



Phase 1 Preliminary Risk Assessment

Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB

23 January 2024

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22016/PH1



DOCUMENT CONTROL SHEET

Client	Andrea and Marcus Bawden
Project Title	Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB
Document Title	Phase 1 Preliminary Risk Assessment
Document No.	22016/PH1

Date	Status	Revision	Prepared By	Approved By
23 January 2024	Final	-	SLW	WJC



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EXECUTIVE SUMMARY

Objectives

Wheal Jane Consultancy was commissioned by Andrea and Marcus Bawden to undertake an environmental risk assessment for a proposed development.

Site Setting

Current Use

The site is currently part of a garden area, predominantly occupied by a grassy lawn and polytunnel.

Proposed Development

It is proposed to develop the site with two residential properties, with associated access, parking, and garden areas.

History

The site was part of an open agricultural field until the time of the production of the 2023 map and 2024 aerial photography, by which time a hardstanding access track and several field boundaries were constructed.

The site has been predominantly surrounded by agricultural land since the earliest maps. A handful of small quarries and a smithy were present in the surrounding area in the late 19th century. The area underwent minor residential development in the mid-20th century.

Geology

The geological map indicates that the site is underlain by the Bovisand Formation of Devonian age formed between 410.8 and 393.3 million years ago.

Controlled Waters

The site possesses a very low RoFRaS Flood Rating (Risk of Flooding from Rivers and the Sea).

Radon

The development is within an area where 10 - 30% of properties are above the action level for Radon.

Conclusions

- The contamination risk to the site from on-site sources, including natural geology, is considered **Low**.
- The contamination risk to the site from off-site sources, including contemporary trade and discharge consents, is considered **Low**.
- In the absence of a significant source of contamination, it can be concluded that this site is suitable for its intended future use and that no further investigation will be required.

Recommendations

- Full radon protective measures are required for the proposed development in-line with BRE guidelines.



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- In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.
 - All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.
 - Waste material to be removed from site should be handled by a suitably licensed waste contractor.
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1 INTRODUCTION

1.1 General

1.1.1 Wheel Jane Consultancy was commissioned by Andrea and Marcus Bawden to undertake an environmental risk assessment at the site known as 'Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB.' Wheel Jane Consultancy was formally instructed to proceed via email on the 8th January 2024.

1.1.2 This report has been prepared by Wheel Jane Consultancy solely for the benefit of the client. It shall not be relied upon or transferred to any third party without the prior written authorisation of Wheel Jane Consultancy.

1.2 Previous Reports

1.2.1 No previous land contamination reports are known to have been commissioned for this site.

1.3 Scope and Objectives

1.3.1 The Objective of this Desk Study is to examine past and present site conditions to identify any potential risk of contamination or ground instability resulting from historical and contemporary site usage. Any recommendations for further works have been made as deemed appropriate, based upon the findings of the investigation.

1.3.2 This assessment has been undertaken with guidance from BS10175:2011+A2:2017 and the UK government Land Contamination Risk Management (LCRM) framework published October 2020 (superseding Environment Agency report CLR11), and as such represents a Phase 1 Desk Study / Preliminary Risk Assessment.

1.3.3 This report does not constitute an asbestos inspection that may fall within the 'Control of Asbestos' regulations, 2006.

1.3.4 The conclusions and recommendations of this report are valid for a period of 12 months from the date of issue. Outside of this time frame the report will require reviewing by a suitably qualified geoenvironmental engineer / environmental scientist, to ensure that the report complies with any changes to industry standards, policies and/or guidelines.

1.3.5 It is recommended that a copy of this report be submitted to the local authority for checking, prior to commissioning any further work which may be required.

1.4 Information Sources

1.4.1 This assessment has been based upon mapping and information obtained from a number of trusted third-party sources. Although we only use information from trusted sources, Wheel Jane Consultancy cannot accept any responsibility for any inaccuracy of third-party information. The sources used in this assessment are listed below:

- Planning Applications PA22/04733



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- Landmark Environmental Data dated 10th January 2023.
- Historic mapping dated 10th January 2023.
- Zefica Unexploded Ordnance (UXO) risk map.
- BGS sheet 346, Newquay



2 PHASE 1 PRELIMINARY RISK ASSESSMENT

2.1 Site Location and Layout

- 2.1.1 The site is located off the A389 approximately 8.30km northeast of Newquay. The site is approximately centred on National Grid Reference 188190, 65930.
- 2.1.2 The site is irregular in shape and covers an area of 0.15ha.
- 2.1.3 A site location plan (SLP) is contained in Figure 2.1, to the rear of the report.
- 2.1.4 The current site plan is contained in Figure 2.2, to the rear of the report.

