950 208832
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	977	4	188436 208370
196	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A19NE (NE)	978	4	189710 210166
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 2	A7SE (SW)	981	4	188452 208359
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SE (SW)	983	4	188565 208309
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	984	4	188314 208426
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A17NE (NW)	985	4	188446 210294
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A7SW (SW)	985	4	188174 208528



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A19NE (NE)	989	4	189714 210176
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A23SE (N)	989	4	189070 210418
204	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 897.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A11NE (W)	991	4	187836 209339
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Milford North and St Brides North Primacy: 1	A3NW (S)	992	4	188728 208224

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	Historical Landfill Sites Licence Holder: Not Supplied Location: Herbrandston, Pembrokeshire Name: Total Elf Fina Refinery Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34474 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A13NW (N)	0	2	189014 209303
207	Licensed Waste Management Facilities (Locations) Licence Number: DP3195LV Location: Total Landfarm 7, MILFORD HAVEN SITE, Milford Haven, Pembrokeshire, Pembrokeshire, SA73 1DR Operator Name: Puma Energy Uk Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 1st July 2015 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	954	2	187947 208892
207	Licensed Waste Management Facilities (Locations) Licence Number: 34029 Location: P O Box 10, Milford Haven, SA73 1DR Operator Name: Murco Petroleum Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Treatment - Biological Licence Status: Modified Issued: 21st December 1990 Last Modified: 9th October 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	954	2	187947 208892
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	189014 209303
208	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SW (S)	0	9	189009 209261
209	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NE (NW)	235	9	188673 209544
210	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NE (NW)	374	9	188510 209543
211	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NE (NW)	444	9	188446 209571
212	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1939	A8NW (SW)	496	9	188714 208781
213	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NE (NW)	522	9	188380 209614
214	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12SW (W)	586	9	188267 209084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964</p>	A7NE (SW)	656	9	188406 208763
216	<p>Registered Landfill Sites</p> <p>Licence Holder: Amoco Uk Ltd Licence Reference: 003A Site Location: Milford Haven Refinery, P O Box 10, Milford Haven, Pembrokeshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Landfill - Sludge land farm Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Record supersededSuperseded Dated: 1st July 1978 Preceded By: Not Given Licence: Superseded By: 038 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Iron Oxide Scale Oil Contaminated Sludge Wastes Oil/Water Mixtures Spent Bauxite Spent Catalyst From Cracking Unit</p>	A7NE (SW)	632	3	188396 208803
217	<p>Registered Landfill Sites</p> <p>Licence Holder: Elf Oil U K Ltd Licence Reference: 038 Site Location: Milford Haven Refinery (Sludge Farm 7), P O Box 10, Milford Haven, Pembrokeshire Licence Easting: 188050 Licence Northing: 209000 Operator Location: Milford Haven Refinery, P O Box 22, MILFORD HAVEN, Pembrokeshire, SA73 1DR Authority: Environment Agency Wales, South West Area Site Category: Landfill - Sludge land farm Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Operational ? / IPC authAuthorised Dated: 21st December 1990 Preceded By: 005 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Oily Waste Arising On Site Prohibited Waste: Imported Waste (Except Occ.Spillage)</p>	A12SW (W)	819	3	188050 209000
218	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Elf (Gb) Oil Licence Reference: 005 Site Location: Milford Haven Refinery (Storage), P O Box 10, Milford Haven, Pembrokeshire Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Storage Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 20th October 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Aqueous Sodium Hydroxide Prohibited Waste: Highly Flam./Lpg Regs'72 Subs Percussive/Explosive/Similar Waste Special Wastes N.O.S. Sub'S Control. Radioactive Subs Act'60 Waste N.O.S.</p>	A13SW (S)	203	3	188925 209005



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Amoco Uk Ltd Licence Reference: 020 (WD 003B) Site Location: Amoco Refinery, Milford Haven, Pembrokeshire Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Storage Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1989 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Quality: Good Authorised Waste: Dimersal Spent Caustic Merox Spent Caustic</p>	A12SE (SW)	320	3	188556 209092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 15, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part C, Flammable Substance (Not in Parts A&B), All other liquid or liquids with flashpoint less than 21C, where amount held is >= 10,000 tonnes Maximum Quantity: 856117 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	888	6	188587 208406
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 10, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part A, Toxic Substance, Hydrogen fluoride, where amount held is greater than or equal to 10 tonnes Maximum Quantity: 55 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	891	6	188582 208406
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 14, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part C, Flammable Substance (Not in Parts A&B), Liquefied petroleum gas held at >1.4 bar where amount held is greater than or equal to 25 tonnes Maximum Quantity: 11009 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	892	6	188587 208401
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 11, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part A, Toxic Substance, Tetramethyl lead, where amount held is greater than or equal to 50 tonnes Maximum Quantity: 50 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	895	6	188582 208401
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 13, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part B, Highly Reactive and Explosive Substance, Hydrogen, where amount held is greater than or equal to 2 tonnes Maximum Quantity: 3 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	897	6	188587 208396
220	<p>Planning Hazardous Substance Consents</p> <p>Name: Elf Oil UK Ltd Location: Milford Haven Refinery, Po Box 12, MILFORD HAVEN, Dyfed, SA73 3JD Authority: Pembrokeshire County Council, Planning Department Application Ref: C2/317 HSA Hazardous Substance: Part A, Toxic Substance, Tetraethyl lead, where amount held is greater than or equal to 50 tonnes Maximum Quantity: 50 Application date: 1st October 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	899	6	188582 208396

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pridoli Rocks (Undifferentiated)	A13NW (N)	0	1	189014 209303
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	0	1	189014 209303
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	881	1	189337 210247
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	189014 209303

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	226	8	188892 209005
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (S)	230	8	188901 208990
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	244	8	188844 209017
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (SW)	256	8	188848 209005
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (S)	274	8	188887 208944
221	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (SW)	300	8	188830 208961
221	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	311	8	188834 208942
222	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	276	8	188590 209121
222	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	357	8	188527 209070
223	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (S)	322	8	188867 208899
223	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (SW)	342	8	188813 208919
224	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	396	8	188949 208779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	Points of Interest - Manufacturing and Production Name: Oil Refinery Location: SA73 Category: Extractive Industries Class Code: Oil and Gas Extraction, Refinery and Product Manufacture Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	403	8	188443 209136
226	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (SW)	438	8	188779 208821
226	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	464	8	188783 208785
226	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (S)	470	8	188813 208758
226	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (SW)	485	8	188763 208773
226	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	531	8	188763 208717
226	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (SW)	549	8	188743 208709
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	473	8	188571 208868
227	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	473	8	188582 208861
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	479	8	188568 208862
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	484	8	188567 208857
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	504	8	188550 208844

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	504	8	188574 208829
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	505	8	188569 208831
227	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	505	8	188560 208837
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	506	8	188544 208846
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	522	8	188559 208817
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	524	8	188555 208818
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	530	8	188568 208803
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	532	8	188614 208778
227	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	539	8	188584 208784
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	552	8	188588 208768
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	555	8	188574 208772
227	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	593	8	188518 208759

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	602	8	188527 208743
227	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	607	8	188503 208752
228	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SE (W)	486	8	188351 209155
229	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	496	8	188344 209142
229	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	503	8	188341 209128
229	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	549	8	188316 209060
230	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (S)	538	8	188790 208692
231	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	579	8	188250 209192
231	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	604	8	188233 209143
231	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	655	8	188178 209161
232	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	643	8	188796 208572
232	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	656	8	188792 208560



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	660	8	188799 208552
232	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	663	8	188752 208571
232	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	689	8	188721 208558
233	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (SW)	674	8	188700 208588
233	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	731	8	188680 208533
234	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	676	8	188188 209039
234	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	709	8	188143 209070
234	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	716	8	188177 208962
234	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	750	8	188122 209005
235	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	696	8	188587 208612
235	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	771	8	188526 208556
236	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	708	8	188473 208652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	721	8	188733 208516
237	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	757	8	188772 208459
237	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	811	8	188767 208403
238	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	758	8	188122 208982
238	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	771	8	188152 208890
238	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	816	8	188089 208913
239	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	797	8	188659 208469
239	Points of Interest - Manufacturing and Production Name: Tanks Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	828	8	188673 208426
239	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	833	8	188696 208409
239	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	841	8	188644 208427
240	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	807	8	188551 208507
240	Points of Interest - Manufacturing and Production Name: Oil Refinery Location: SA73 Category: Extractive Industries Class Code: Oil and Gas Extraction, Refinery and Product Manufacture Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	874	8	188521 208446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	Points of Interest - Manufacturing and Production Name: Rose Cottage Farm Location: Robeston West, Milford Haven, SA73 3TN Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A19SE (NE)	817	8	189750 209935
242	Points of Interest - Manufacturing and Production Name: Tank Location: SA73 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	821	8	188434 208544
243	Points of Interest - Manufacturing and Production Name: Tank Location: SA62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	974	8	188499 208348
244	Points of Interest - Public Infrastructure Name: Sewage Works Location: SA73 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	729	8	188251 208817
245	Points of Interest - Public Infrastructure Name: Outfall Location: SA73 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	885	8	188307 208549
245	Points of Interest - Public Infrastructure Name: Outfall Location: SA73 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	893	8	188306 208540
245	Points of Interest - Public Infrastructure Name: Sluice Location: SA73 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	922	8	188272 208529
245	Points of Interest - Public Infrastructure Name: Outfall Location: SA62 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	955	8	188235 208516
246	Points of Interest - Public Infrastructure Name: Filter Bed Location: SA73 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	938	8	189739 210094
247	Points of Interest - Public Infrastructure Name: Spoil Heap Location: SA62 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	994	8	188041 208656
248	Gas Pipelines Name: FM28 - Herbrandston to Felindre Nat Grid: Owned By National Grid Diameter (mm): 1200 Building Proximity: 132 Distance (m): Status: Active Pipe Length (m): 104077.4 Pipe Number: Feeder 28	A3NE (S)	993	9	189235 208184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	<p>Ancient Woodland</p> <p>Name: Not Supplied Reference: 3801 Area(m²): 6221.92 Type: Restored Ancient Woodland Site</p>	A12NE (W)	392	2	188447 209372
250	<p>Ancient Woodland</p> <p>Name: Not Supplied Reference: 3802 Area(m²): 8605.14 Type: Restored Ancient Woodland Site</p>	A17SW (NW)	638	2	188267 209645
251	<p>Environmentally Sensitive Areas</p> <p>Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)</p>	A13NW (N)	0	10	189014 209303
252	<p>National Parks</p> <p>Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales Status: Fully Designated - designated as a National Park Designation Date: 31st December 1951</p>	A13NW (NW)	25	2	188926 209449

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 Natural Resources Wales	August 2014 July 2019	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Natural Resources Wales Environment Agency - Welsh Region	April 2019 July 2019	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Pembrokeshire County Council - Environmental Health Department	December 2015	Variable
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	Variable
Nearest Surface Water Feature Ordnance Survey	September 2019	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	July 2019 July 2019	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	July 2019 July 2019	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	July 2019 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	August 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	August 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South West Area Natural Resources Wales	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	July 2019 July 2019	Quarterly Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	March 2003	Not Applicable

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2019	Quarterly
Points of Interest - Education and Health PointX	September 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2019	Quarterly
Points of Interest - Public Infrastructure PointX	September 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2019 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2019	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

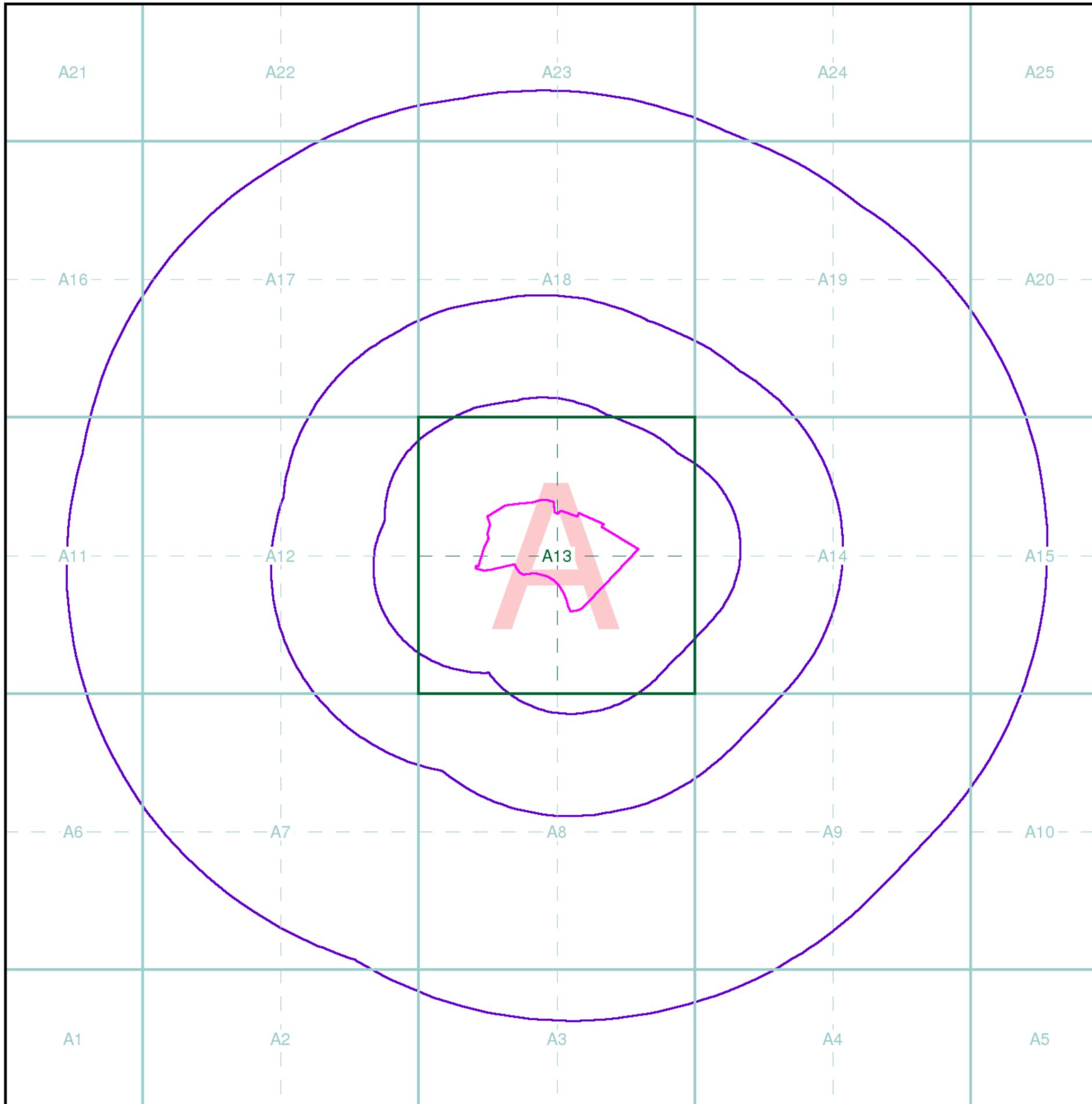
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	



Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	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	Pembrokeshire County Council - Planning Department Cambria House, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 760703 Website: www.pembrokeshire.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
10	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.



Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms K Riley, Peter Brett Associates LLP, Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN

Order Details

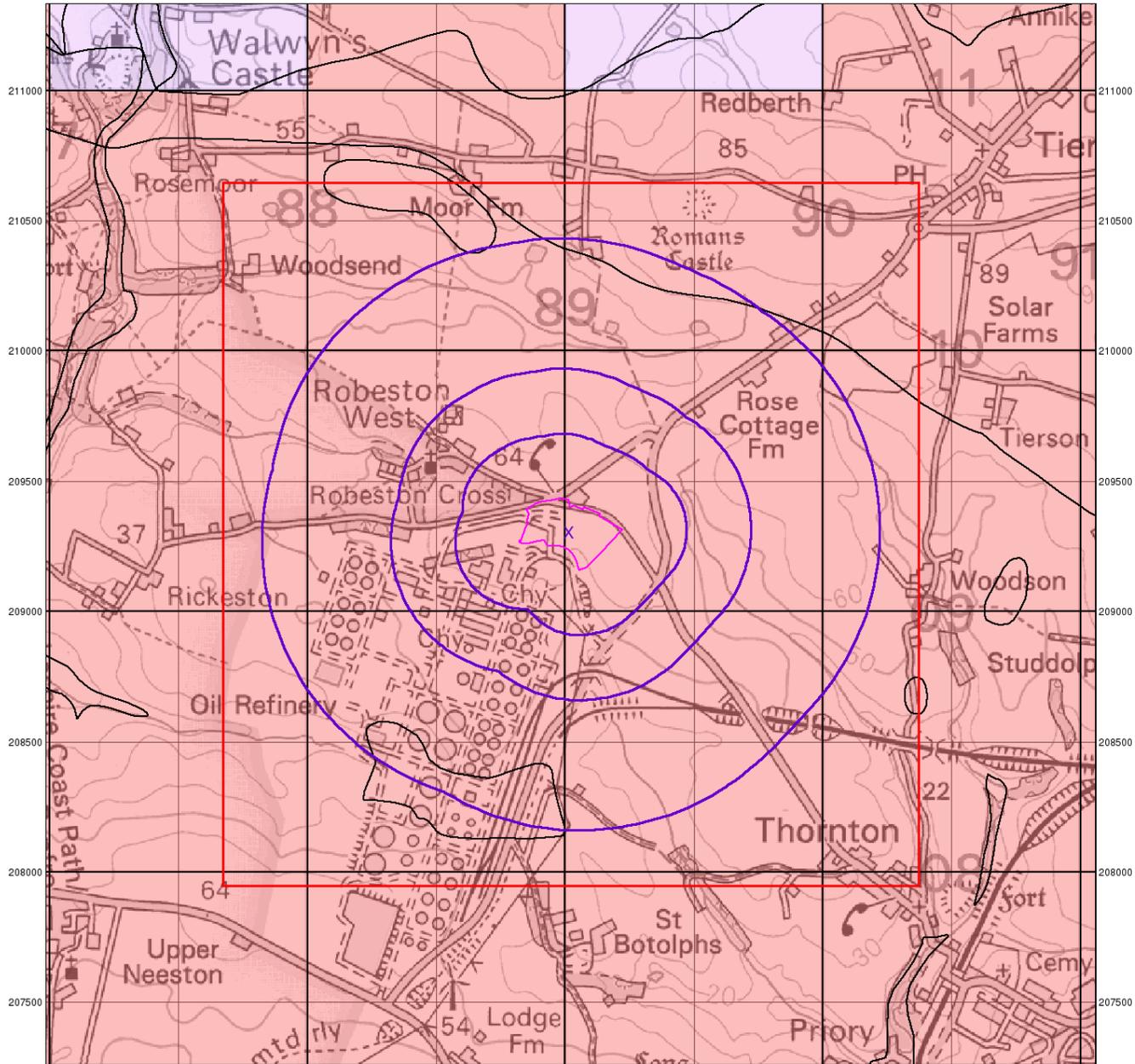
Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189020, 209310
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

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

187000 187500 188000 188500 189000 189500 190000 190500 191000



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Groundwater Vulnerability

General

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

Agency and Hydrological

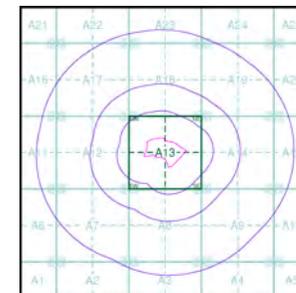
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer
- Soluble Rock

Superficial Aquifers

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

Site Sensitivity Context Map - Slice A

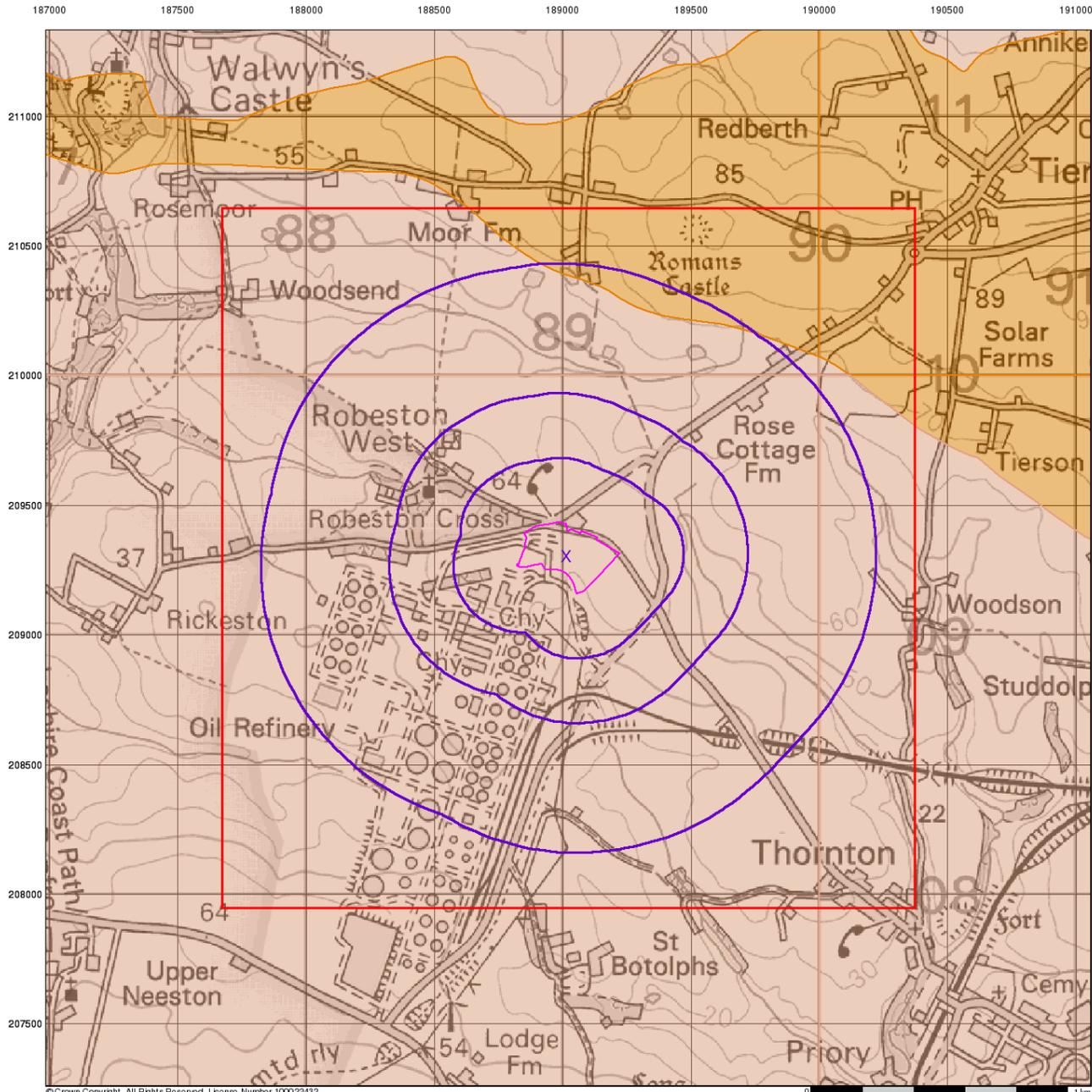


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



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0 1 km

Bedrock Aquifer Designation

General

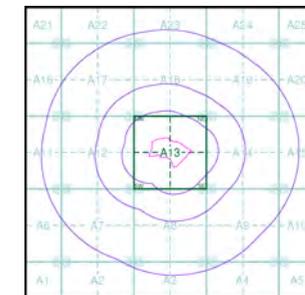
- ▭ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- ▭ Slice
- 8 Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

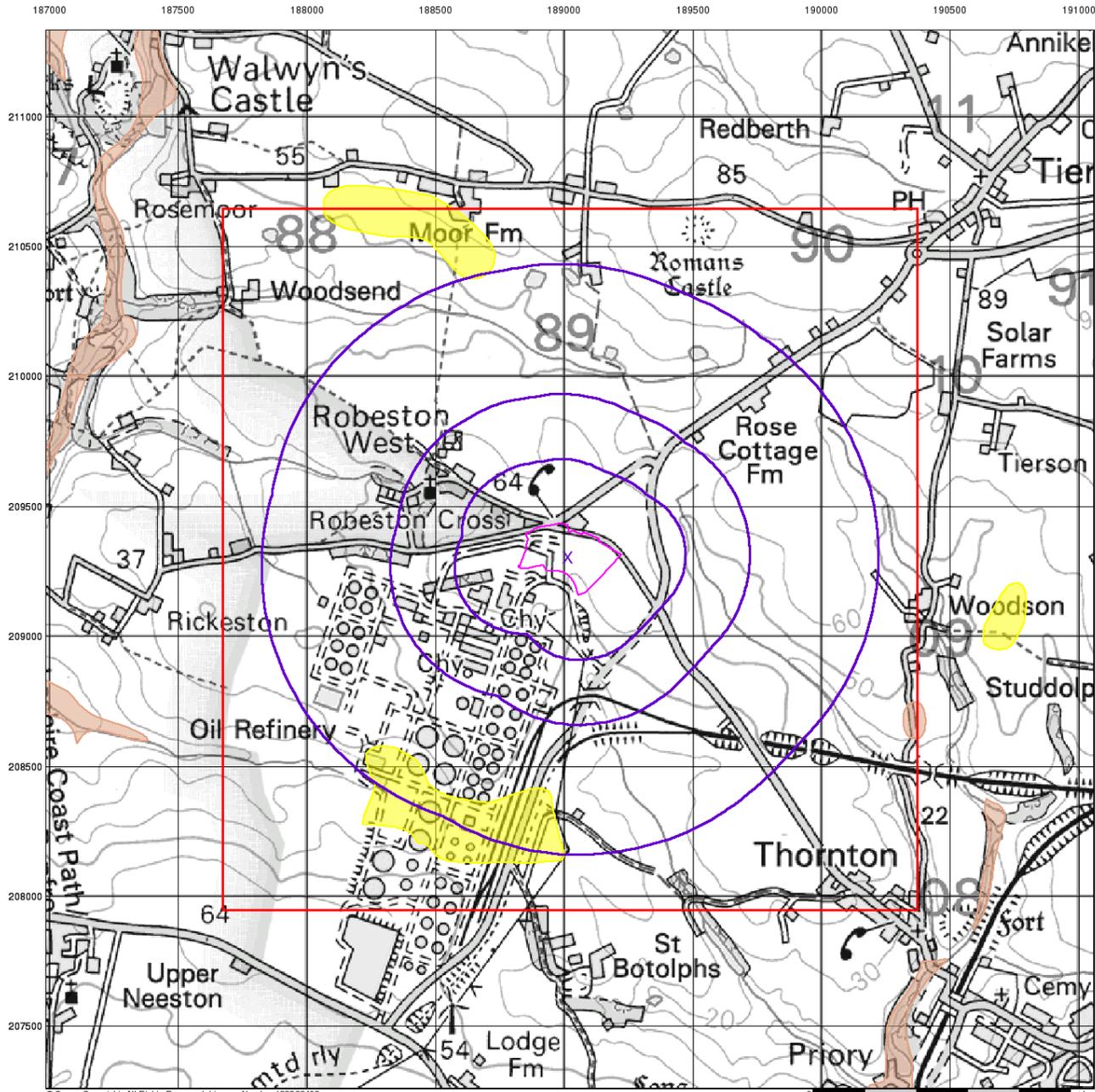


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



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Superficial Aquifer Designation

General

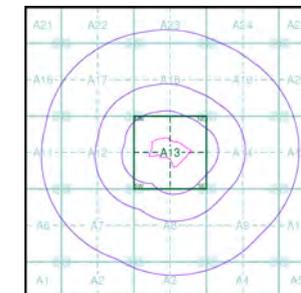
- ◆ Specified Site
- Specified Buffer(s)
- x Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

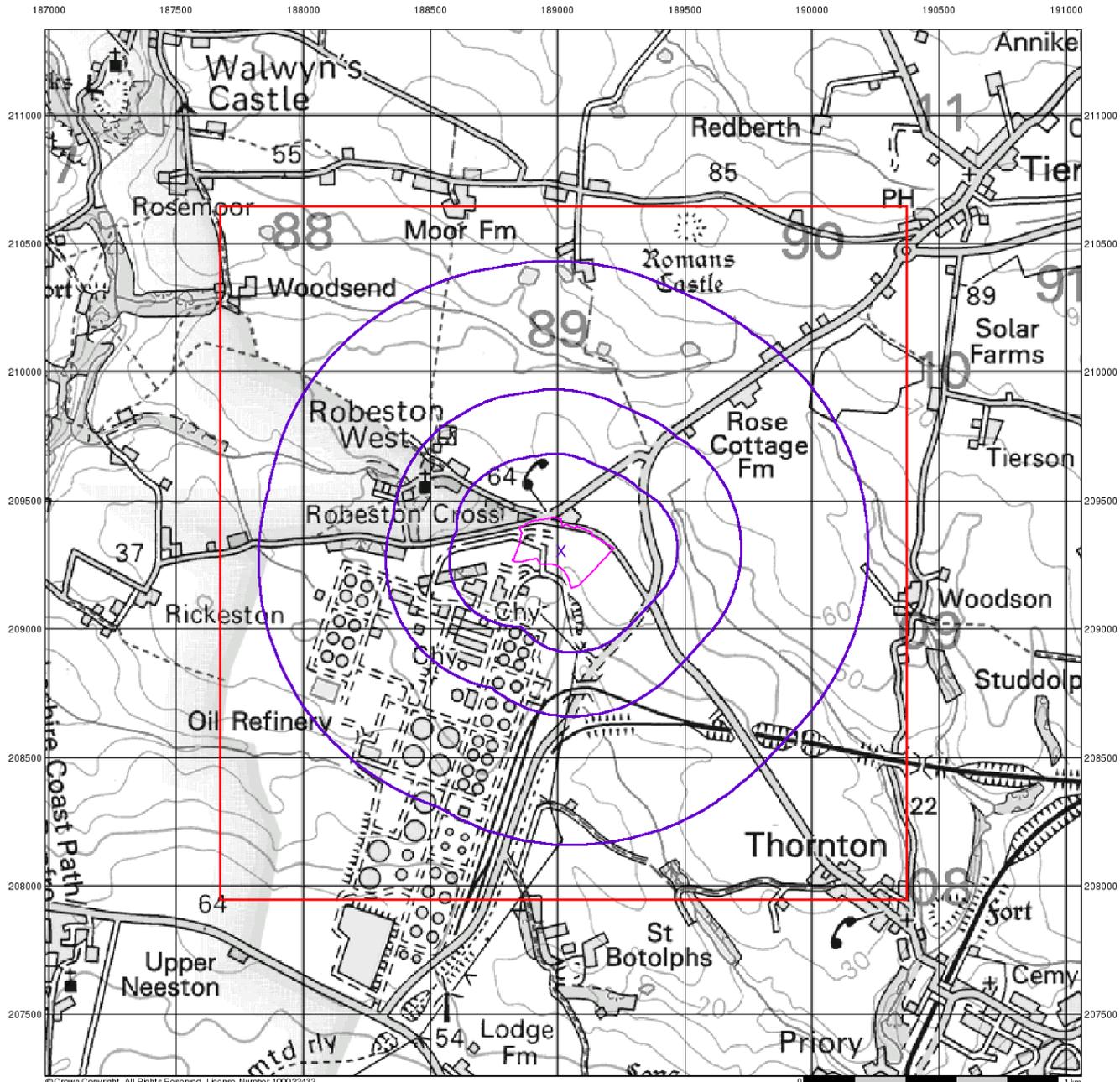


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

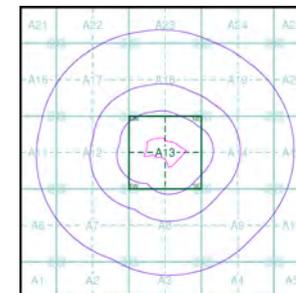
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



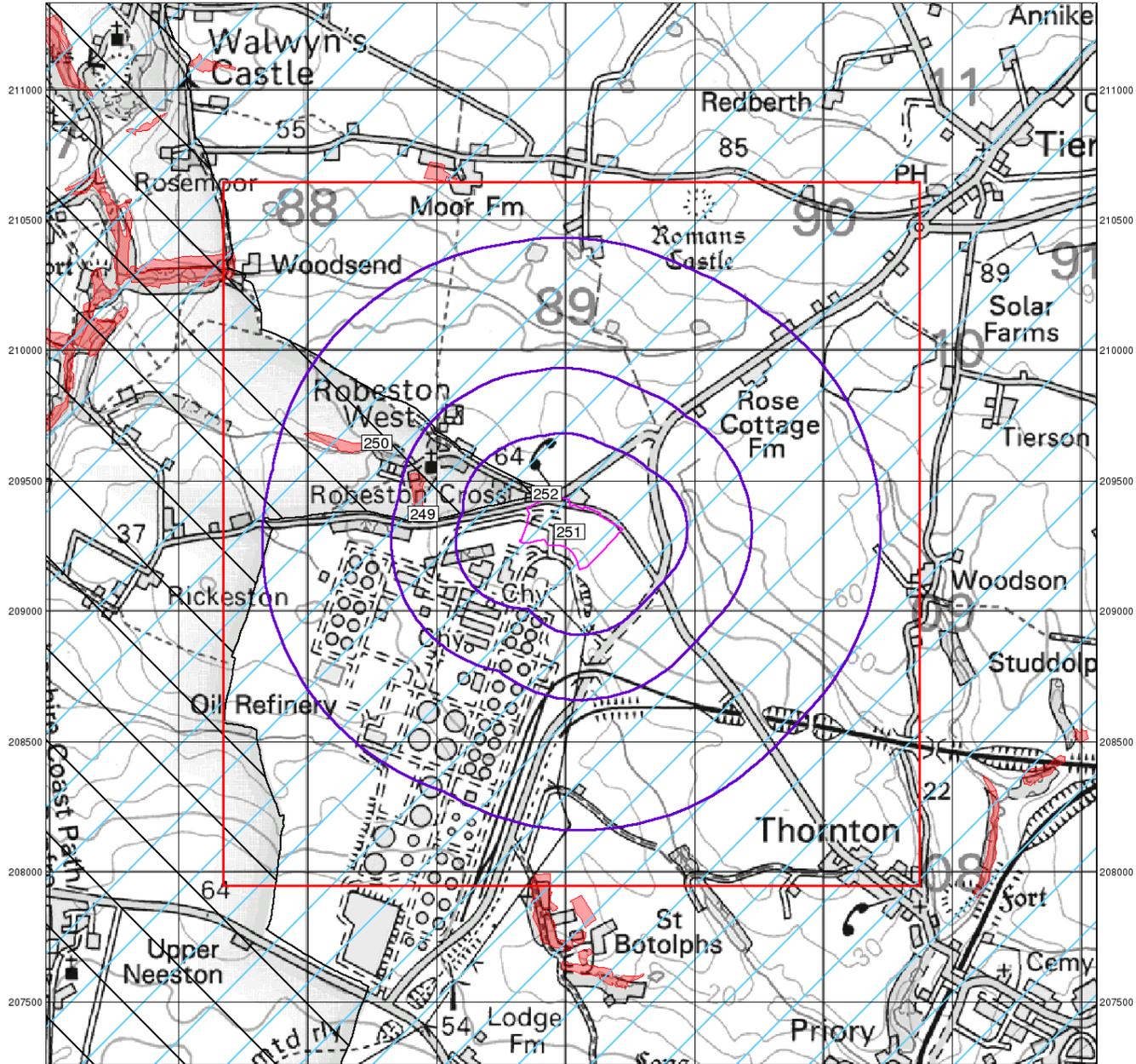
Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

187000 187500 188000 188500 189000 189500 190000 190500 191000

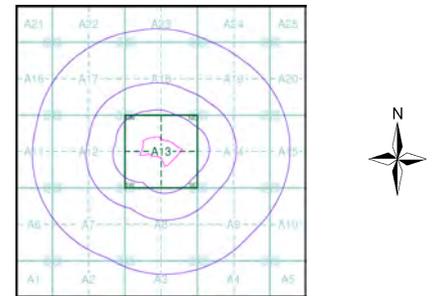


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Sensitive Land Uses

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Sensitive Land Uses**
- Ancient Woodland
 - Area of Adopted Green Belt
 - Area of Unadopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve
 - National Park
 - Nitrate Sensitive Area
 - Nitrate Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - World Heritage Sites

Site Sensitivity Context Map - Slice A

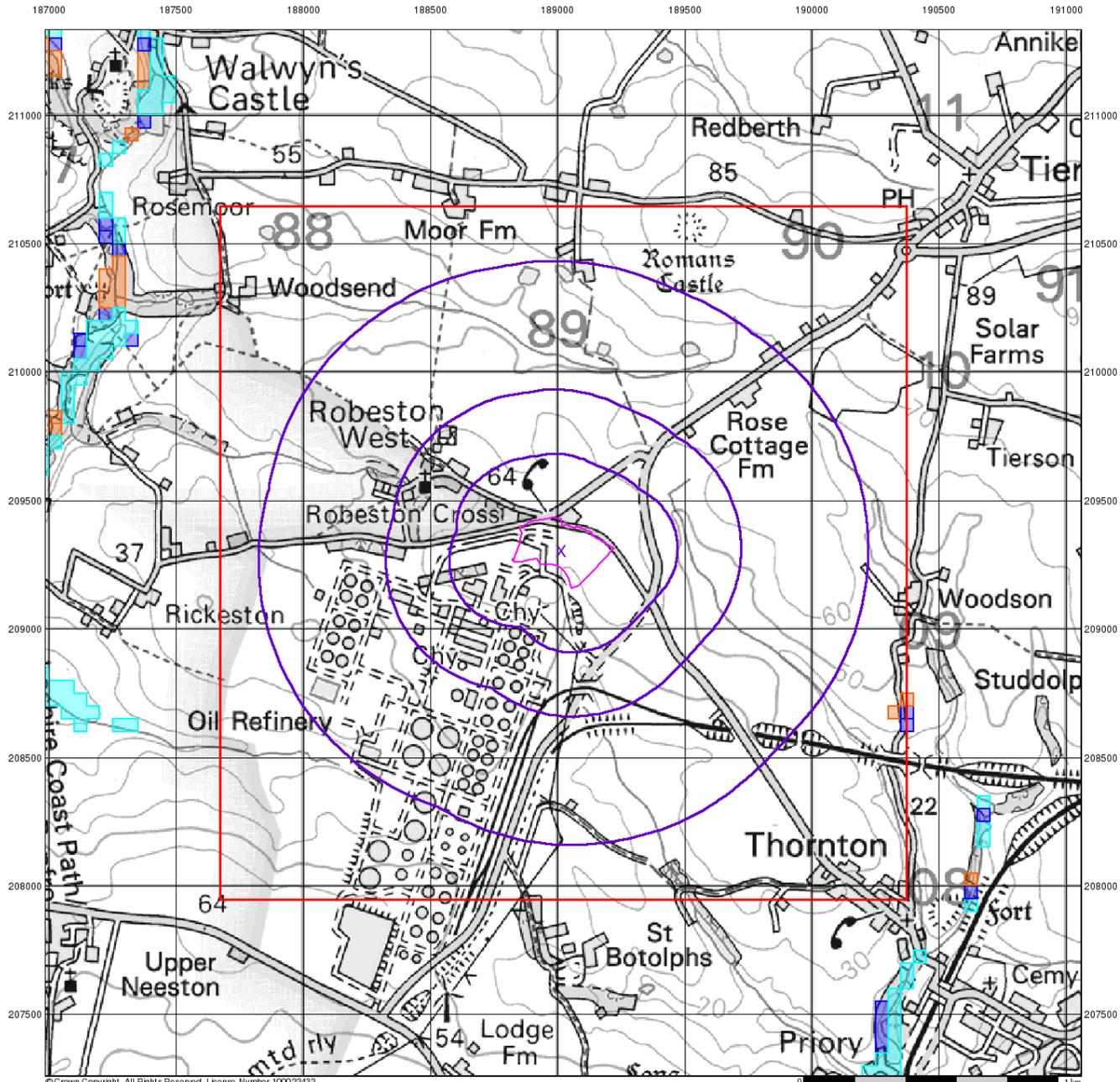


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeson West, MILFORD HAVEN, SA73 3FB



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BGS Flood GFS Data

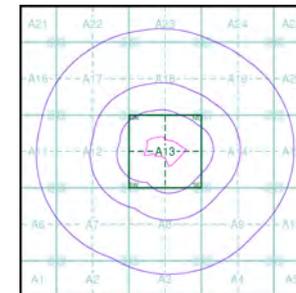
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

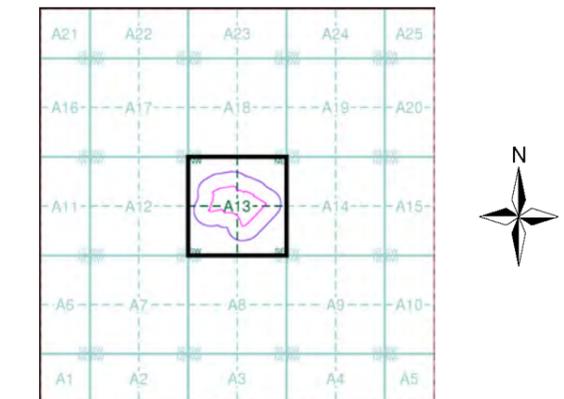
Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

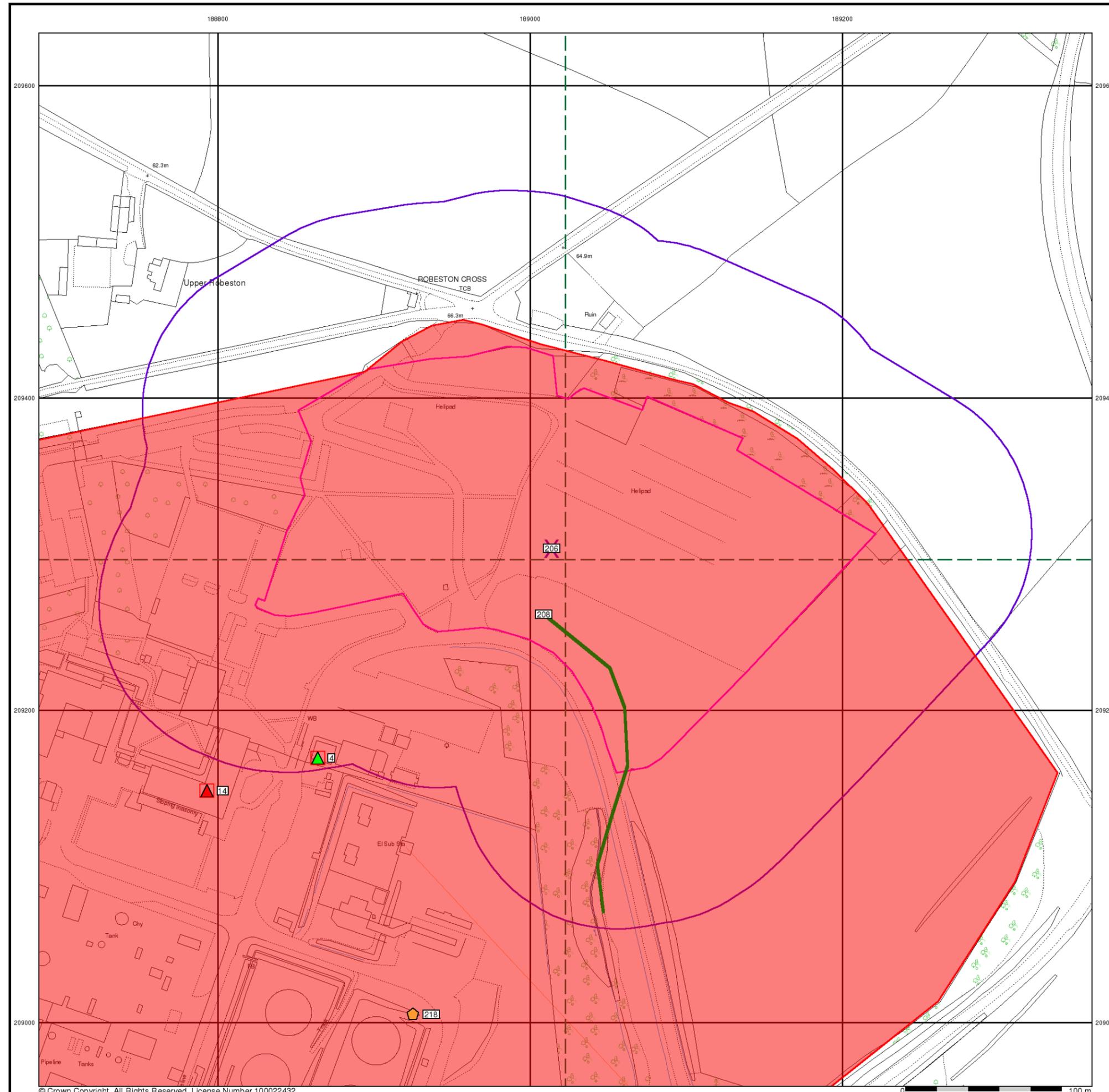


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Plot Buffer (m): 100

Site Details

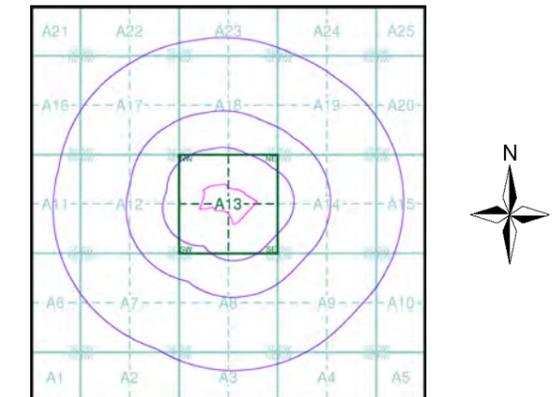
Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A