2.2 Surrounding Area

Direction	Land Use
North	Agricultural land
East	Agricultural land
South	Agricultural land
West	Residential

2.3 Site Walkover Survey

- 2.3.1 Wheal Jane Consultancy conducted a site walkover survey on 12th January 2024. Photographs from the walkover survey are provided in Appendix A.
- 2.3.2 The site is currently a residential garden area. It is predominantly occupied by a grassy lawn.
- 2.3.3 A polytunnel is located centrally on site, currently in use for growing produce.
- 2.3.4 Several field boundaries, delineated by wire fences, cross the site.
- 2.3.5 The eastern section of the site is occupied by an open grassy lawn.
- 2.3.6 Several mature fruit trees are present in the eastern section of the site.
- 2.3.7 The western section of the site is occupied by several garden beds, in use for growing produce.
- 2.3.8 Miscellaneous items associated with gardening, such as water butts and plant pots, are noted to be occasionally present on site.
- 2.3.9 A banded plastic tank is present in the western section of the site. It is currently in use as a composter.
- 2.3.10 Access to the site is provided by a gravel track entering from the west, running past the adjacent 'Ryeland' property.
- 2.3.11 Topographically speaking, the site slopes gently to the north.



2.4 Proposed Development

- 2.4.1 It is proposed to develop the site with two residential properties, with associated access, parking, and garden areas.
- 2.4.2 The proposed site plan is contained in Figure 2.3, to the rear of the report.

2.5 Site History

- 2.5.1 Using a range of historical mapping sources, an overview of the findings relating to the site and its surroundings can be found below in Table 2.1. Where maps of similar dates are provided (eg maps with differing scales) showing similar information, they may be summarised together.

Table 2.1: Summary of Historical Site Usage

Source	On Site	Surroundings
Ordnance Survey, 1880-1881, 1:2,500	The site is occupied by open agricultural land	The site is predominantly surrounded by agricultural land. Small quarries are present 780m W and 950m N Corn mill 800m S Smithy 850m W
Ordnance Survey, 1907, 1:2,500 and 1908, 1:10,560	No significant change	No significant change
Ordnance Survey, 1962-1963, 1:10,560	No significant change	St Mawgan Airfield present 1km SW



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Ordnance Survey,
1967-1972, 1:2,500

No significant
change

Minor residential development
in the surrounding area

Ordnance Survey,
1995, 1:2,500

No significant
change

No significant change

Aerial Photo, 2001

The site is situated
in an open, grassy,
agricultural field.

A muddy track is
present in the
western extent of
the site.

Several detached houses are
present in the immediate
surrounding area.

Predominantly, the site is
surrounded by open
agricultural land.

Ordnance Survey,
2006, 1:10,000

No significant
change

No significant change

Ordnance Survey,
2016, 1:10,000

No significant
change

No significant change



Ordnance Survey, 2023, 1:10,000	The eastern extent of the site has now been subdivided by a field boundary	No significant change
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Aerial Photo, 2024	A hardstanding access track is present in the western extent of the site.	No significant change
	Vegetated field boundaries are present in the eastern extent of the site.	
	A polytunnel is also present in the eastern extent of the site.	

2.5.2 The site was part of an open agricultural field until the time of the production of the 2023 map and 2024 aerial photography, by which time a hardstanding access track and several field boundaries were constructed.

2.5.3 The site has been predominantly surrounded by agricultural land since the earliest maps. A handful of small quarries and a smithy were present in the surrounding area in the late 19th century. The area underwent minor residential development in the mid-20th century.

2.6 Geological Setting

Table 2.2: Overview of the geological setting

Geology

Reference has been made to the Published Geology (BGS sheet 346, Newquay, 1:50,000), as well as the BGS online map viewer.



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Superficial Geology

The geological map shows no superficial deposits to be present on site.