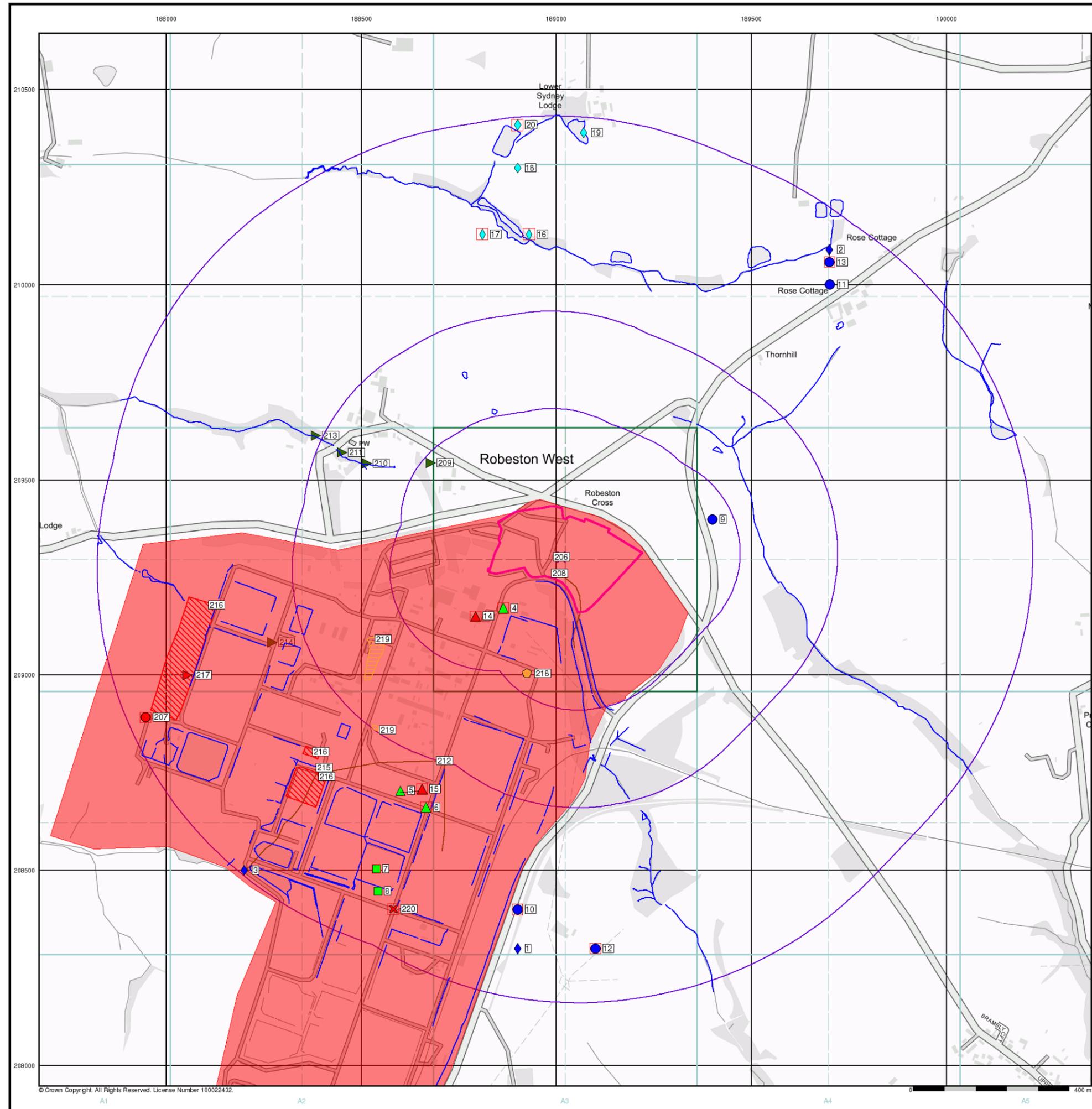


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

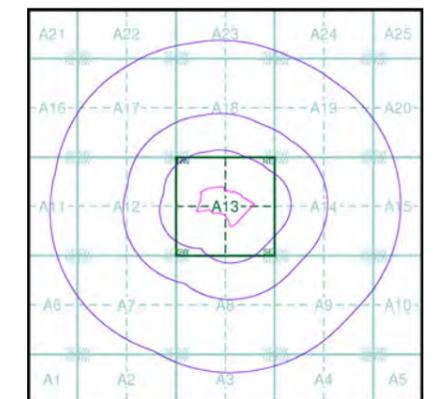
General

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

Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry
-  Gas Pipeline
-  Points of Interest - Commercial Services
-  Points of Interest - Education and Health
-  Points of Interest - Manufacturing and Production
-  Points of Interest - Public Infrastructure
-  Points of Interest - Recreational and Environmental
-  Underground Electrical Cables

Industrial Land Use Map - Slice A

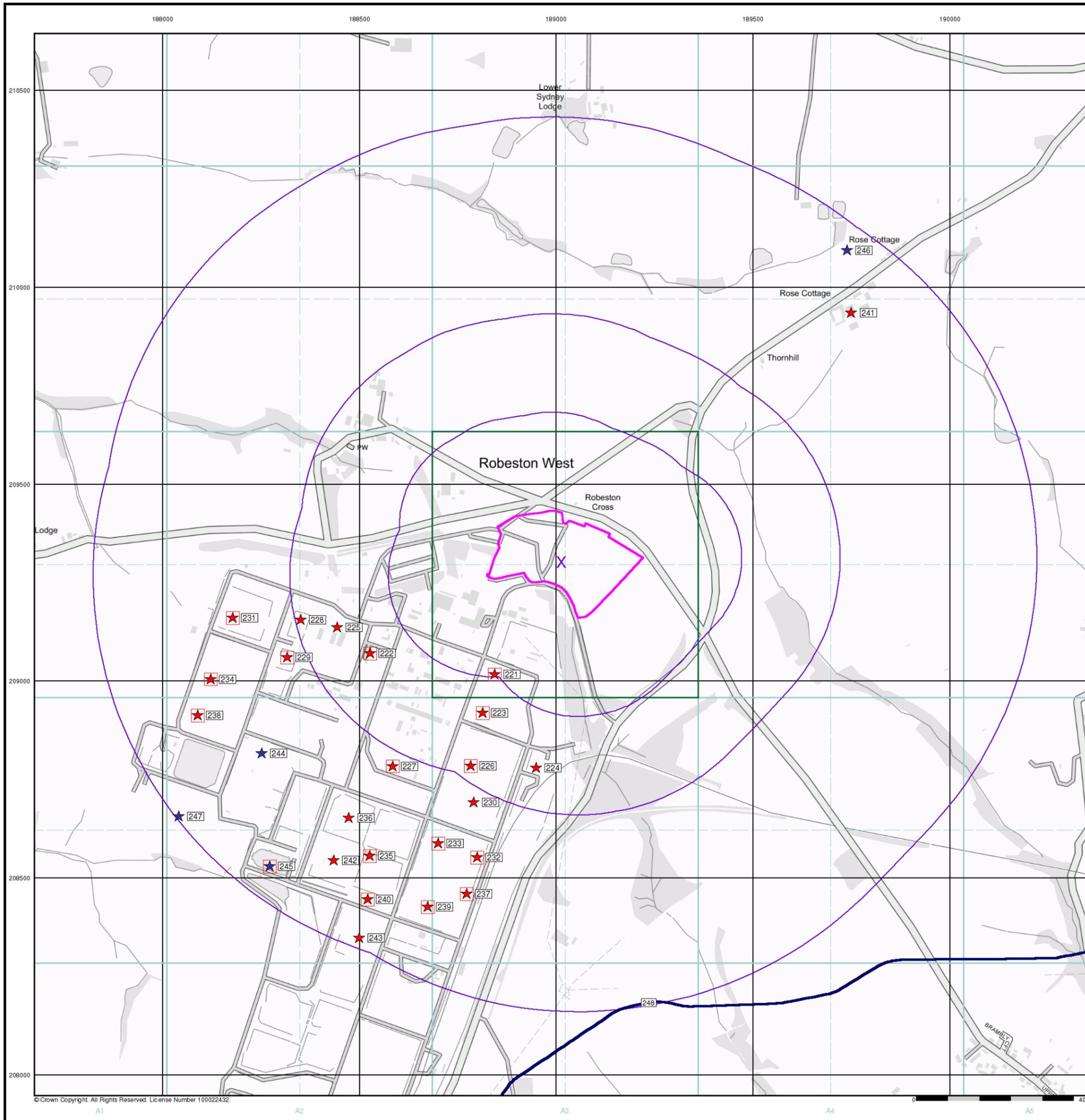


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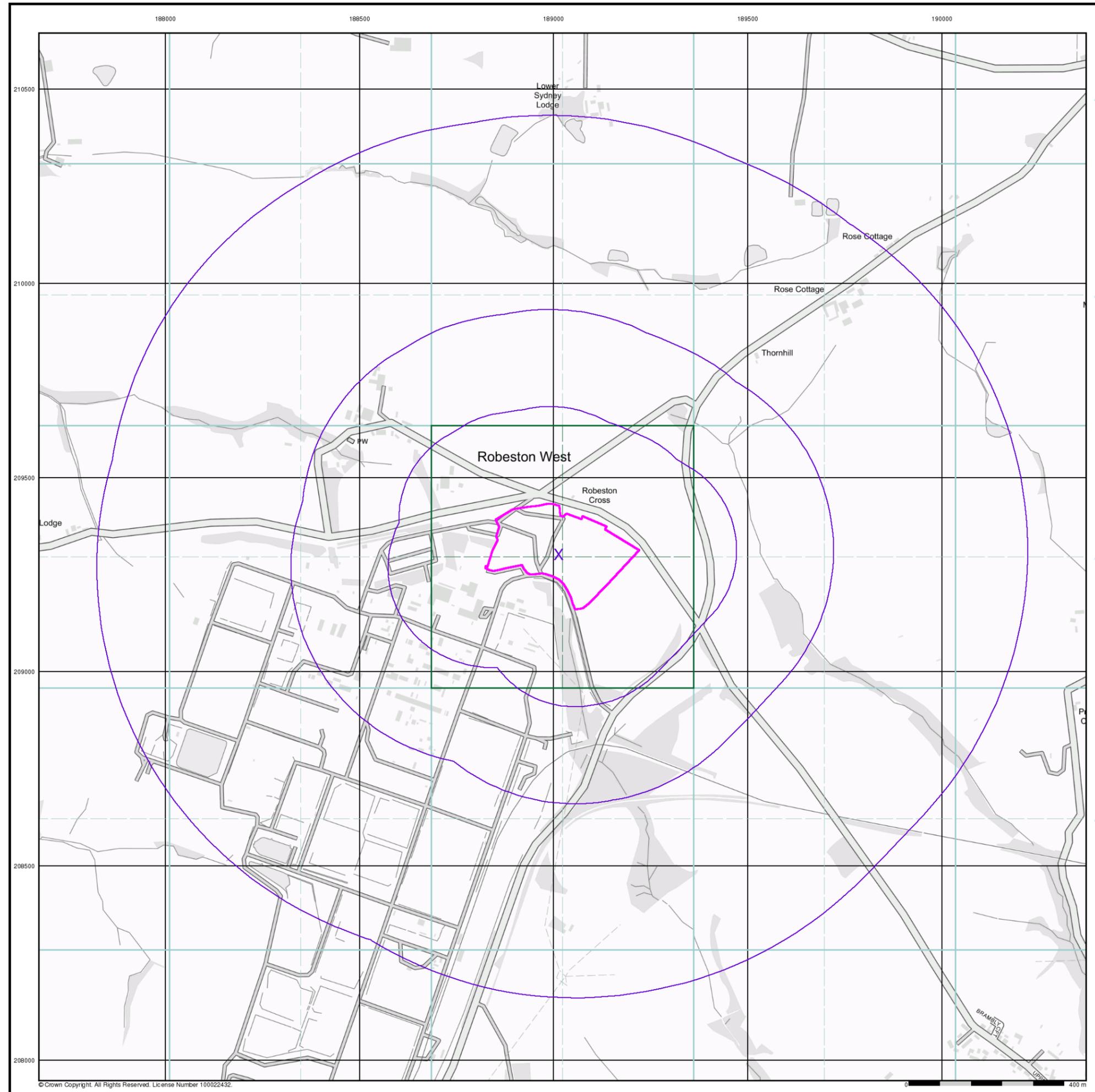
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 Customer Ref: 47244
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 Site Area (Ha): 5.8
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



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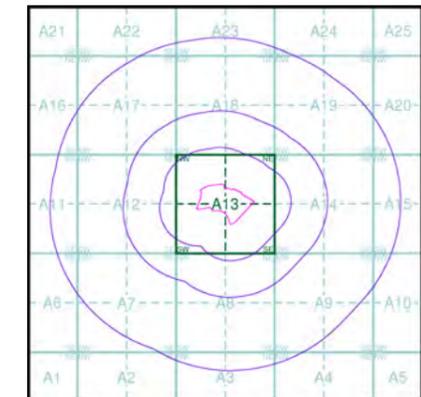
General

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

Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

Flood Map - Slice A

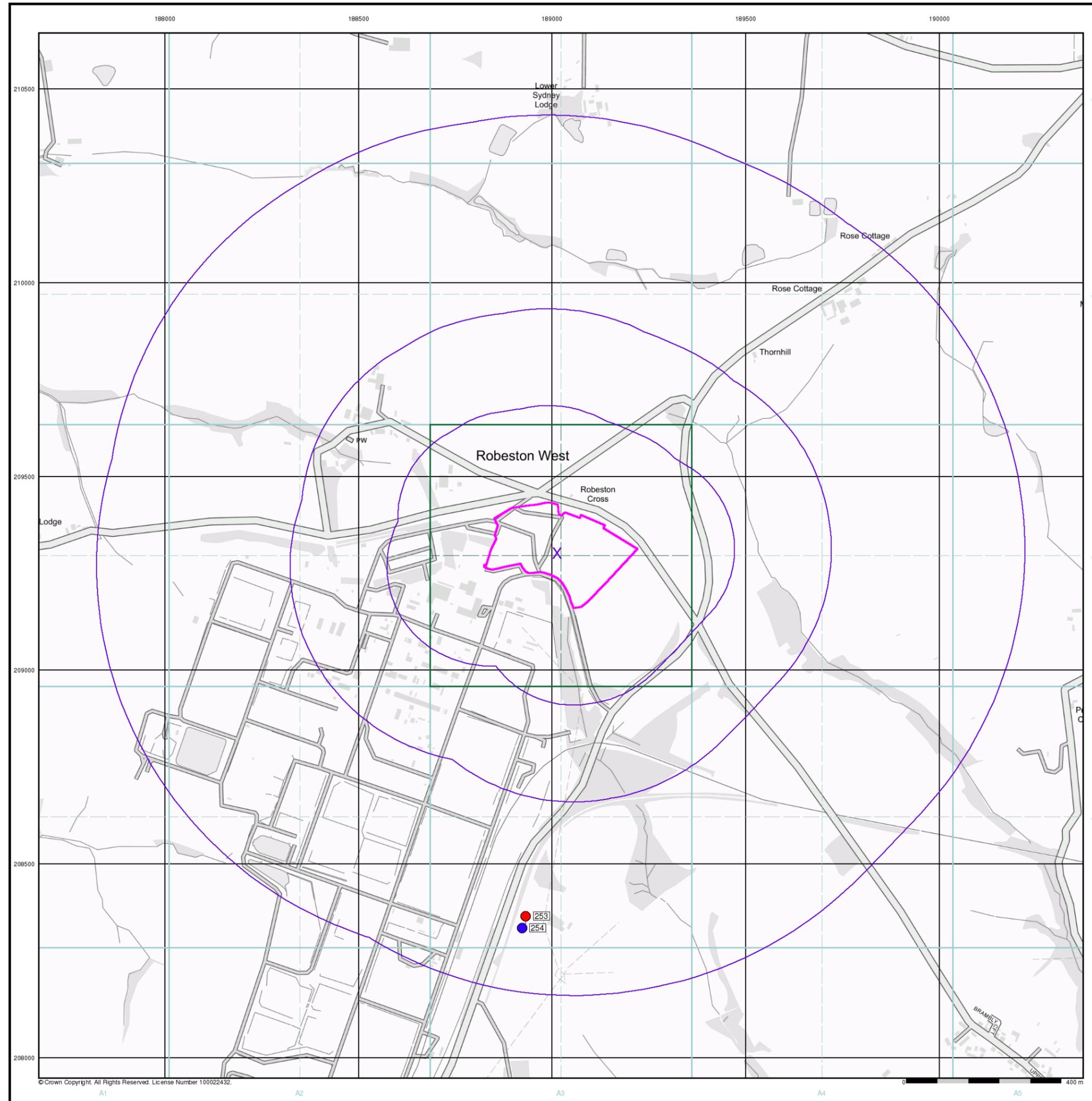


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Roboston West, MILFORD HAVEN, SA73 3FB



General

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

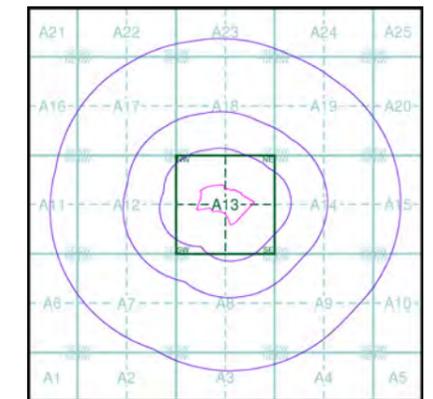
Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

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

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

Borehole Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

General

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

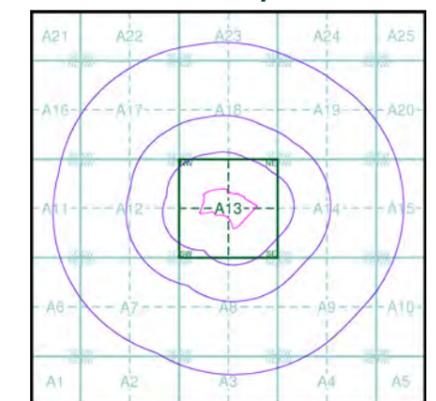
OS Water Network Data

- | | |
|--|---|
|  Canal |  Drain |
|  Reservoir |  Other |
|  Foreshore |  Lake |
|  Marsh |  Transfer |
|  Tidal River |  Lock Or Flight Of Locks |
|  Inland River |  Sea |

Contours (height in meters)

- Standard Contour  105  Mean Low Water
- Master Contour  100  Mean High Water
- Spot Height  167.3

OS Water Network Map - Slice A

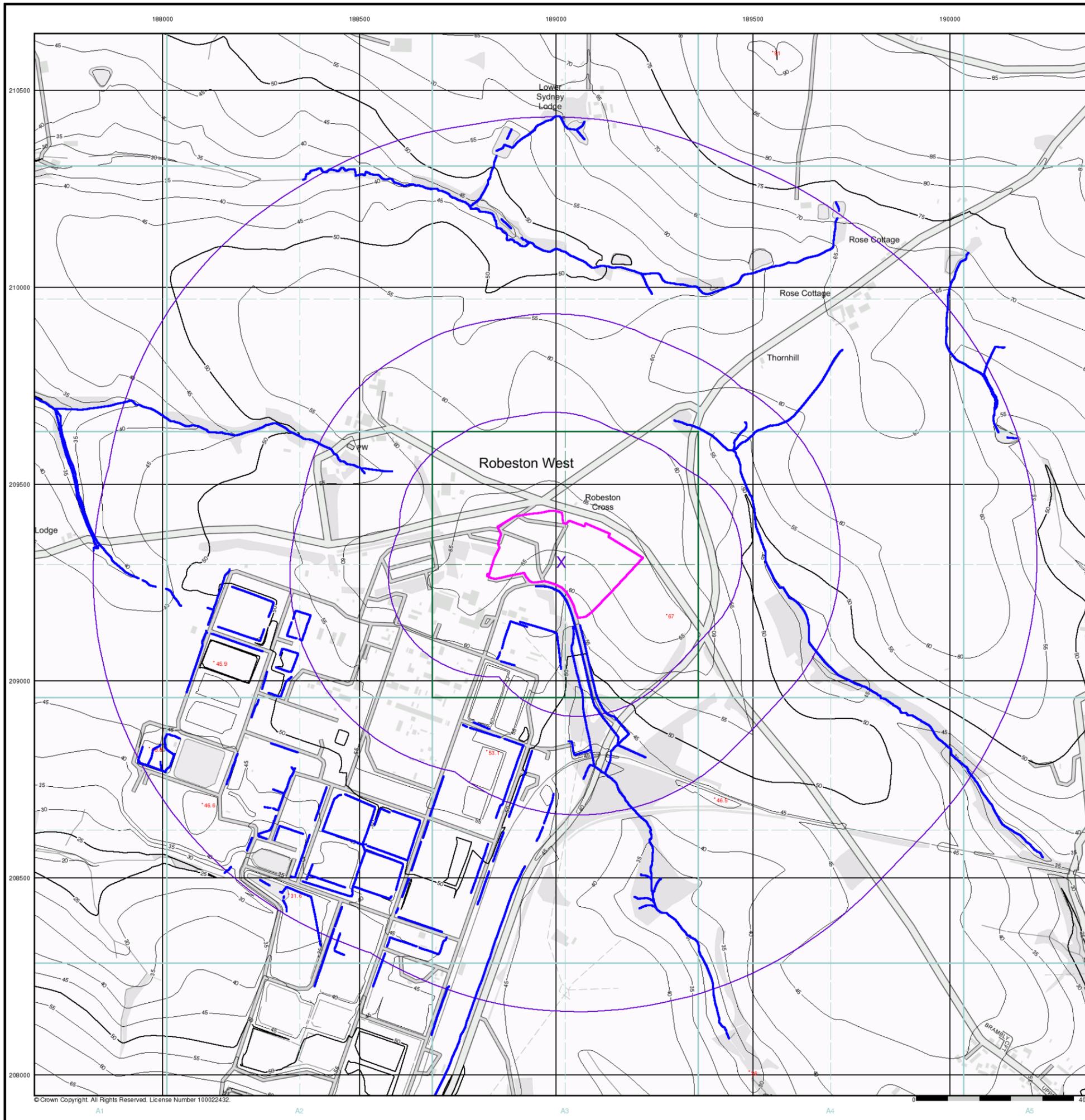


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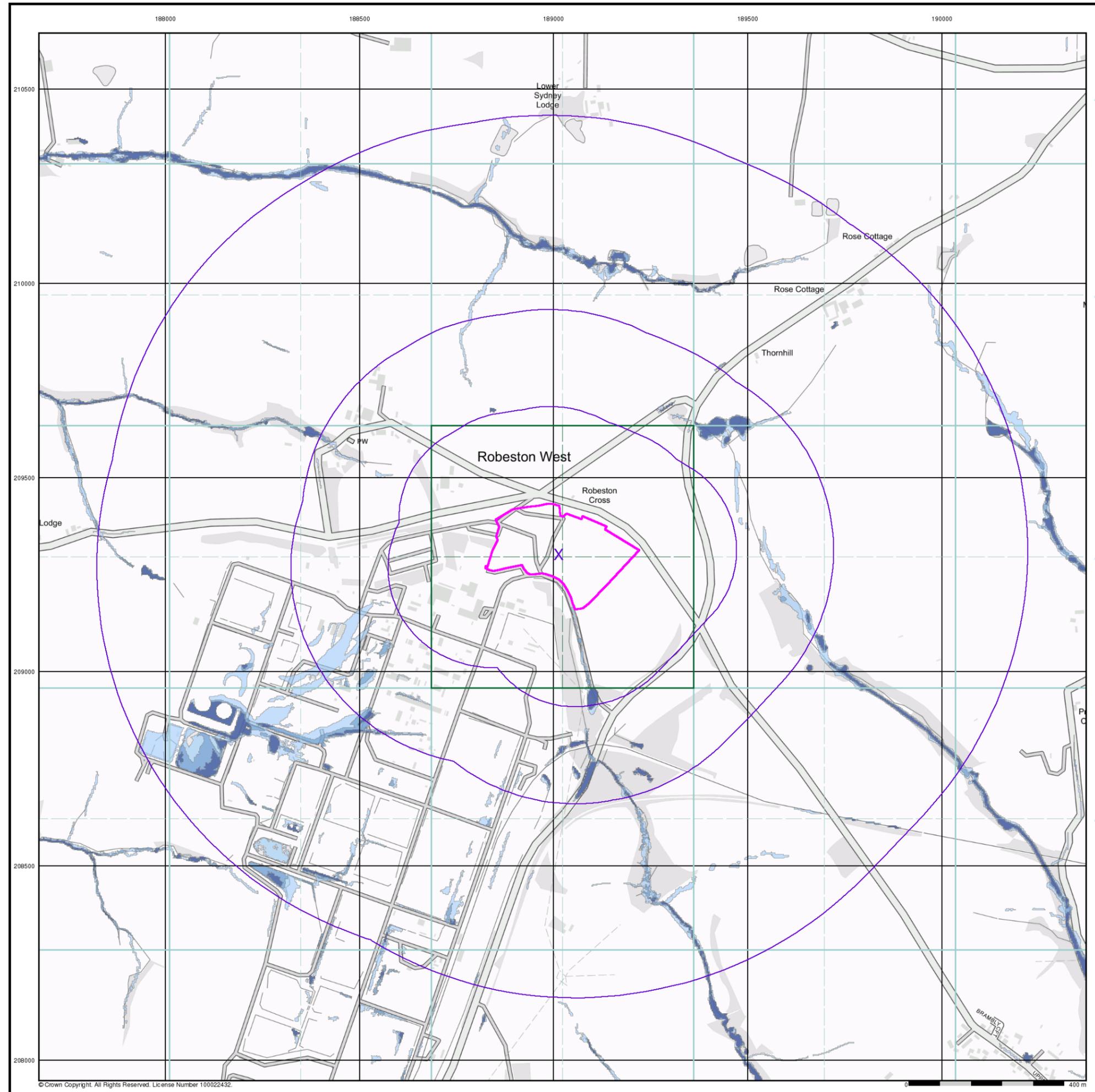
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 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



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General

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

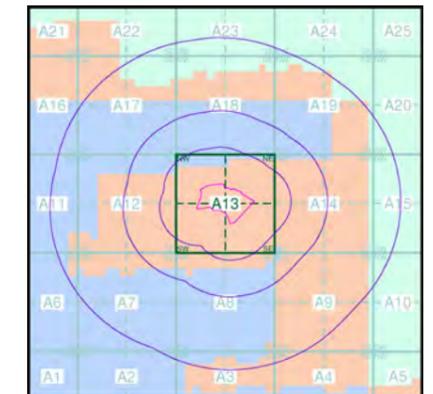
Risk of Flooding from Surface Water

-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

- See the suitability map below
-  National to county
 -  County to town
 -  Town to street
 -  Street to parcels of land
 -  Property

EANRW Suitability Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
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Site Details

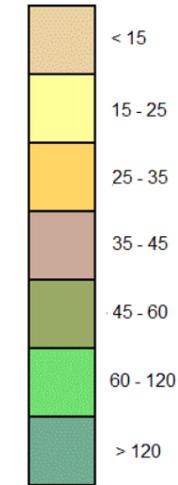
Site at, Puma Energy UK Ltd., Roboston West, MILFORD HAVEN, SA73 3FB

General

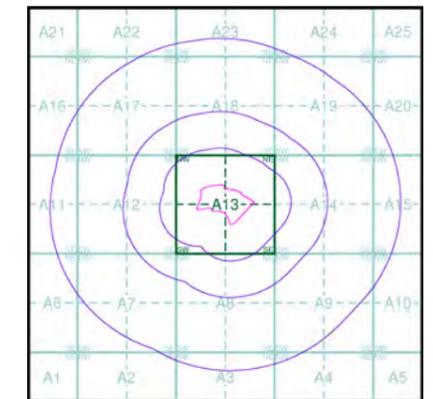
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

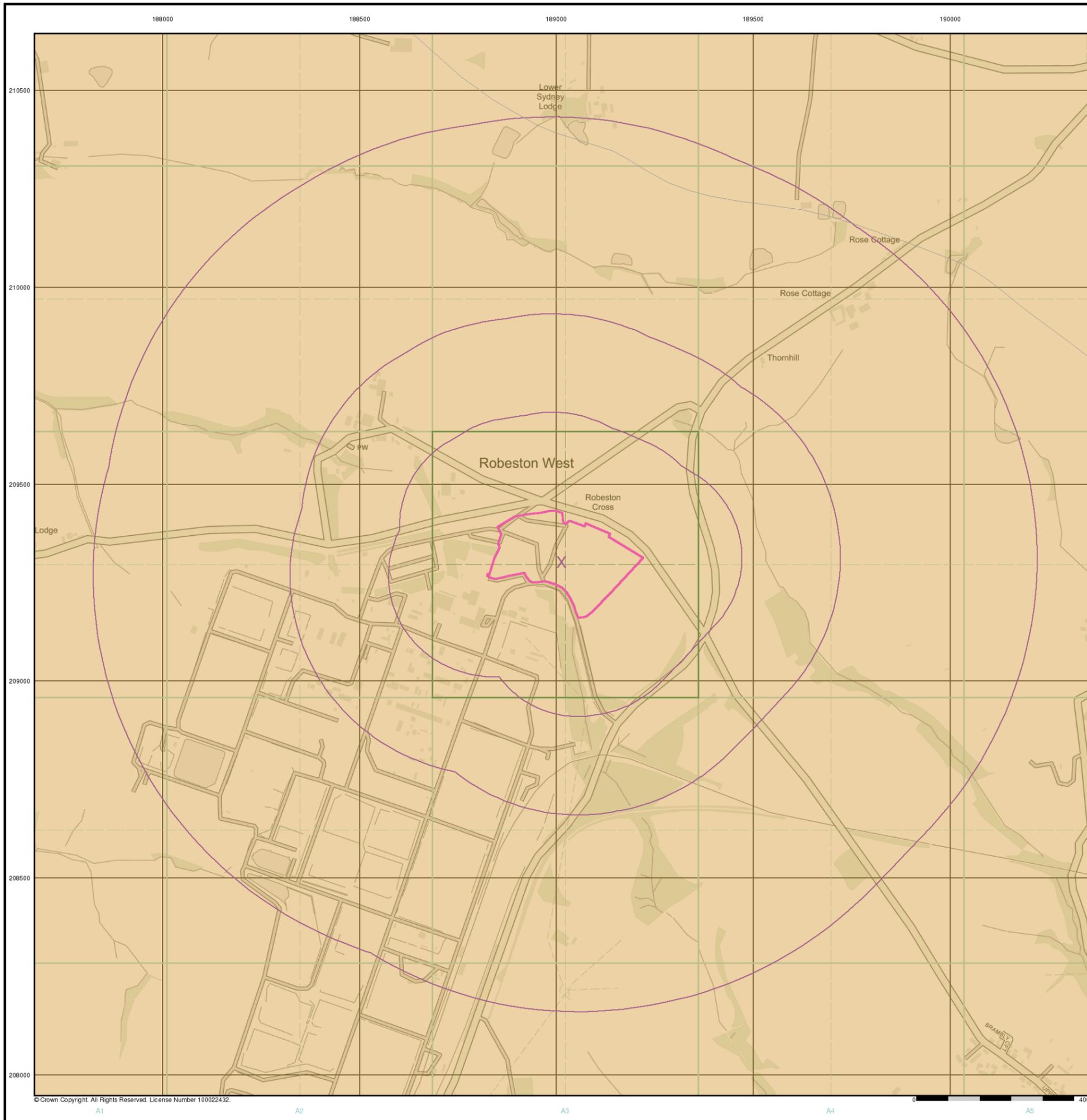


Order Details

Order Details: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

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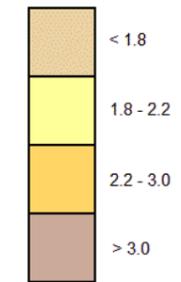


General

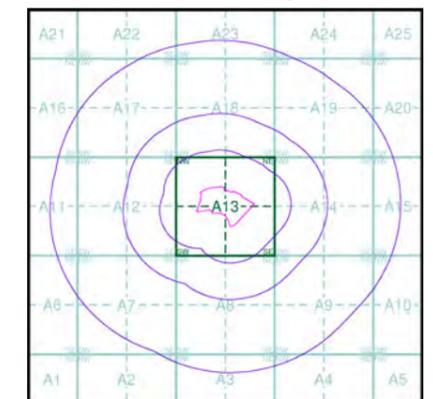
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

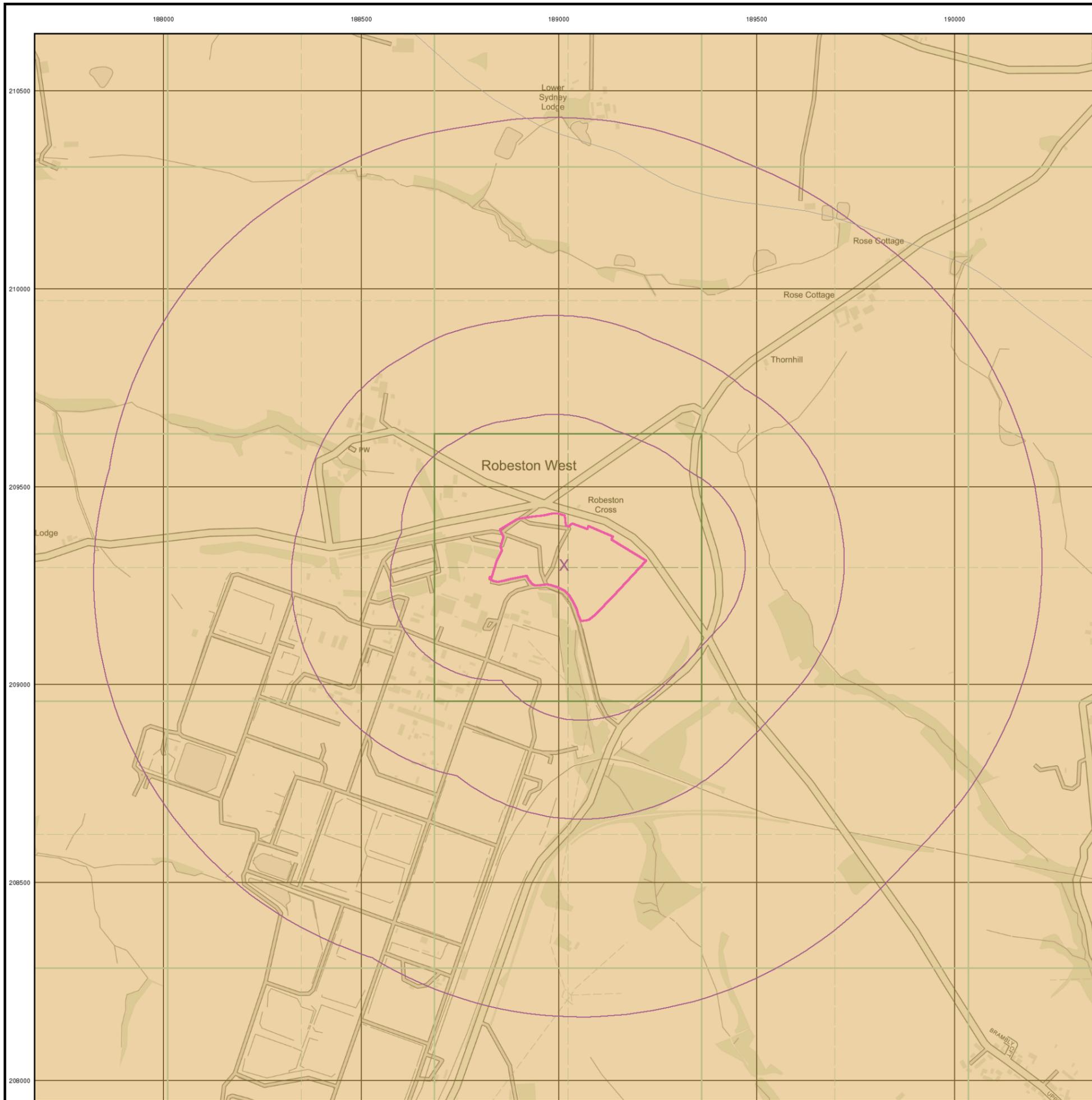


Order Details

Order Details: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

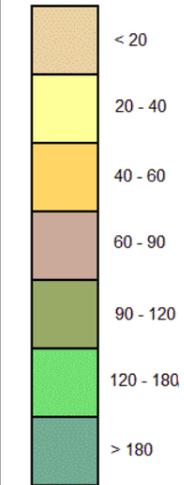


General

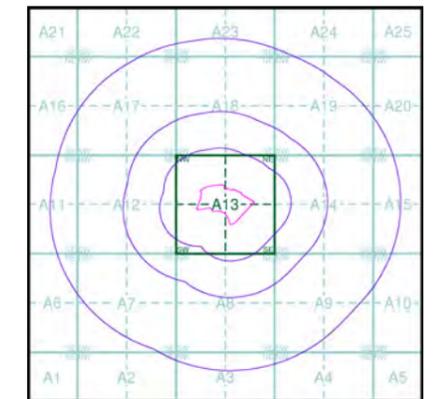
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

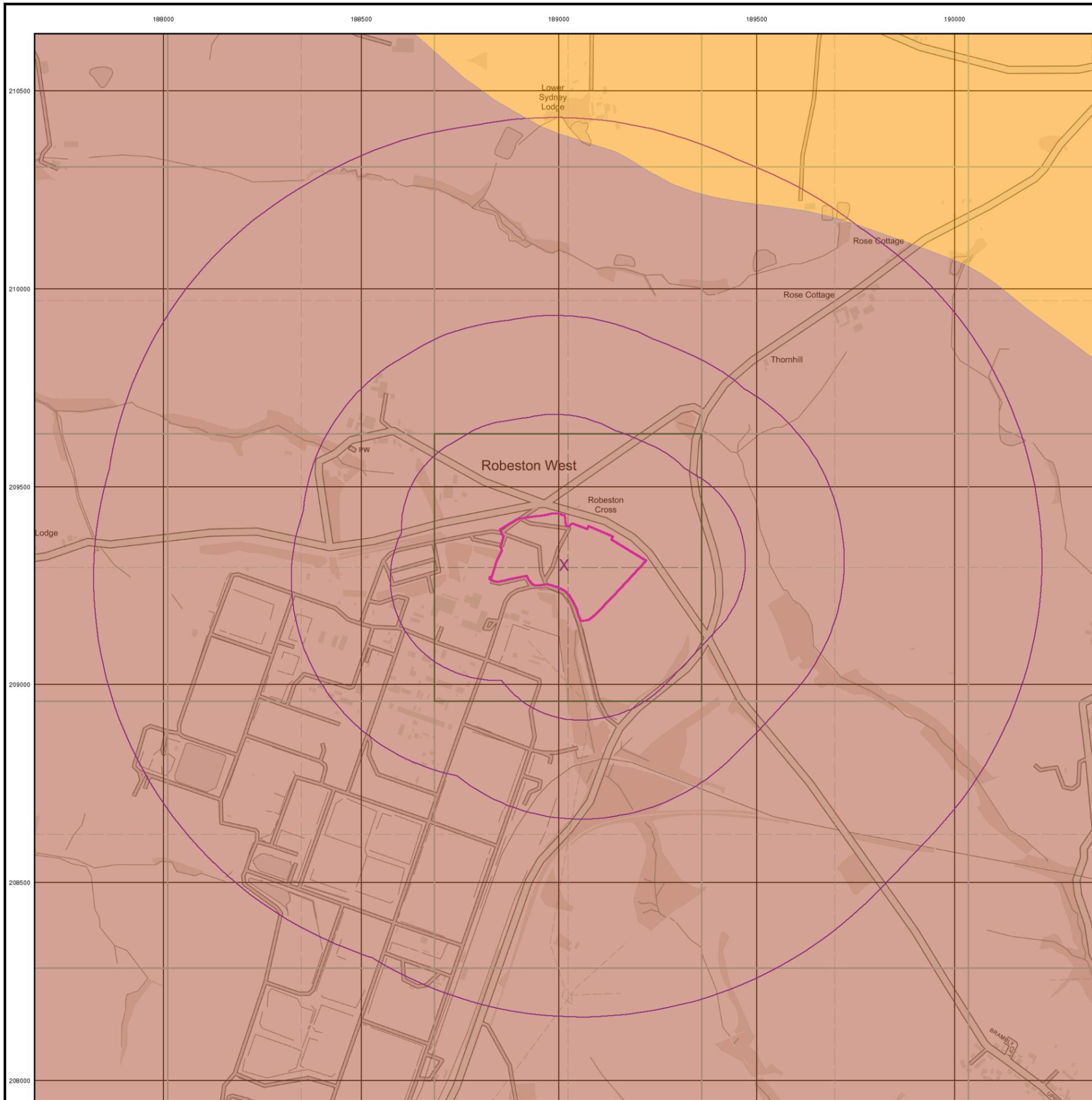


Order Details

Order Details: 224812314_1_1
 Customer Ref: 47244
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 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

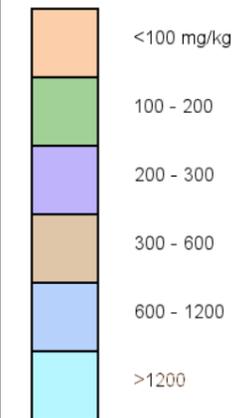


General

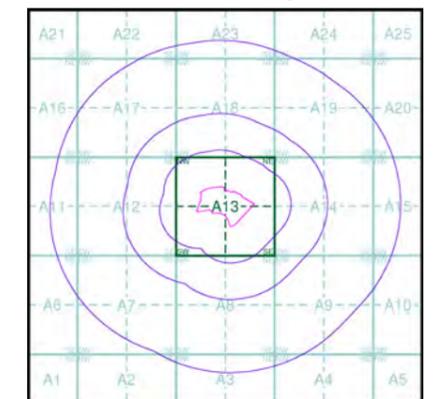
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

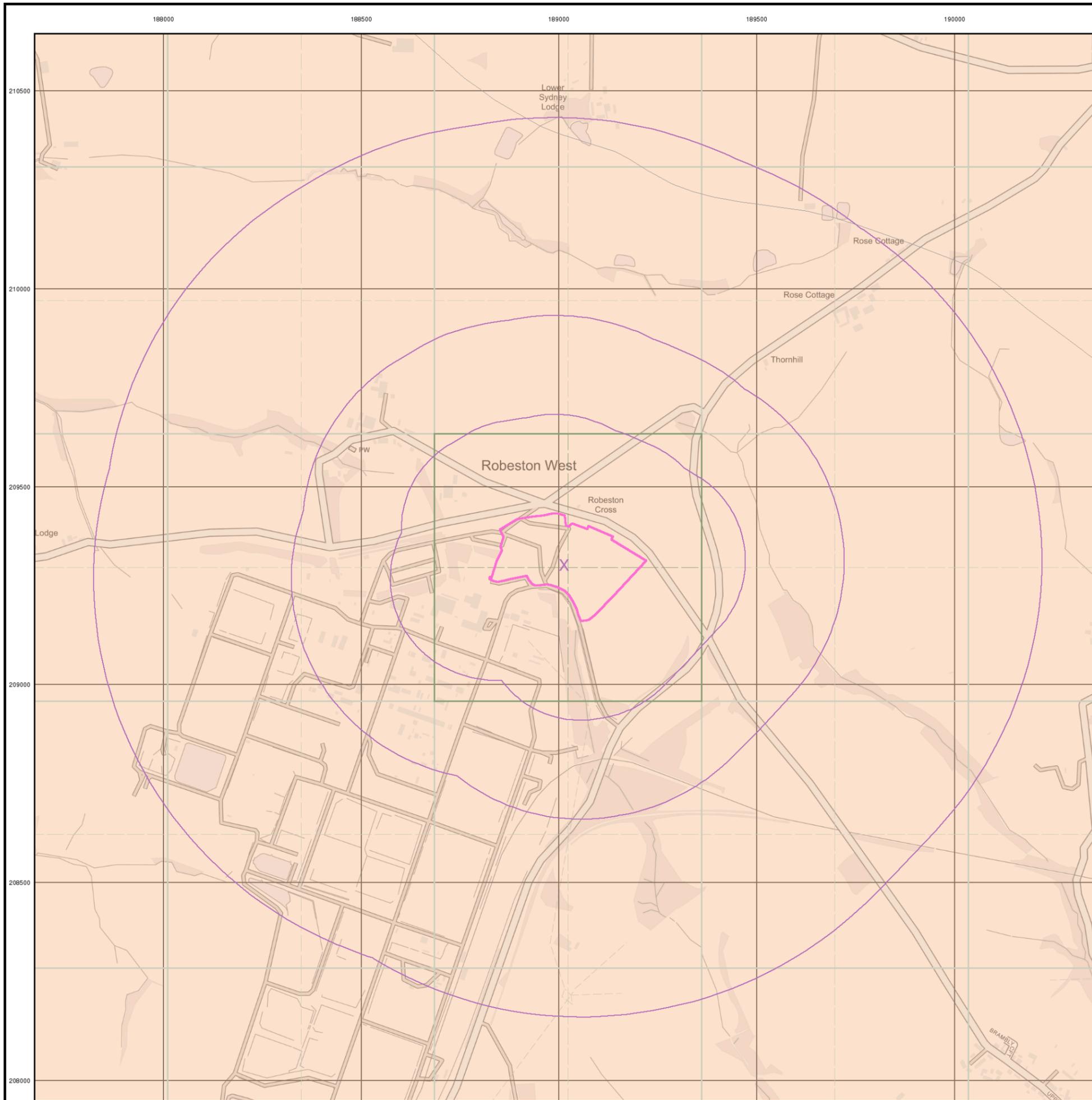


Order Details

Order Details: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

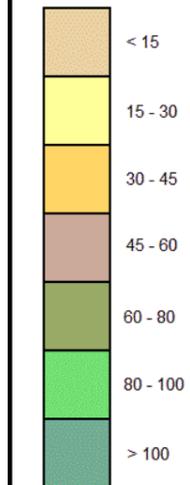


General

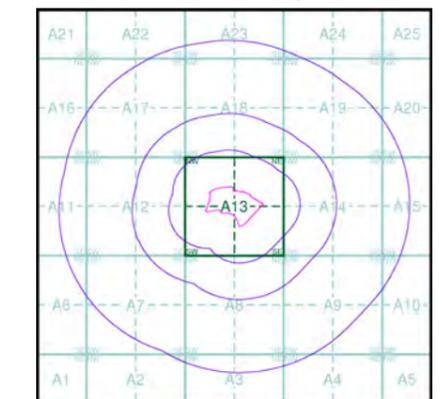
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