Bedrock Geology

The geological map indicates that the site is underlain by the Bovisand Formation of Devonian age formed between 410.8 and 393.3 million years ago. The BGS describes this unit as "Slaty mudstone, medium to dark grey, with thin sandstone beds and sporadic thin limestone beds."

Geology from BGS Borehole Records/Previous Site Investigation Records

There is no evidence of BGS boreholes or previous intrusive ground investigations in the immediate surrounding area.

Background Estimated Soil Chemistry

- Arsenic: 45 - 60 mg/kg
- Cadmium: <1.8 mg/kg
- Chromium: 60 - 90 mg/kg
- Lead: <100 mg/kg
- Nickel: 15 - 30 mg/kg

Values for arsenic exceed guideline values for residential end uses, however arsenic is typically of low bioaccessibility (see Conceptual Site Model below). The values for other metals do not exceed guideline values for commercial or residential end uses.

Radon

The property is in a Radon Affected Area, as 10-30% of properties are above the action level.



2.7 Environmental Setting

2.7.1 The table below outlines the key environmental settings relating to the site.

Table 2.3: Overview of the environmental setting

Hydrology/Surface Water	
Nearest Surface Water Feature	The nearest surface water feature is identified 66m E of the site, understood to be a pond.
OS Water Network	There are five Inland rivers present within 250m of the proposed development: 227m NE, 230m NE, 231m NE, 238m NE, 249m NE
	There is one pond present within 250m of the proposed development: 66m E
	There are no lakes or reservoirs present within 250m of the proposed development.
Surface Water Abstractions	There are no tidal rivers or streams within 250m of the proposed development. There are no active surface water abstraction licences within 1000m of the planned development.
Monitoring	There is no biological monitoring data within 500m of the site.
	No chemical monitoring data has been recorded within 500m of the site.
Hydrogeology/Groundwater	
Superficial Aquifer	There is no recorded superficial aquifer underlying the site.
Bedrock Aquifer	The Bovisand Formation bedrock is classified as a Secondary A aquifer of High Vulnerability.
Source Protection Zones	There are no source protection zones within 1000m of the site.
Groundwater Abstractions	There is one groundwater abstraction licence recorded within 1000m of the site: 669m N, General Farming and Domestic
Sensitive Land Uses	
Environmental	There is one area of Ancient Woodland within 2000m of the proposed development: 768m S, Unnamed



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	<p>There are no Areas of Adopted Green Belt, Areas of Unadopted Green Belt, Areas of Outstanding Natural Beauty, Environmentally Sensitive Areas, Forest Parks, Local Nature Reserves, Marine Nature Reserves, National Nature Reserves, National Parks, Nitrate Sensitive Areas, Nitrate Vulnerable Zones, Ramsar Sites, Sites of Special Scientific Interest, Special Areas of Conservation, Special Protection Areas or World Heritage Sites within 2000m of the site.</p> <p>The proposed development is not within an existing Nitrate Vulnerable Zone (NVZ).</p>
Heritage/ Archaeological	<p>The site is not within the Cornwall and West Devon Mining World Heritage Site.</p> <p>There are no archaeologically significant features in or around the immediate surroundings of the site.</p>
Other Environmental Information	
Contaminated Land	<p>No sites determined as Contaminated Land under Part 2A EPA 1990 are situated within 500m of the site.</p> <p>There are no Environment Agency landfill sites within 1000m.</p> <p>There are no Environment Agency historic landfill sites within 1000m.</p> <p>There are no Licensed Waste Management/Transfer Facilities within 500m.</p>
Waste	<p>One active discharge consent licence has been granted within 500m of the site: 116m W, Sewage – Treated Effluent – Land Soakaway</p> <p>There are no Red List Discharge Consent licences within 500m of the site.</p>
Hazardous Substances	<p>There are no Hazardous substances recorded within 2000m of the site.</p>
Pollution Incidents	<p>There are no recorded pollution incidents within 500m of the proposed development.</p>
Flooding	<p>The site possesses a very low RoFRaS Flood Rating (Risk of Flooding from Rivers and the Sea).</p> <p>The site is within 250m of a Zone 2 or Zone 3 Floodplain area: Zone 2: 166m NE Zone 3: 161m NE</p> <p>There are no groundwater flooding susceptibility areas within 50m of the proposed development.</p>
Current Industrial Land Uses	<p>There are no current potentially contaminative activities identified as industrial land use within 500m of the proposed development.</p>