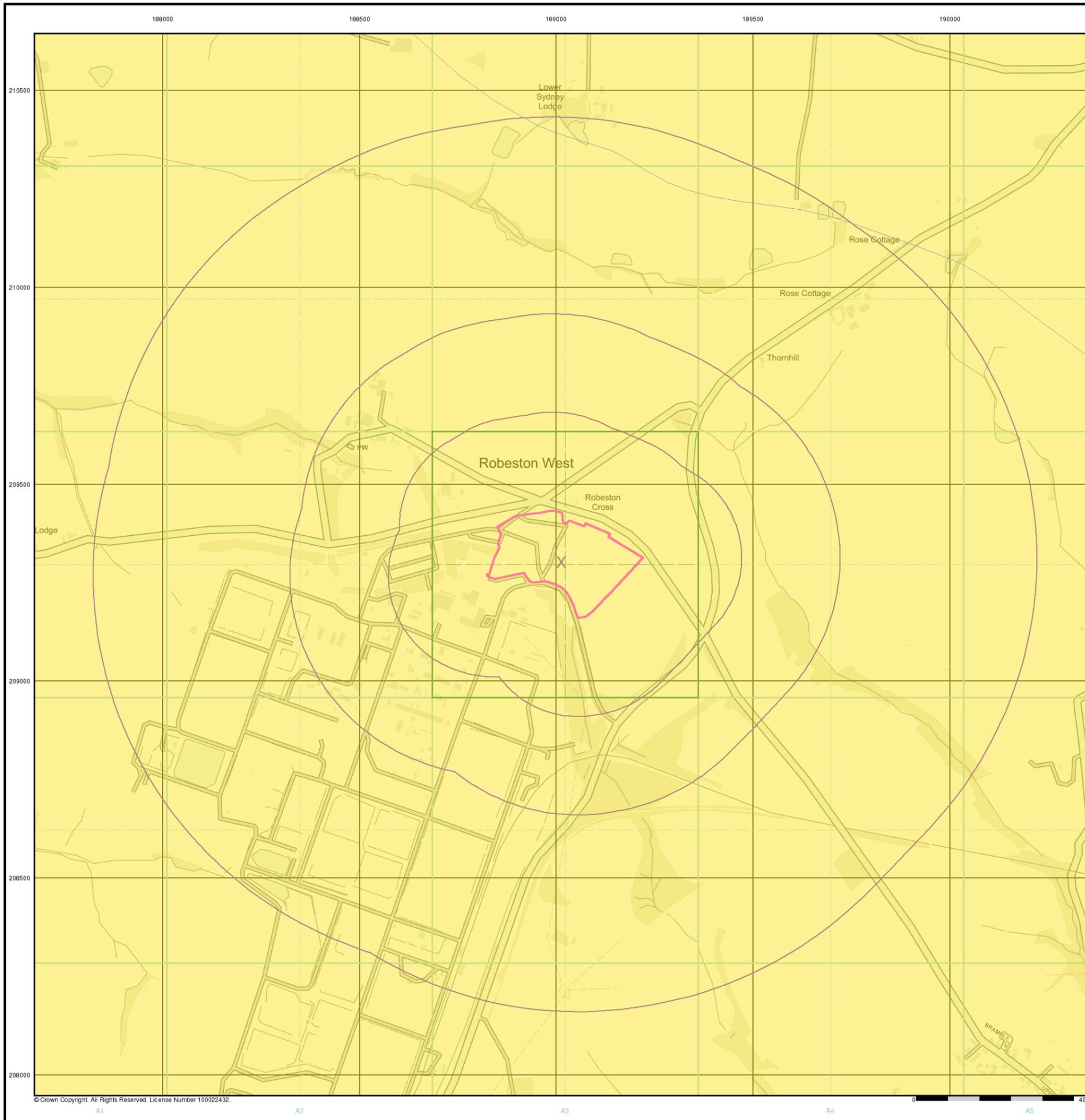


Order Details

Order Details: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **Sl** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH 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
EI P 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
H 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

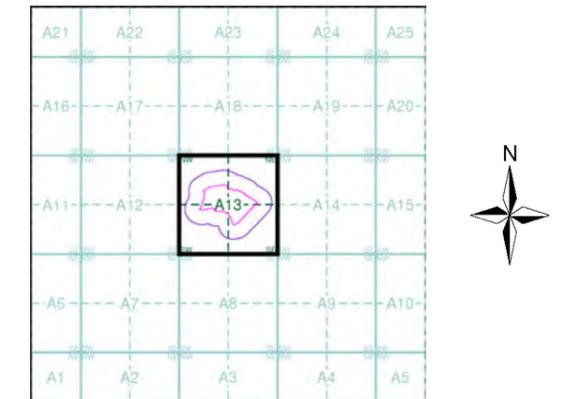
Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m **Bench Mark** **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1876	2
Pembrokeshire	1:2,500	1908	3
Ordnance Survey Plan	1:2,500	1972 - 1973	4
Ordnance Survey Plan	1:2,500	1975	5
Supply of Unpublished Survey Information	1:2,500	1976	6
Additional SIMs	1:2,500	1978	7
Additional SIMs	1:2,500	1990	8
Large-Scale National Grid Data	1:2,500	1995	9
Historical Aerial Photography	1:2,500	2003	10

Historical Map - Segment A13



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

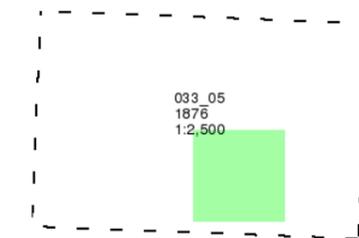
Pembrokeshire

Published 1876

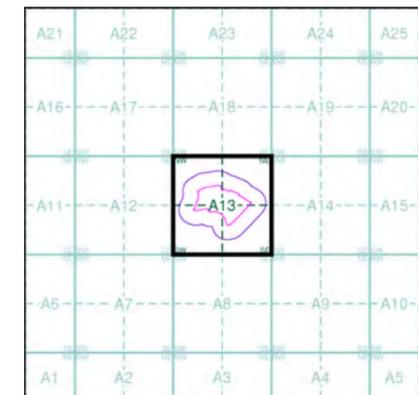
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

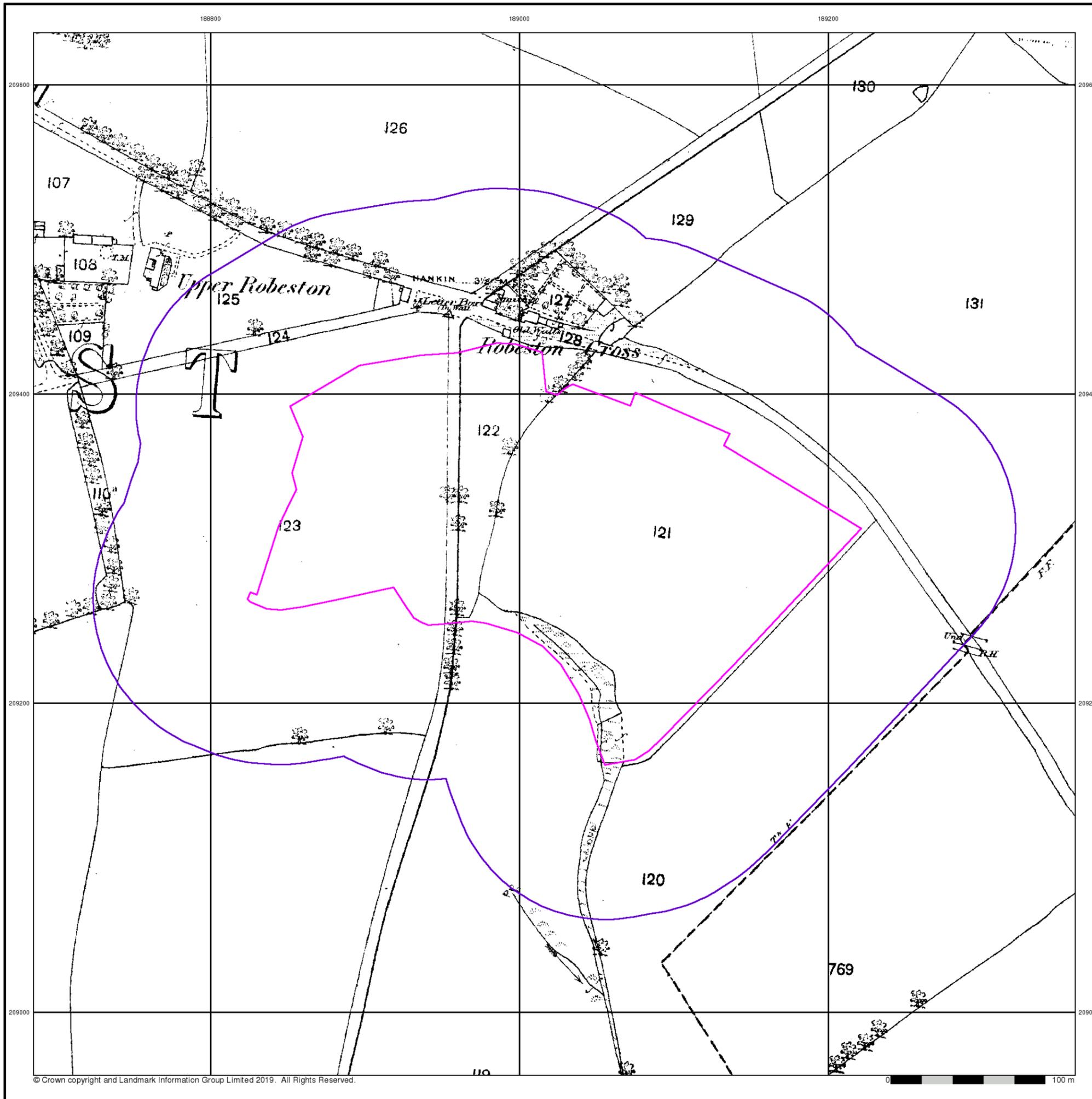


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



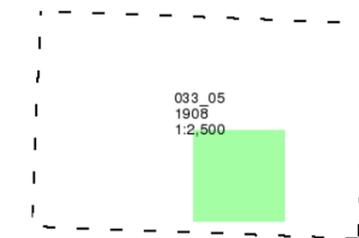
Pembrokeshire

Published 1908

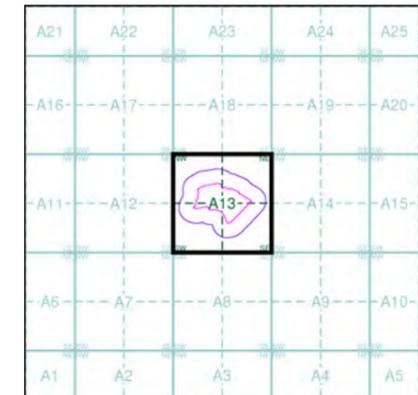
Source map scale - 1:2,500

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 A13

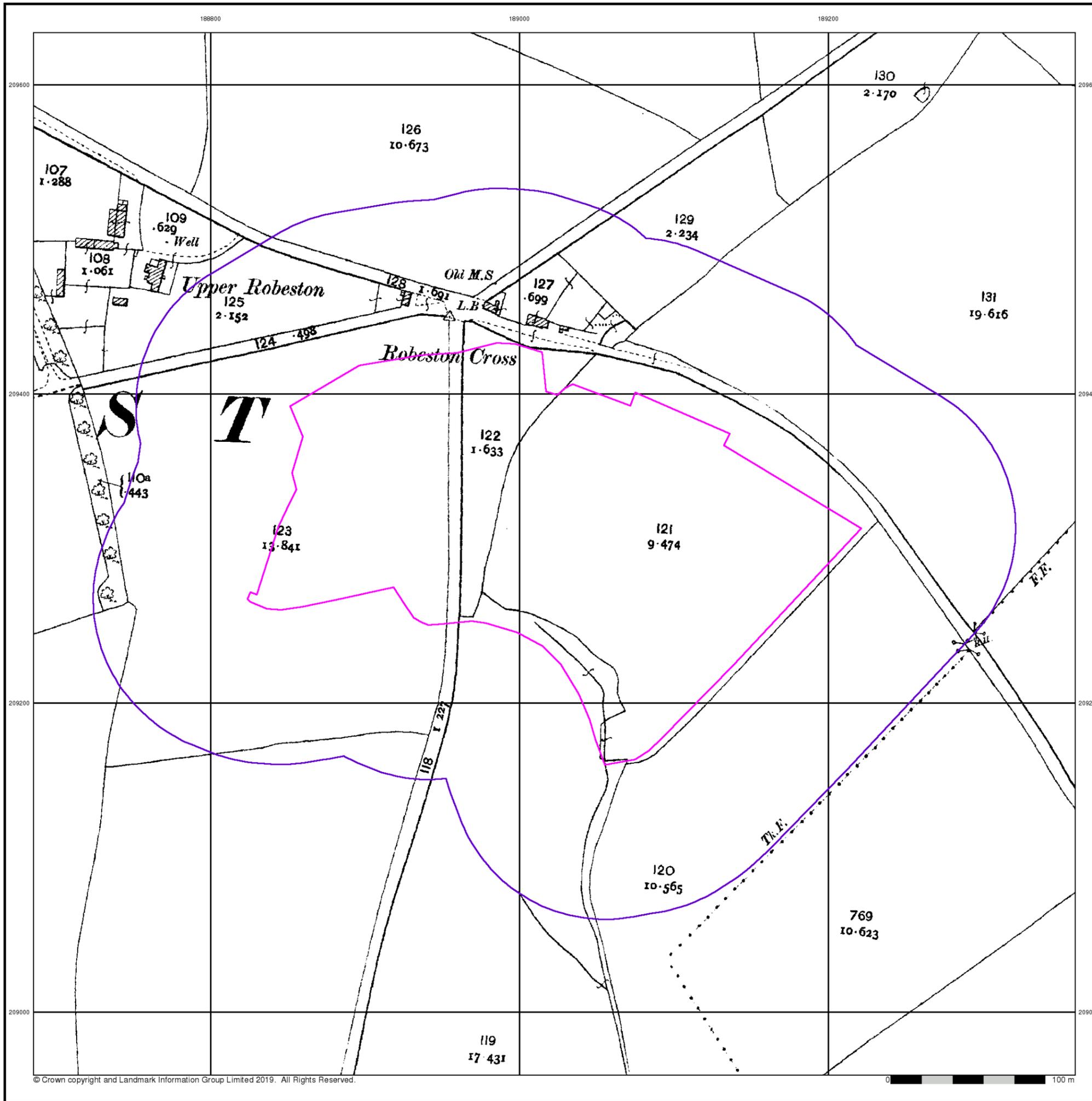


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



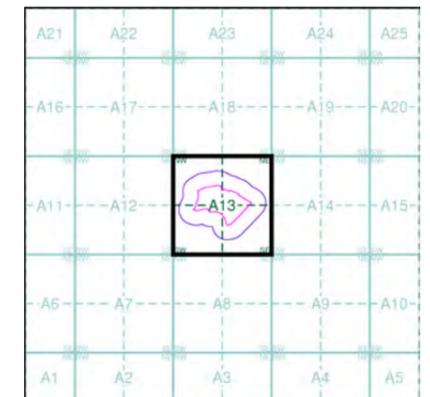
Ordnance Survey Plan
Published 1972 - 1973
Source map scale - 1:2,500

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)

SM8809 1972 12,500	SM8909 1972 12,500
SM8808 1973 12,500	SM8908 1973 12,500

Historical Map - Segment A13



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



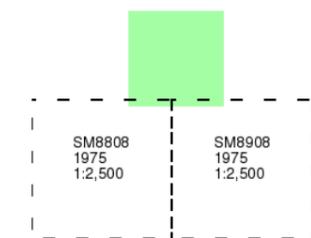
Ordnance Survey Plan

Published 1975

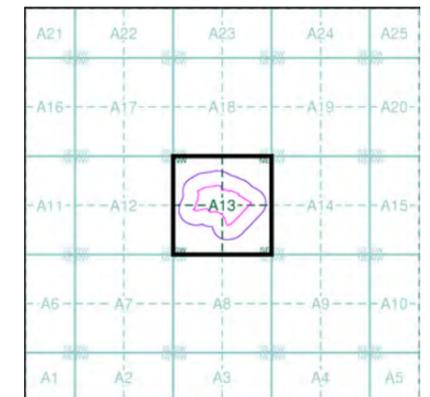
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

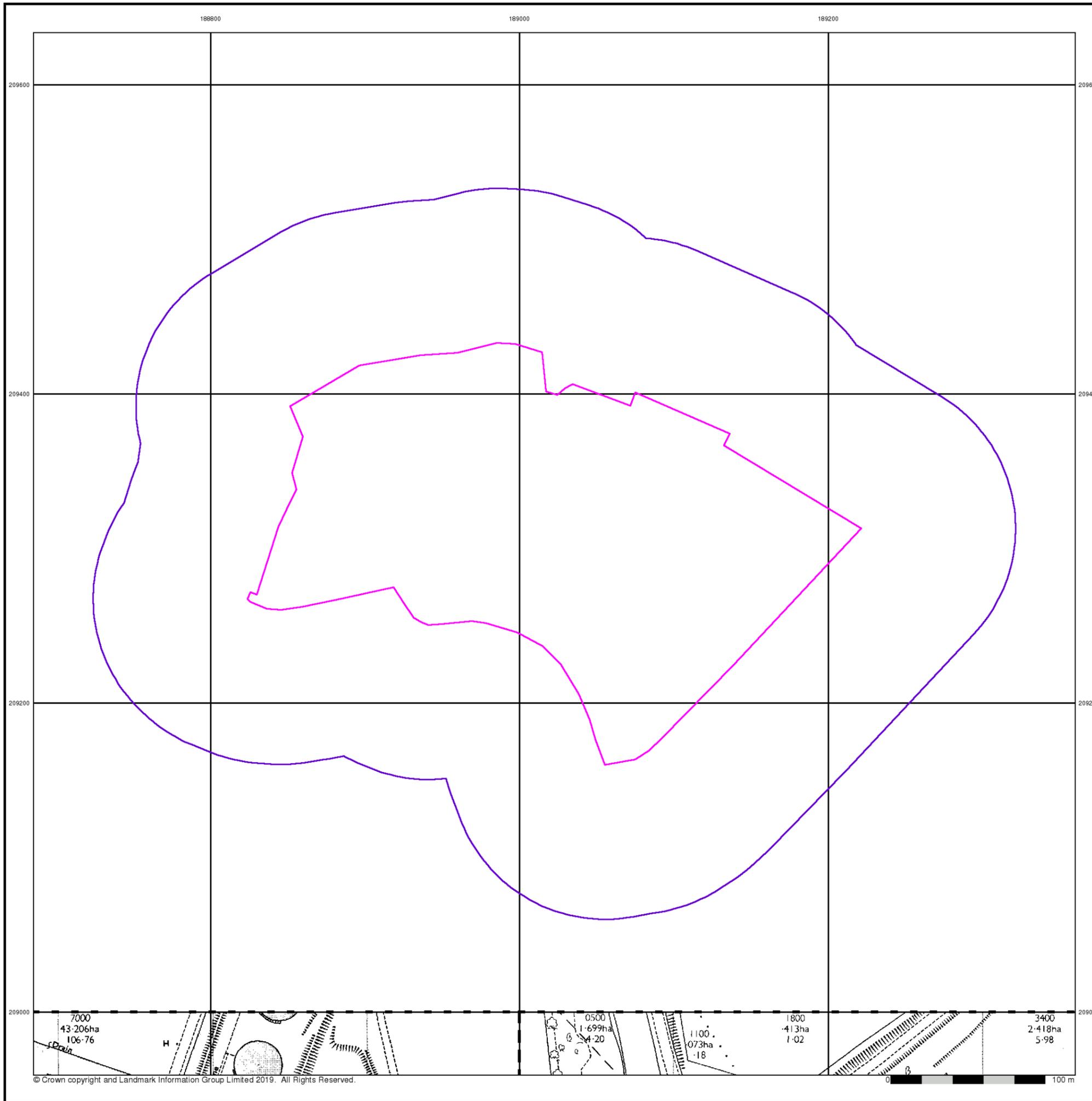


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Supply of Unpublished Survey Information

Published 1976

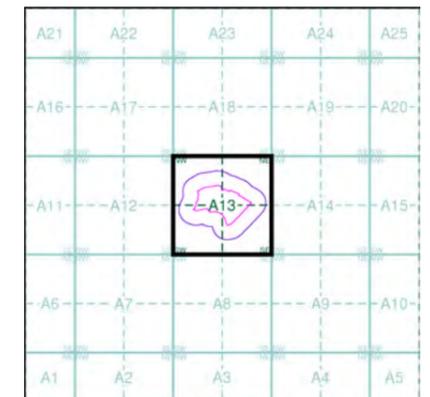
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

	SM8909	
	1976	
	1:2,500	
SM8808		SM8908
1976		1976
1:2,500		1:2,500

Historical Map - Segment A13

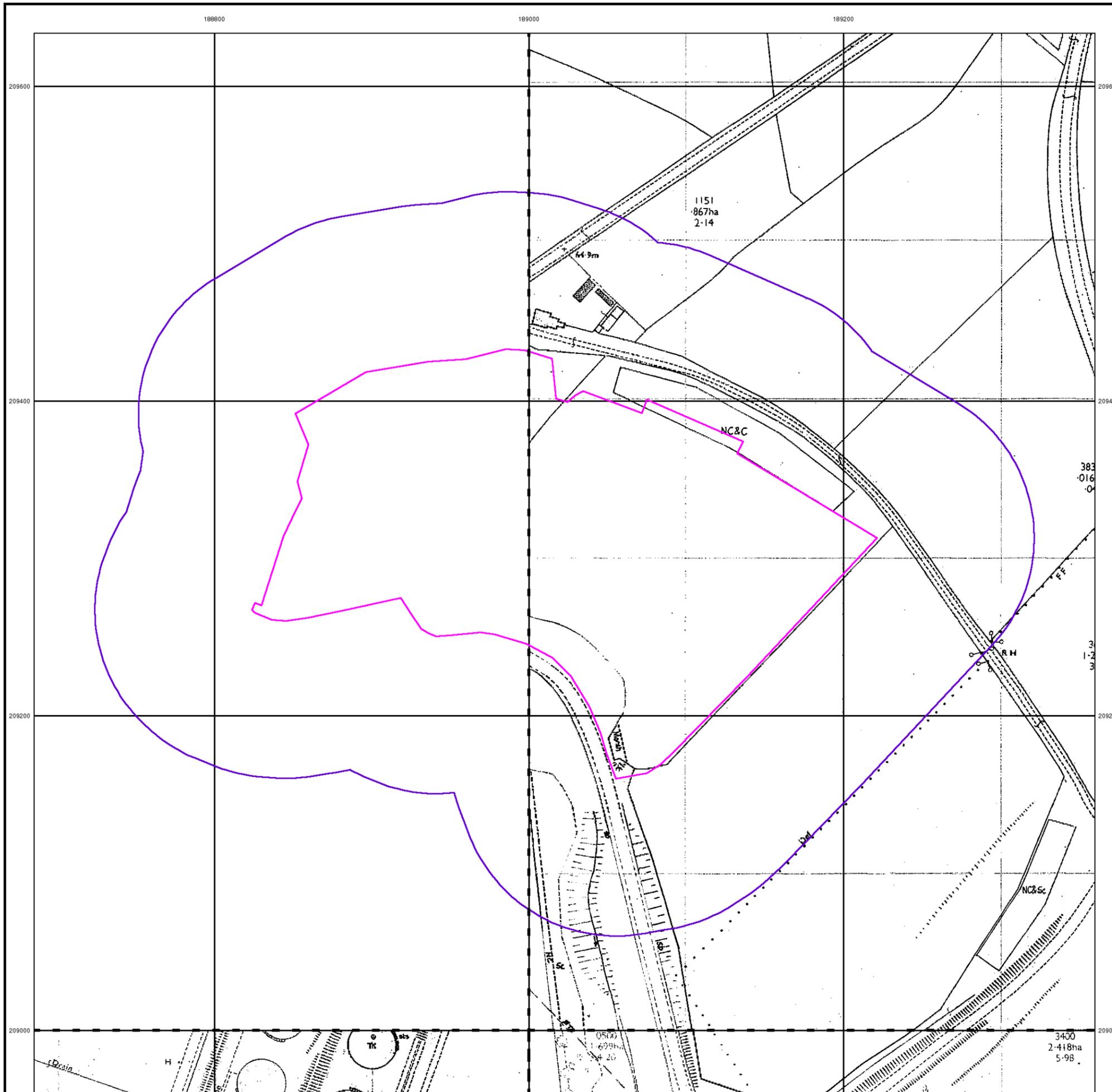


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Additional SIMs

Published 1978

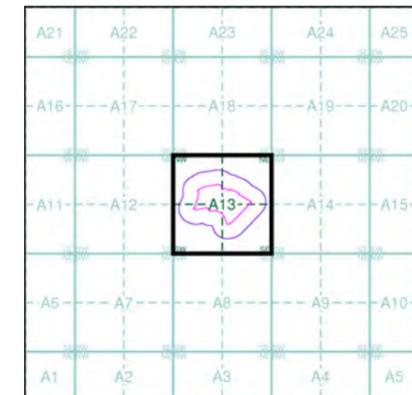
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8809	SM8909
1978	1978
12,500	12,500
SM8808	
1978	
12,500	

Historical Map - Segment A13



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Additional SIMs

Published 1990

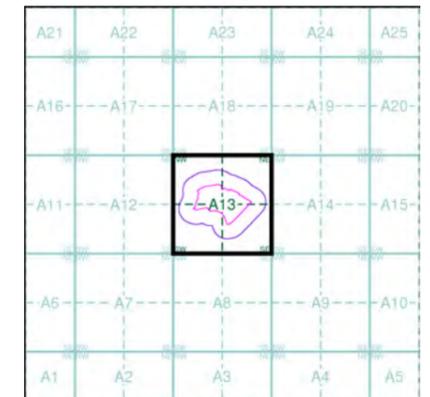
Source map scale - 1:2,500

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)

SM8809	1990	1:2,500
SM8808	1990	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Large-Scale National Grid Data

Published 1995

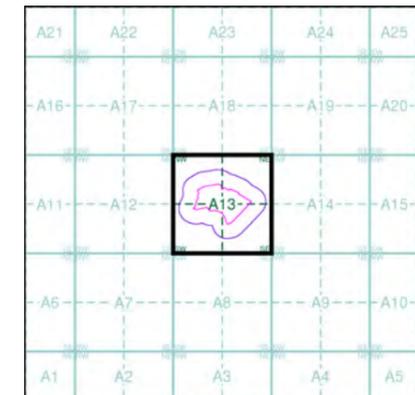
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8809	SM8909
1995	1995
12,500	12,500
SM8808	SM8908
1995	1995
12,500	12,500

Historical Map - Segment A13

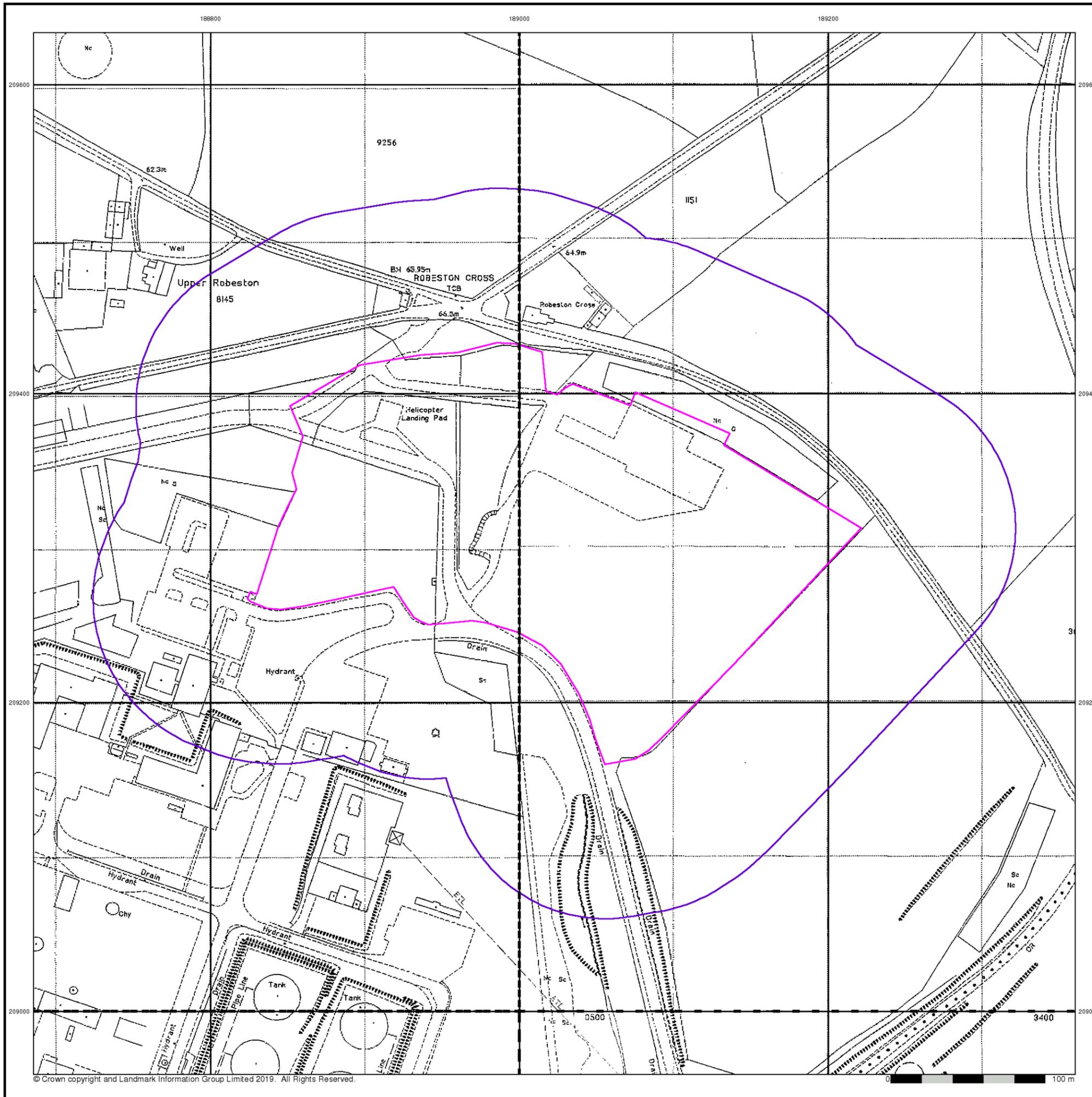


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



188800

189000

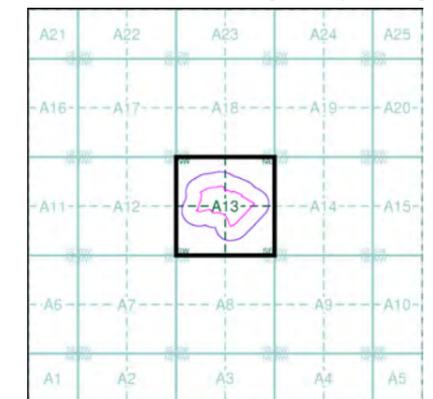
189200

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 A13



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 100

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	-285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Bracken
	Heath		Rough Grassland
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

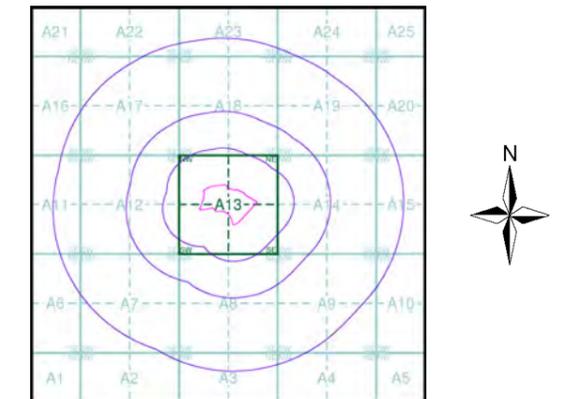
1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	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
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	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)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1868	3
Pembrokeshire	1:10,560	1887	4
Pembrokeshire	1:10,560	1908 - 1909	5
Pembrokeshire	1:10,560	1939 - 1953	6
Milford Haven	1:5,000	1950	7
Pembrokeshire	1:10,560	1953	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1970 - 1978	10
Ordnance Survey Plan	1:10,000	1977	11
Ordnance Survey Plan	1:10,000	1992 - 1994	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2019	15

Historical Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Fireproof Building

Prominent Fireproof Building

Non-fireproof Building

Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys

Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale

Hydroelectric Power Station

Radio Station, drawn to scale

Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry

Open-pit Salt Mine

Pit

Oil Deposit or Well

Oil Seepage

Tailings Pile

Fuel Storage Tanks

Natural Gas Tank

Bench Mark

Drill Hole

Burial Mound

Triangulation Point on Burial Mound

Fill

Cut

Small Bridge

Pipe (Culvert)

Tunnel

Single-track Railroad

Double-track Railroad and Station Building

Coniferous Forest

Deciduous Forest

Mixed Forest

Lawns

Citrus Orchard

Wet Ground

Scattered Vegetation

243,8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

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

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Partly Demolished Buildings

Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant

Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building

Prominent Industrial Building

Individual Dwelling, Fireproof

Ruins of an Individual Dwelling

Factory or Mill Chimney

Factory or Mill with Chimney

Factory or Mill without Chimney

Mine or Open Pit Mine

Operating Shaft or Mine

Non-Operating Shaft or Mine

Salt Mine

Tailings Pile

Pit

Stone Quarry

Gas Pump or Service Station

Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick

Small Hydroelectric Power Station

Power Station

Transformer Station

Cemetery

Burial Mound (height in metres)

Triangulation Point on Burial Mound

Triangulation Point

Bench Mark

Bench Mark (monumented)

Telegraph Office

Telephone Station

Radio Station

Radio Tower

Airfield or Seaplane Base

Landing Strip

Cut

Fill

Km Post

Plantings

Width of Road

Steep Grade

Telegraph/Telephone Lines

Main Highway

Highway under Construction

Improved Dirt Road (former truck road)

Small Bridge

Pipe (Culvert)

Tunnel

Dismantled Railroad

Double-track Railroad with First Class Station

Railroad Under Construction

Shore Embankment

River or Ditch with Embankment

Direction and velocity of current

Water Gauge

Water Level Mark

Well

Water Reservoir or Rain Water Pit

Spring

Isobath with value

Heavy (Index) Contour Line

Contour Line and Value

Half Contour Line

Spot Elevation Value

Coniferous

Deciduous

Mixed

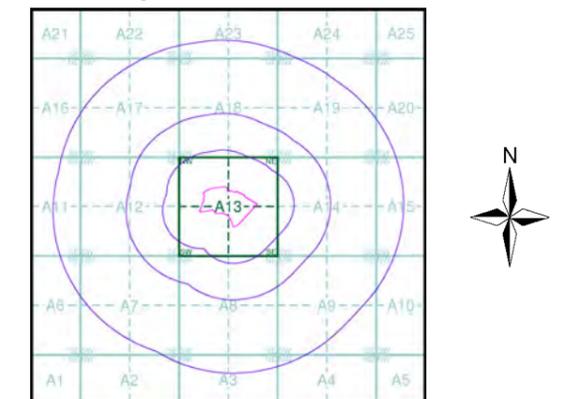
Scrub

Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1868	3
Pembrokeshire	1:10,560	1887	4
Pembrokeshire	1:10,560	1908 - 1909	5
Pembrokeshire	1:10,560	1939 - 1953	6
Milford Haven	1:5,000	1950	7
Pembrokeshire	1:10,560	1953	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1970 - 1978	10
Ordnance Survey Plan	1:10,000	1977	11
Ordnance Survey Plan	1:10,000	1992 - 1994	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2019	15

Russian Map - Slice A

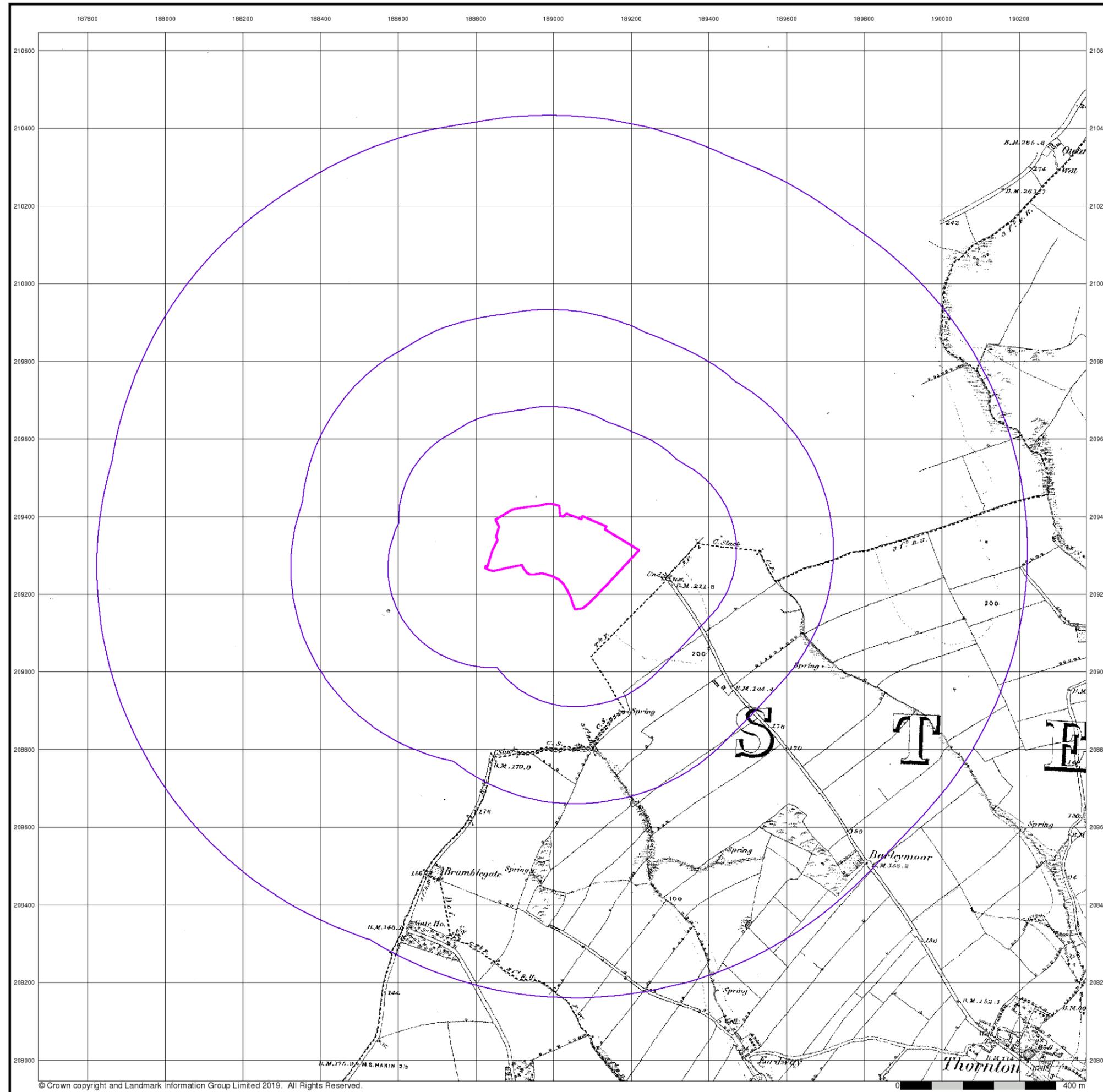


Order Details

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 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

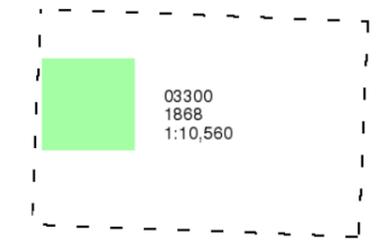
Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



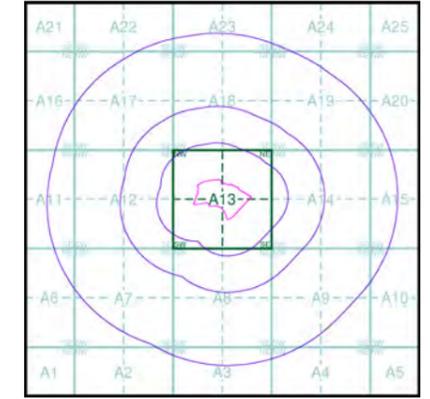
Pembrokeshire
Published 1868
Source map scale - 1:10,560

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)

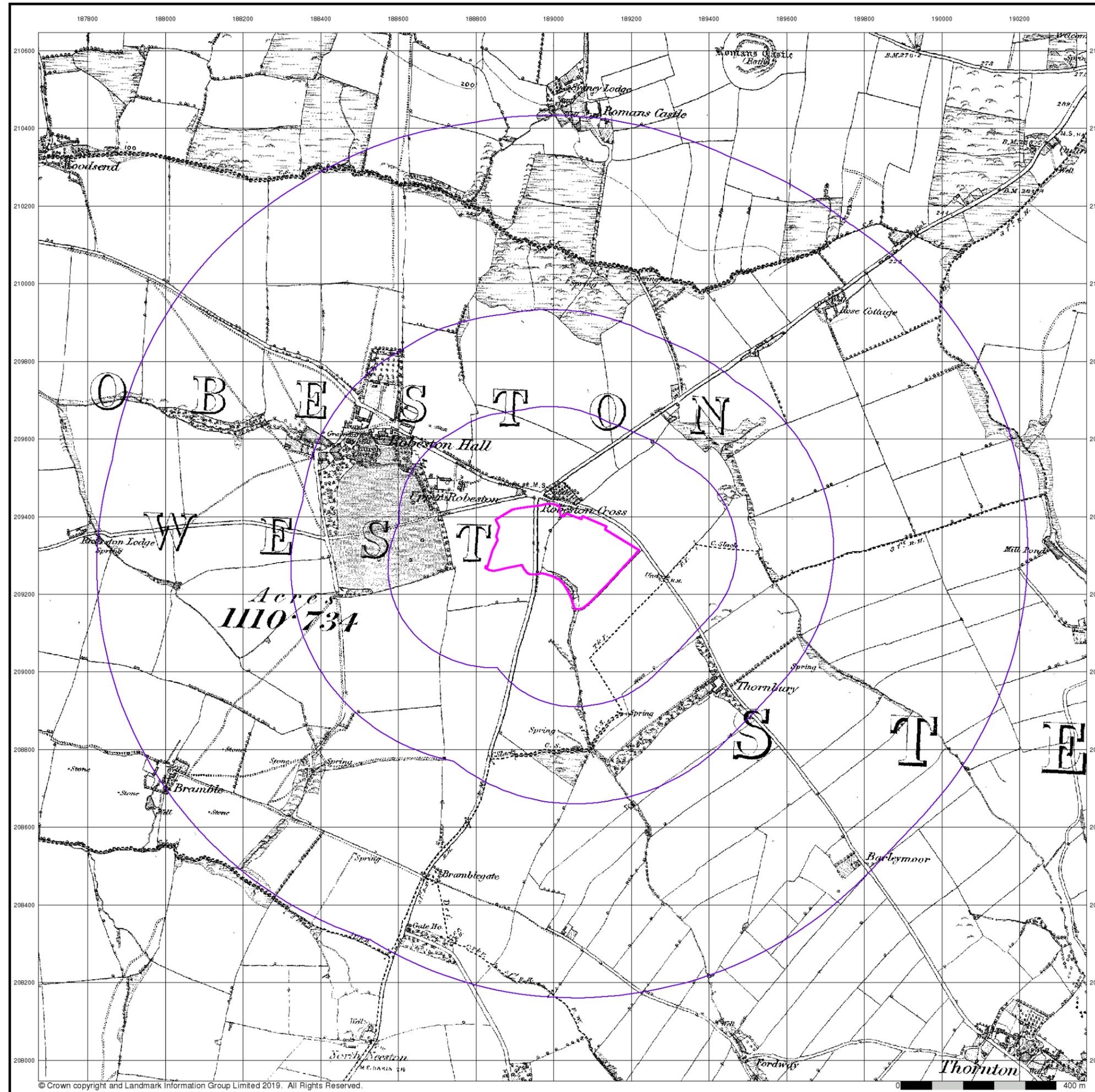


Historical Map - Slice A



Order Details
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 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

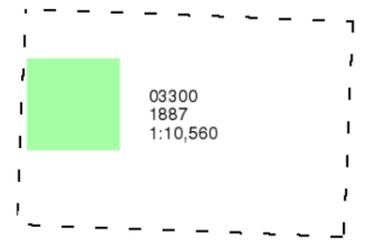
Site Details
 Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



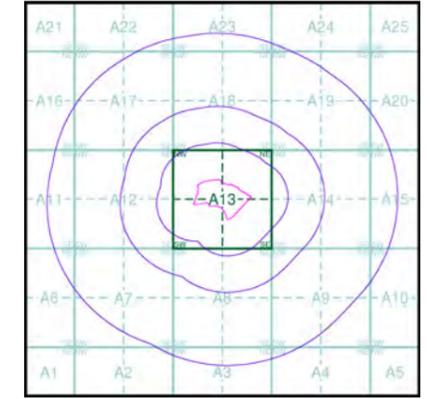
Pembrokeshire
Published 1887
Source map scale - 1:10,560

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)

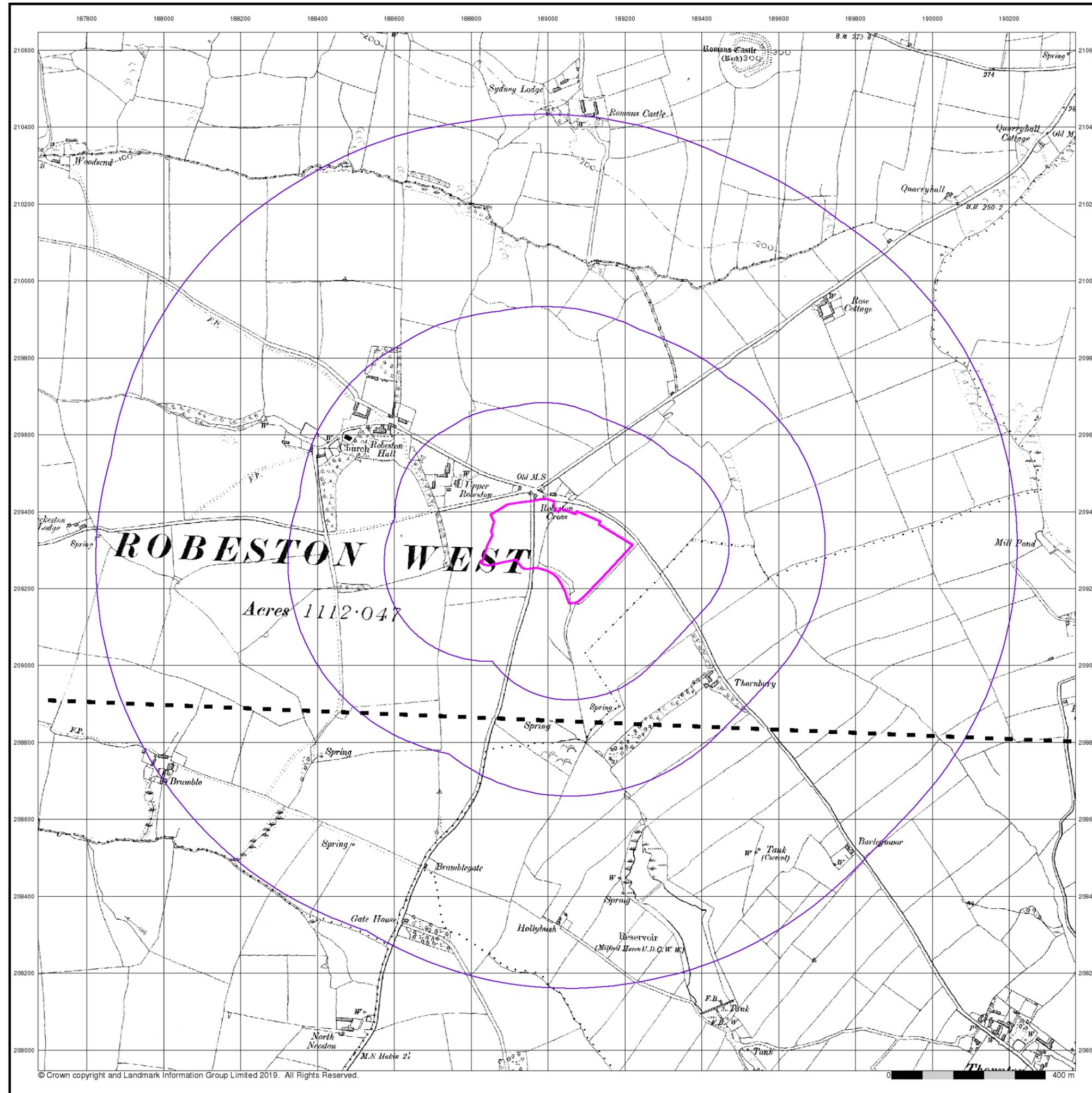


Historical Map - Slice A



Order Details
 Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details
 Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