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Historic Industrial Land Uses	There is one historic potentially contaminative activity identified by contemporary trade directory entries within 500m of the proposed development: 69m W, Lawnmowers and Garden Machinery – Sales & Service
Unexploded Ordnance (UXO)	The risk to the site and its surroundings from the presence of UXO is low (see Appendix D).
Archival Metalliferous Mining Search	A documentary mine search has not been compiled for this property.
Adjacent Planning Applications	There is no evidence of recent adjacent planning applications containing relevant ground contamination investigations.



3 PRELIMINARY CONCEPTUAL MODEL

3.1 Introduction

3.1.1 The Assessment of risk is based upon the principal of the pollutant linkage, which is described in more detail below. This assessment seeks to identify plausible pollutant linkages associated with the proposed development. Once this has been done, the resultant risk is determined based on the probability and the possible consequence of the pollutant linkages being present. As such, this qualitative risk assessment has been undertaken in accordance guidance published in Annex 4 of the National House Building Council/Environment Agency/Chartered Institute of Environmental Health R&D publication 66, Guidance for the Safe Development of Housing on Land Affected by Contamination (NHBC/EA/CIEH, 2008) which updates and supersedes CIRIA C552: Contaminated Land Risk Assessment, A Guide to Good Practice (Rudland et al., 2001).

3.1.2 A summary of the R&D66 risk classification matrix is presented below.

Table 3.1: Risk Classification Matrix

Risk Classification Matrix					
Taken from CIRIA C552	Consequence				
	Severe	Medium	Mild	Minor	
Probability	High Likelihood	Very High	High	Moderate	Moderate / Low
	Likely	High	Moderate	Moderate / Low	Low
	Low Likelihood	Moderate	Moderate / Low	Low	Very Low
	Unlikely	Moderate / Low	Low	Very Low	Very Low

3.2 Preliminary Conceptual Site Model

3.2.1 This conceptual site model has been undertaken with due regard to guidance provided in BS10175:2011+A2:2017 and the LCRM framework. The assessment of risk from land contamination also pays due regard to the definition of contaminated land, as defined within Part 2A of the Environment Protection Act 1990. This legislation defines contaminated land as any land that is in such a condition that by reason of substances in, on or under the land:

- Significant harm is being caused or there is a significant possibility of such harm being caused; or



- Pollution of controlled water is being, or is likely to be, caused.

3.2.2 This definition is based on the principles of risk assessment defined as a combination of the probability (or frequency) of occurrence of a defined hazard and the magnitude (including the seriousness) of the consequences. Central to the risk assessment process is the concept of contaminant linkage, which is a linkage between a contaminant and a receptor by means of a pathway.

Table 3.2. Summary of statutory definitions relating to pollution linkage.

Statutory definitions relating to contaminant linkage.	
Contaminant	"a substance which is in, on or under the land and which has the potential to cause harm or to cause pollution of controlled waters."
Receptor	"a living organism, a group of living organisms, and ecological system or a piece of property" which meets given criteria. "controlled waters which are, or could be, polluted by a contaminant".
Pathway	"one or more routes or means by, or through, which a receptor: <ul style="list-style-type: none"> • is being exposed to, or affected by, a contaminant, or • could be so exposed or affected."

3.2.3 Without the presence of all three components, there is no linkage and therefore no risk. The relationship between these components is discussed below in order to identify the existence of any source-pathway-receptor linkage on the site, and hence the potential risks associated with any contamination.

Table 3.3: Identified Sources, Pathways and Receptors

Source – Pathway – Receptor Overview	
Contaminant sources	<i>Natural geology</i>
	<i>Contemporary Trade</i>
	<i>Discharge Consents</i>
Pathways	<i>Inhalation of dust and vapours</i>
	<i>Dermal contact</i>
	<i>Ingestion</i>
	<i>Ingress into buildings</i>
	<i>Ground and surface waters</i>



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	<i>Future site users</i>
Receptors	<i>Site workers</i>
	<i>Flora & Fauna</i>

3.2.4 From this table, the Conceptual Site Model can be derived. It outlines the critical pollutant linkages of concern for a particular land contamination problem. The development of the CSM is a primary planning tool that is used to organise information about the site and support the decision-making process in managing potentially contaminated sites. The matrix below makes up the initial CSM based on the data and information collated during the desk study and site walkover.