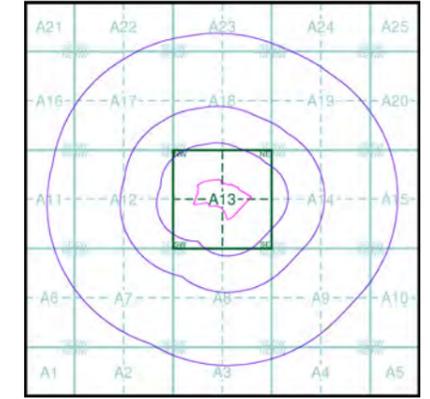
Pembrokeshire
Published 1908 - 1909
Source map scale - 1:10,560

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)

033NW	1908	1:10,560
033SW	1909	1:10,560

Historical Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

Pembrokeshire

Published 1939 - 1953

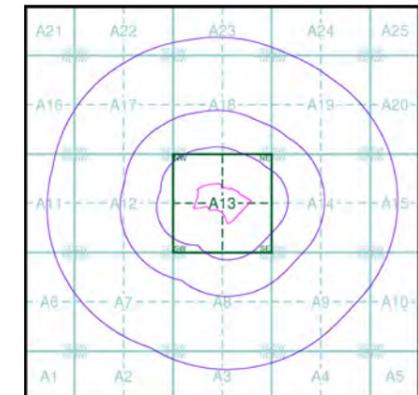
Source map scale - 1:10,560

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)

033NW	1953	1:10,560
033SW	1939	1:10,560

Historical Map - Slice A

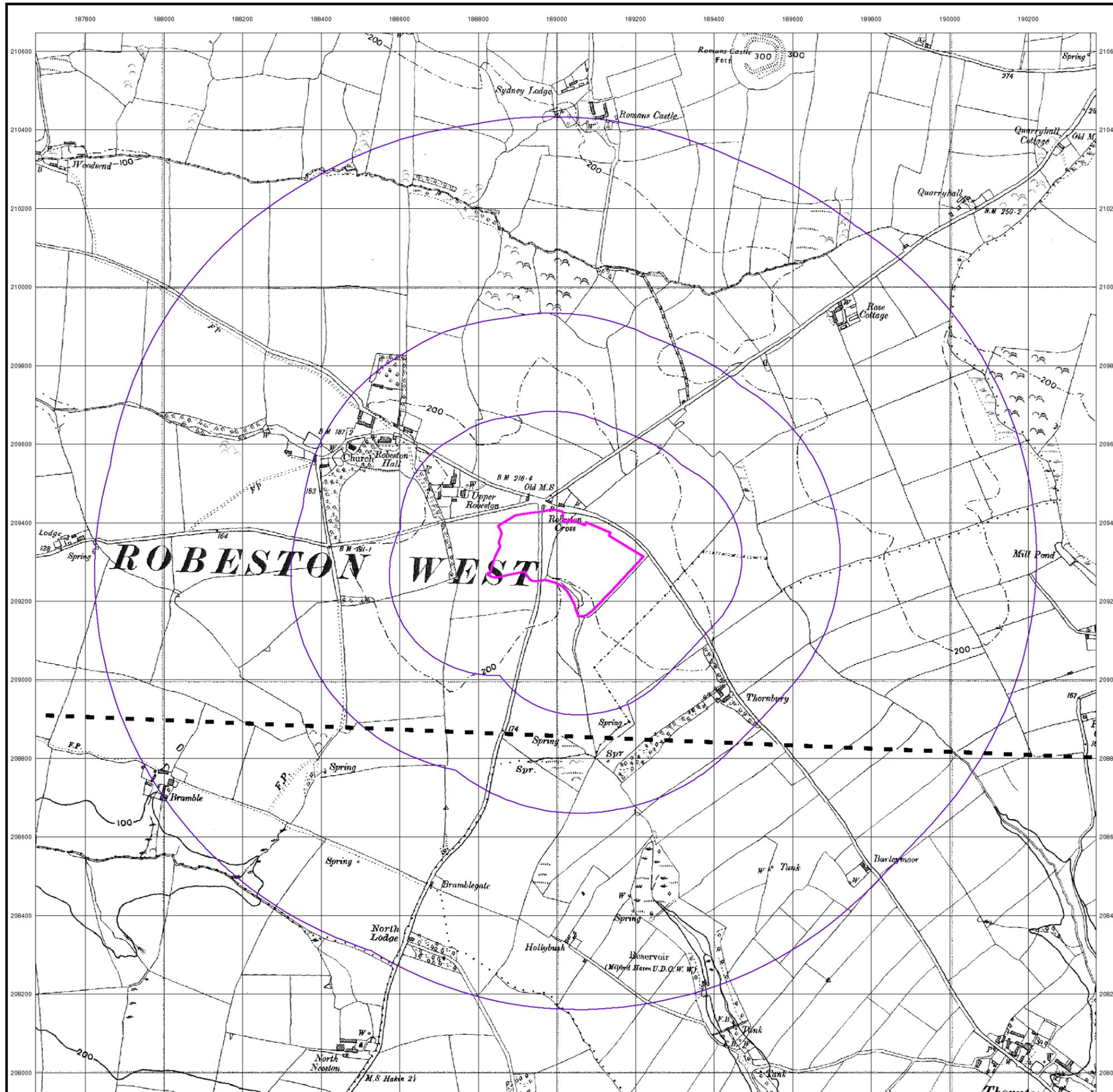


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



Milford Haven

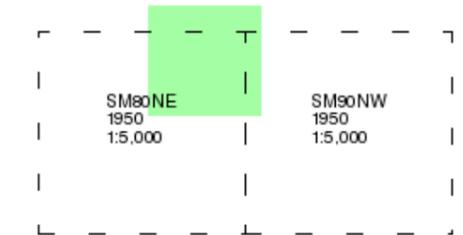
Published 1950

Source map scale - 1:5,000

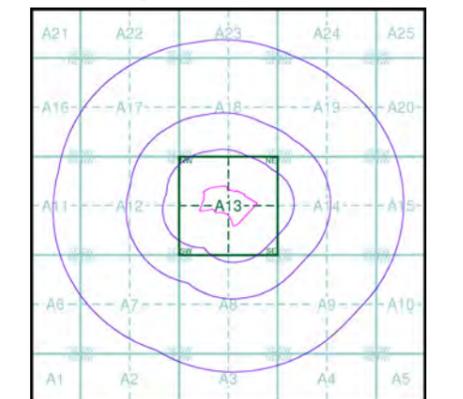
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed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

Map Name(s) and Date(s)



Russian Map - Slice A

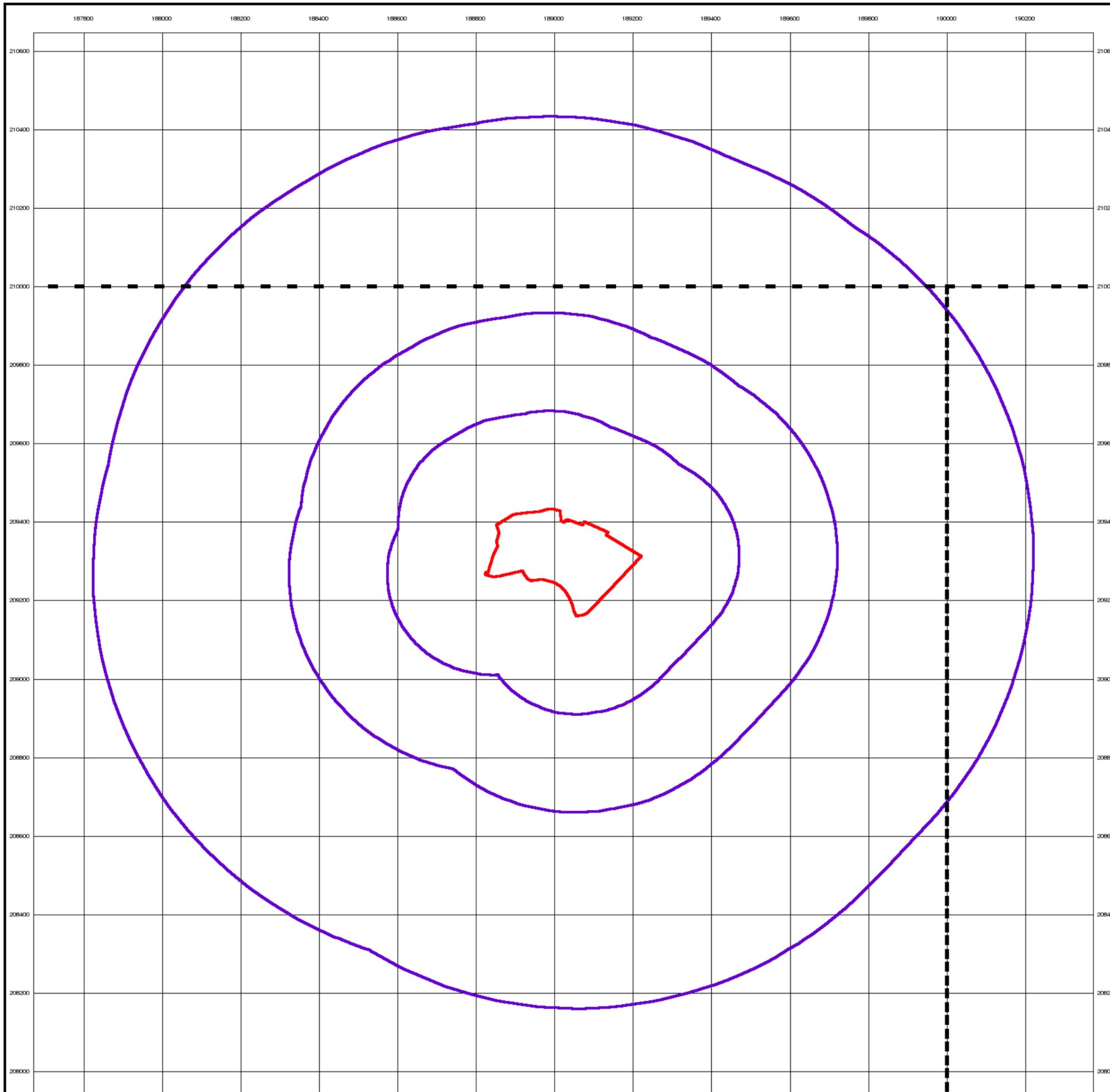


Order Details

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 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



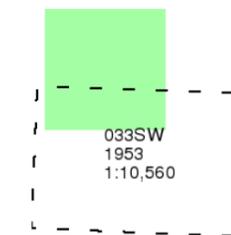
Pembrokeshire

Published 1953

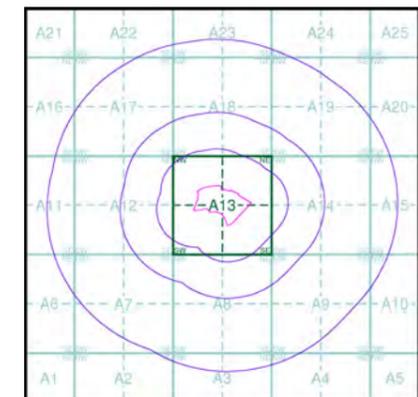
Source map scale - 1:10,560

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

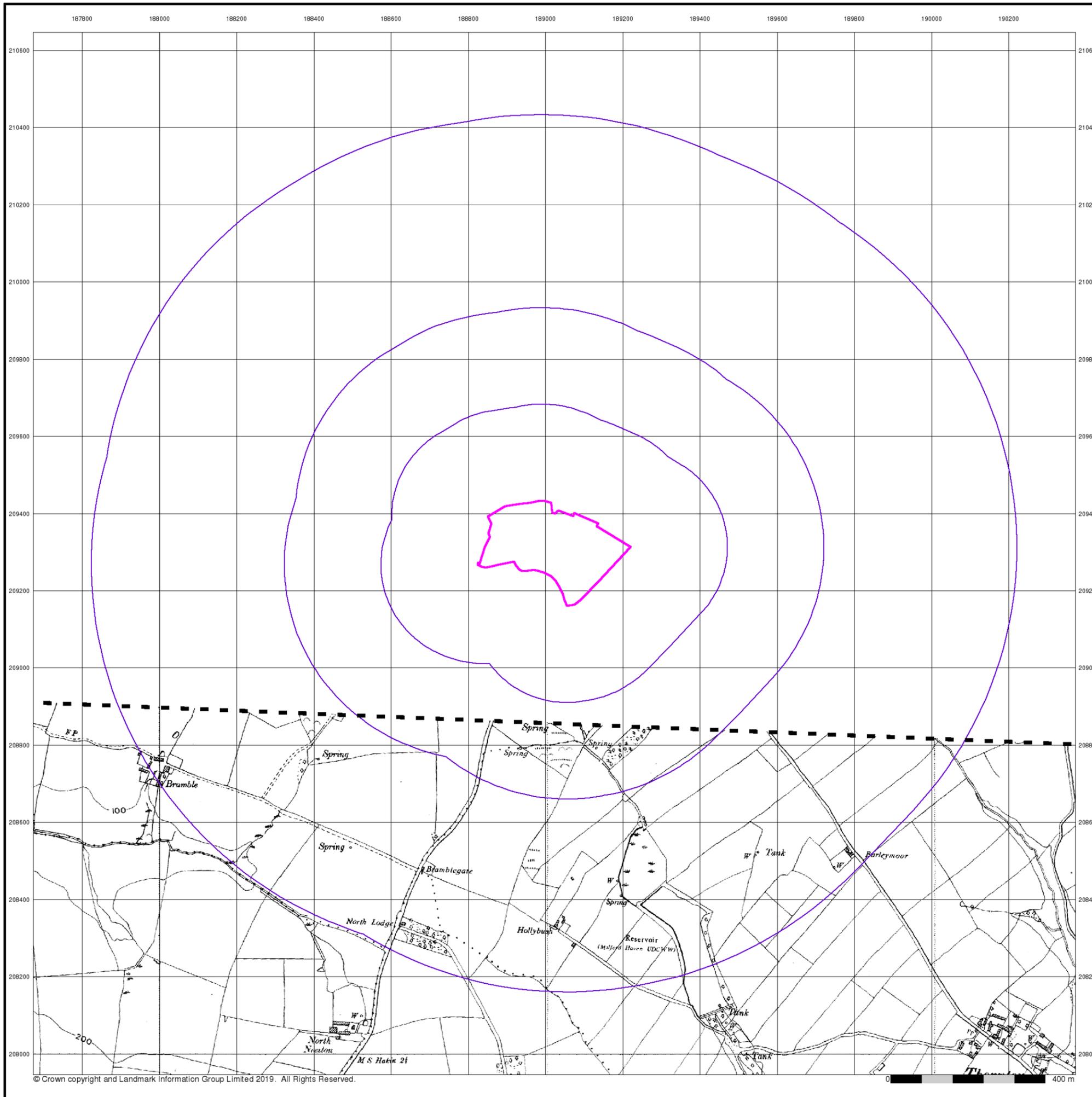


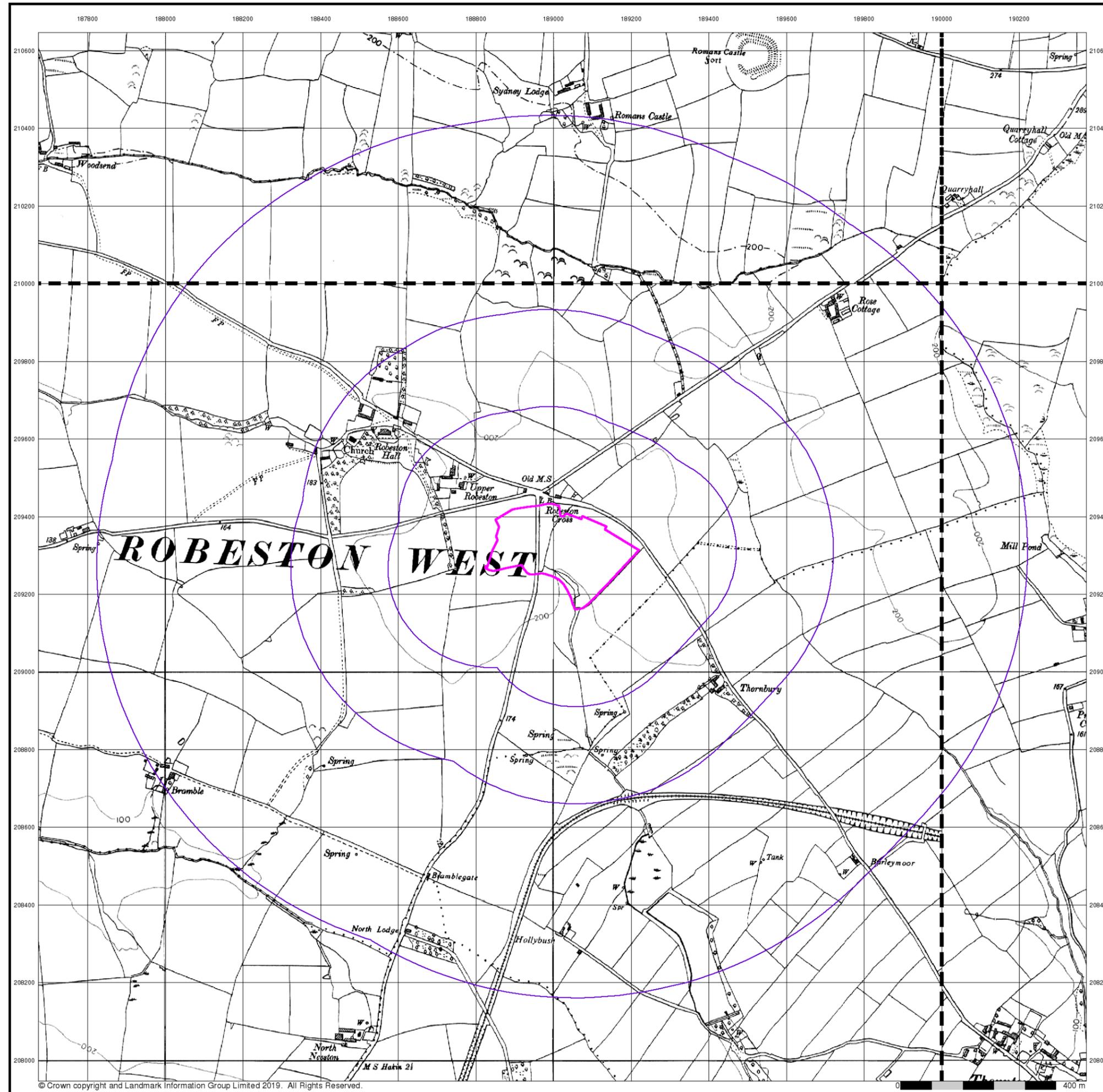
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 Customer Ref: 47244
 National Grid Reference: 189010, 209300
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB





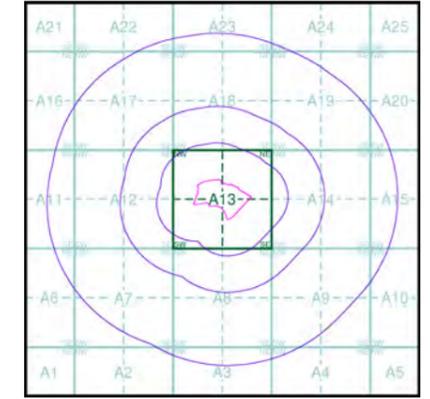
Ordnance Survey Plan
Published 1964
Source map scale - 1:10,000

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)

SM81SE	SM91SW
1964	1964
1:10,560	1:10,560
SM80NE	SM90NW
1964	1964
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB

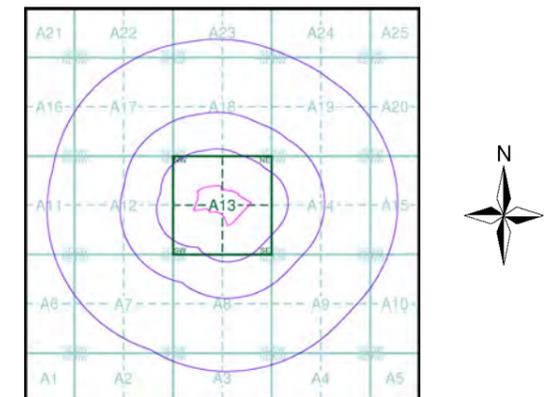
Ordnance Survey Plan
Published 1970 - 1978
Source map scale - 1:10,000

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)

SM81SE 1978 1:10,000	SM91SW 1976 1:10,000
SM80NE 1978 1:10,000	SM90NW 1970 1:10,560

Historical Map - Slice A

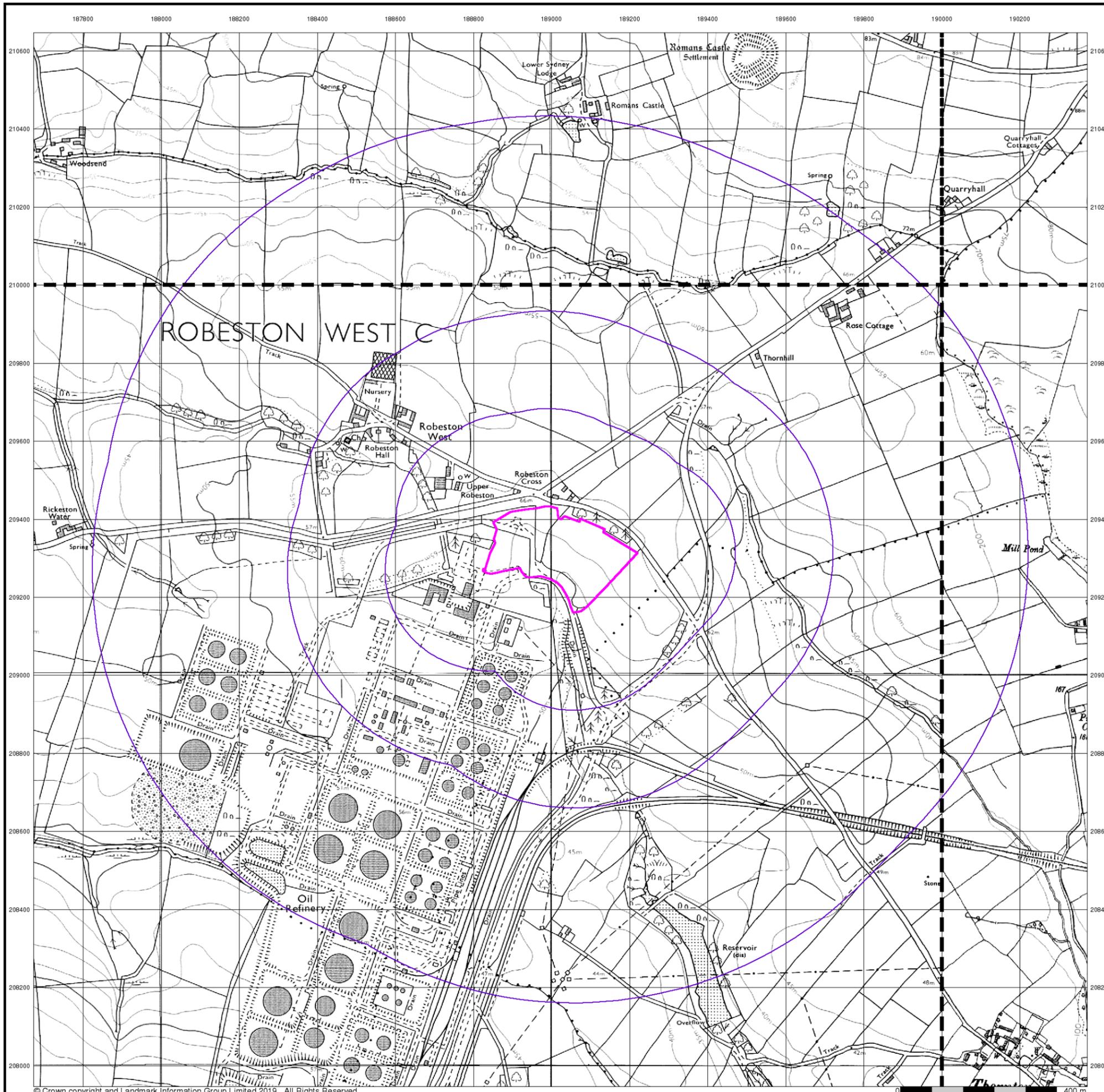


Order Details

Order Number: 224812314_1_1
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



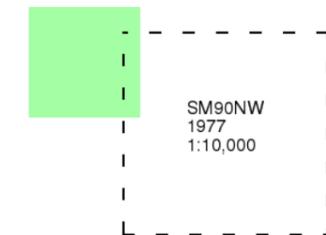
Ordnance Survey Plan

Published 1977

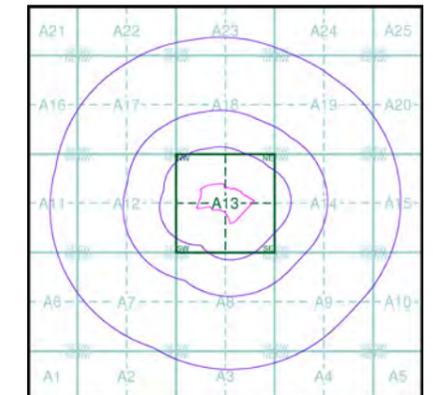
Source map scale - 1:10,000

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

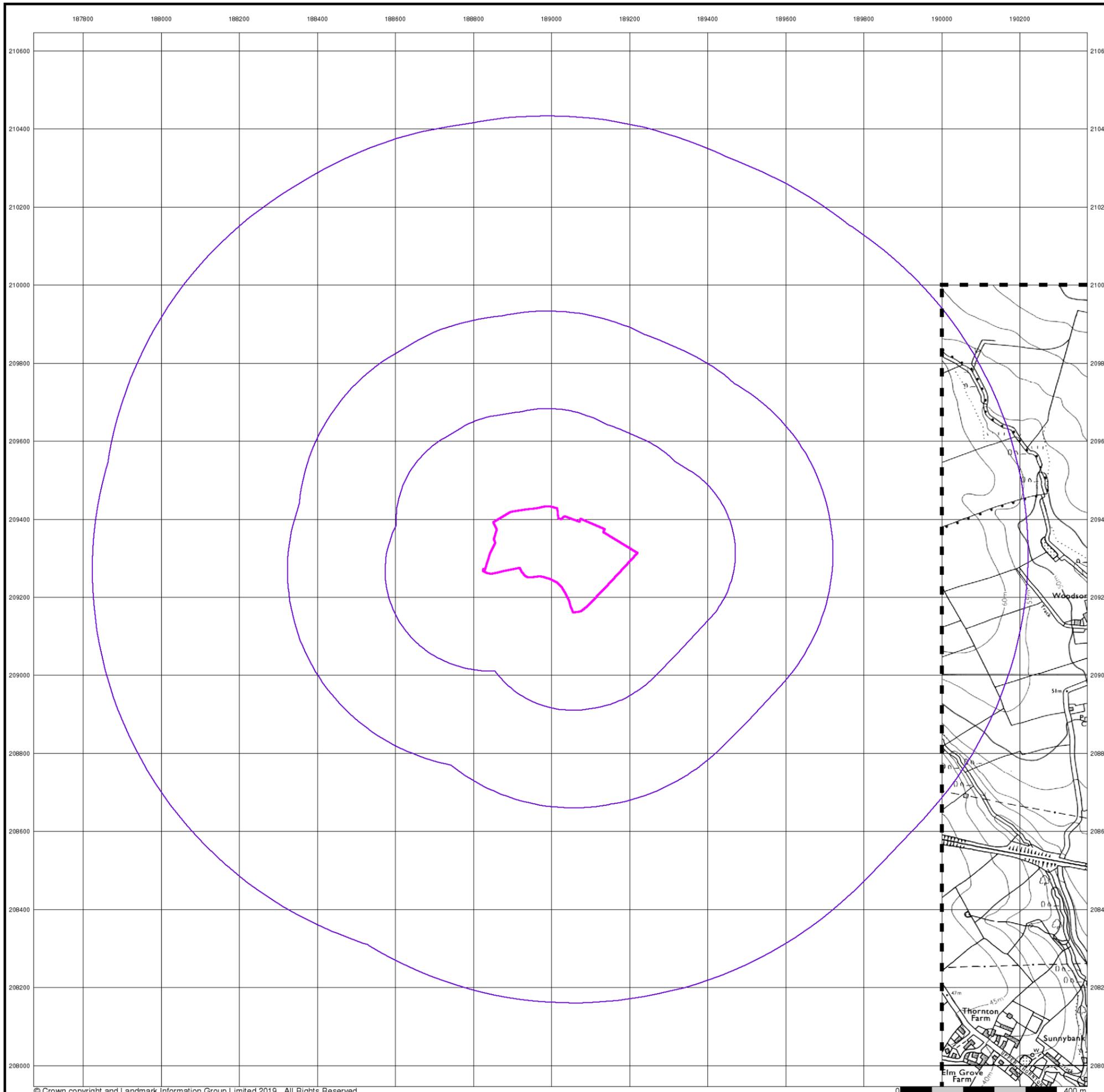


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 Customer Ref: 47244
 National Grid Reference: 189010, 209300
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



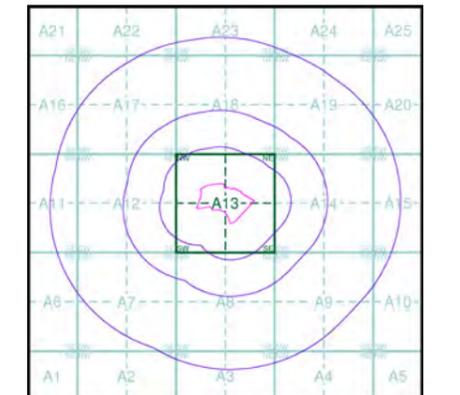
Ordnance Survey Plan
Published 1992 - 1994
Source map scale - 1:10,000

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)

SM80NE 1994 1:10,000	SM90NW 1992 1:10,000
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Historical Map - Slice A



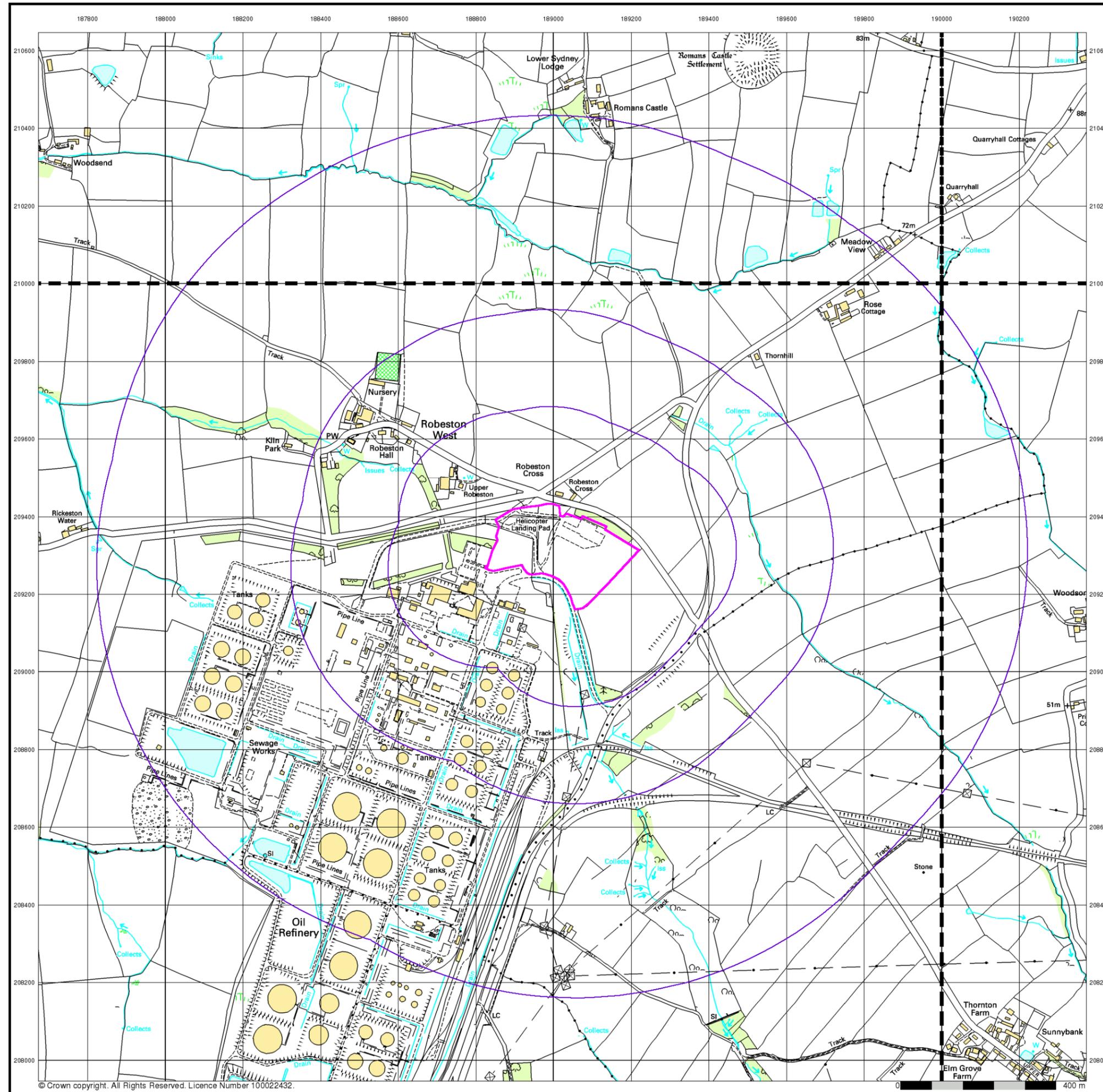
Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
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Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB





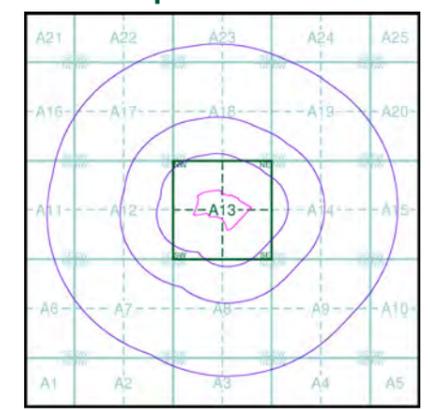
10k Raster Mapping
Published 2000
Source map scale - 1:10,000

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)

SM81SE 2000 1:10,000	SM91SW 2000 1:10,000
SM80NE 2000 1:10,000	SM90NW 2000 1:10,000

Historical Map - Slice A

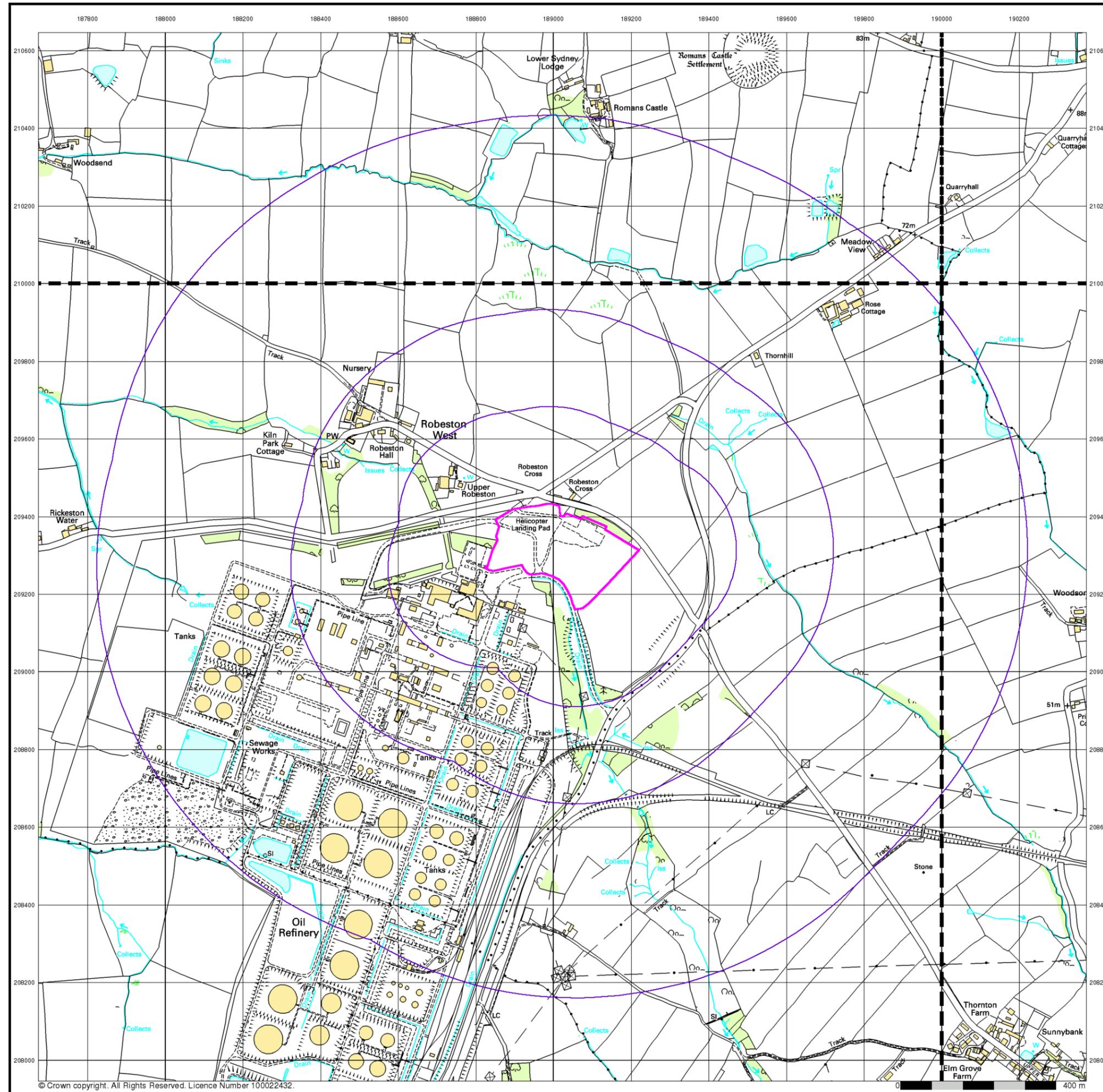


Order Details

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 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



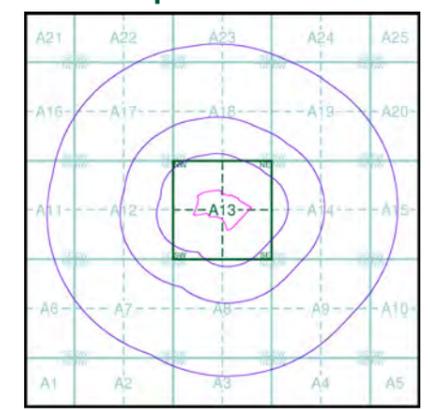
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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)

SM81SE 2006 1:10,000	SM91SW 2006 1:10,000
SM80NE 2006 1:10,000	SM90NW 2006 1:10,000

Historical Map - Slice A

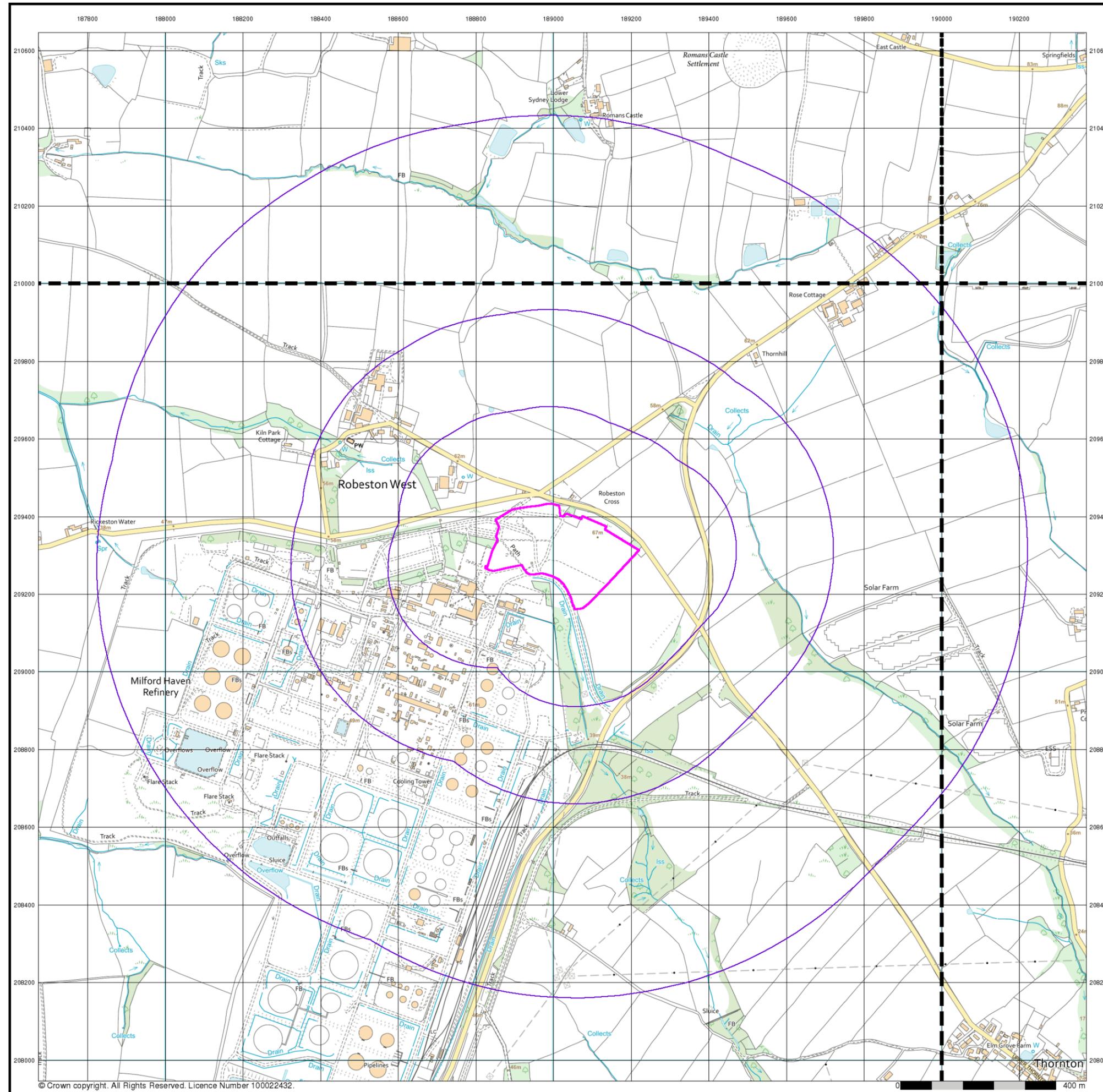


Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Robeston West, MILFORD HAVEN, SA73 3FB



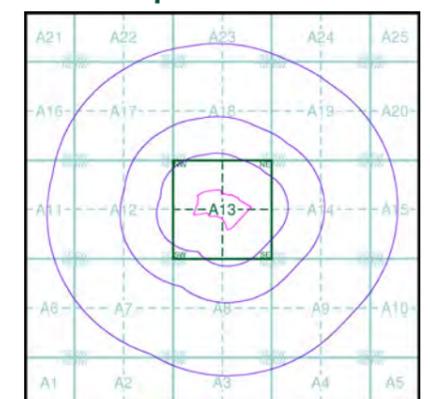
VectorMap Local
Published 2019
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SM81SE	SM91SW
2019	2019
Variable	Variable
SM80NE	SM90NW
2019	2019
Variable	Variable

Historical Map - Slice A



Order Details

Order Number: 224812314_1_1
 Customer Ref: 47244
 National Grid Reference: 189010, 209300
 Slice: A
 Site Area (Ha): 5.8
 Search Buffer (m): 1000

Site Details

Site at, Puma Energy UK Ltd., Roboston West, MILFORD HAVEN, SA73 3FB

Appendix B Site Reconnaissance Visit Photographs



Photograph 1: View looking northeast across Area 1.



Photograph 2: View of container storage in north of Area 1.



Photograph 3: View southwards across Area 1, from northern Site boundary



Photograph 4: View southwest across Area 2.



Photograph 5: View of Helipad in Area 2



Photograph 6: View eastwards across Area 1 and Area 3

Table 1 – Environmental Risk Assessment

Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk
Discharge (trade effluent) to surface water	Existing ditches and drainage systems	Surface run-off	Site is to be fully contained and collected drainage water removed for off site disposal	Slab defects and site overflows could result in problems off site	Adverse impacts on surface water systems	Low if management techniques are used
Discharge (trade effluent) to groundwater	Milford Haven Group - 'Secondary A' Aquifer	Leaching	Site is to be fully contained, floor slab integrity to be maintained. Regular inspections by nominated personnel	Slab defects and site overflows could result in problems offsite	Potential spread of contamination and adverse impacts on groundwater	Low if management techniques are used
Spillages (fuel and/or oil) from site vehicles	Existing ditches, drainage systems and groundwater	Surface run-off	Site is to be fully contained and collected drainage water removed for off site disposal	Slab defects and site overflows could result in problems offsite	Potential spread of contamination and adverse impacts on surface water and groundwater	Low if management techniques are used
Leaks from drainage systems	Soils, ground water and surface water systems	Vertical / Lateral Migration	Regular inspections by nominated personnel	Drainage system defects could result in problems offsite	Potential spread of contamination and adverse impacts on surface water and groundwater	Low if management techniques are used
Odour	Off-Site – Human Health Human Health – Site Workers & Site Visitors	Airborne / Wind Blown	Application of odour reducing systems. Regular monitoring to be carried out during operation.	Wind direction towards residential properties to north & west of the site could result in offsite problems	Adverse impacts on neighbouring residential developments	Low if management techniques are used
Noise	Off-Site – Human Health Human Health – Site Workers & Site Visitors	Airborne / Wind Blown	Regular monitoring to be carried out during operation	Wind direction towards residential development north of the site could result in offsite problems	Adverse impacts on neighbouring residential developments	Low if management techniques are used
Emissions to air: Dust from screening plant	Off-Site – Human Health	Airborne / Wind Blown	Regular monitoring to be carried out during operation	Wind direction towards residential development north of the site could result in offsite problems	Adverse impacts on neighbouring residential developments	Low if management techniques are used
Pests: flies	Human Health – Site Workers & Site Visitors	Airborne	Isolating and securing or removing waste that attracts scavengers. Regular inspections by nominated personnel	Waste left unattended could result in problems offsite	Potential for spread of disease and adverse health impacts on vulnerable people	Low if management techniques are used
Litter	Human Health – Site Workers & Site Visitors Off-Site – Human Health	Wind Blown	Ensure proper housekeeping of site at all times. Regular inspections by nominated personnel	Waste left unattended could result in problems on site, leading to offsite issues	Adverse impacts on neighbouring residential developments	Low if management techniques are used