3.3 Preliminary Conceptual Site Model Matrix

Table 3.4: Preliminary Conceptual Model Matrix

Preliminary Conceptual Model							
Source(s)	Contaminant(s)	Pathway(s)	Receptor(s)	Probability	Consequence	Risk Assessment	
On Site		Radon gas	Ingress into proposed buildings	Future site users	High Likelihood	Medium	High Risk – The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).
	Natural Geology	Arsenic	Dermal contact Soil and dust ingestion and inhalation	Future site users Site workers Site flora and fauna	Unlikely	Medium	Low Risk – Naturally occurring levels of arsenic within the soil on site are estimated to be 45 - 60 mg/kg. Published literature (R.S. Middleton <i>et al</i> , 2017) suggest an average bioavailability of 19% for arsenic in Cornwall, therefore estimated naturally occurring arsenic levels are highly likely to be within guideline value of 37 mg/kg.
Off Site	Contemporary Trade Directory Entries & Points Of Interest	Metals Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH) Sulphates	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Unlikely	Medium	Low Risk – A single contemporary trade record is noted within 500m of the site; an inactive Lawnmowers and Garden Machinery - Sales and Serving shop, situated 69m W. Due to the local topography, distance from the site, and scarcity of contemporary trade in the area, contamination pathways are considered unlikely.



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Discharge Consent Licence	Leachates Pathogens	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Unlikely	Medium	Low Risk – An active discharge consent licence for the discharge of treated effluent via a land soakaway is recorded 116m SW. Due to the local topography and distance from the site, contamination pathways are considered unlikely.
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4 GEOTECHNICAL RISK ASSESSMENT

4.1 Introduction

4.1.1 This risk assessment has been undertaken with due regard to the advice relating to ground instability as provided in the Department of the Environment (Welsh Offices) Planning Policy Guidance (no. 14) for "Development on Unstable Land". The guidance discusses the causes of Unstable Land and defines them as falling into one of three categories:

- i. The effects of underground cavities; these may be of natural origin or due to mining or to civil engineering works.
- ii. Unstable slopes; these may be natural, in both coastal and inland situations; or man-made, whether excavated, as in quarries or cuttings, or constructed, as in tips and embankments.
- iii. Ground compression; this may be of natural origin due to peat, alluvial, estuarine or marine soils; or due to human activities, e.g. made ground, landfill or restored opencast mines; and ground subject to movement due to shrinking and swelling clays.

4.1.2 While in all cases instability may arise whether or not there is any development on the surface, it is important to recognise that the development itself or the intensification of development may be the triggering factor, which initiates instability problems.

4.1.3 The risks posed by each type of unstable ground are discussed based upon the proposed redevelopment of the site for dwellings. Table 5 below outlines the key findings.

Table 4.1: Overview of the risks posed by unstable ground

Underground Cavities
No recorded underground cavities are noted within 1000m of the proposed development.
Unstable Slopes
The site is gently sloping; the risk from unstable slopes is low.
British Geological Survey Data
Information relating to potential ground instability issues at this site has been collected from the BGS digital and hard-copy mapping. Below is the summarised information.



Natural Hazard Findings	
Hazard	Risk Classification
Shrink – Swell Clays	Very Low - Ground conditions predominantly low-plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
Landslides	Low - Possibility of slope instability problems after major changes in ground conditions. Ask about implication for stability if large changes to drainage or excavations take place near to buildings. Consider possibility of trench side or slope movement during excavations, or consequence of changes to drainage. Possible increase in construction cost to remove possibility of potential slope stability problems.
Soluble Rocks	Negligible - Soluble rocks are either not thought to be present, or are not prone to dissolution. Dissolution features are unlikely to be present. No actions required to avoid problems due to soluble rocks. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with soluble rocks.
Compressible Deposits	Negligible - No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
Collapsible Deposits	Very Low - Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
Running Sand	Very Low - No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

4.2 Groundwater

- 4.2.1 It is unlikely that groundwater will be shallow in this area. It is anticipated that groundwater will flow to the north.



5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Anticipated Ground Conditions

- 5.1.1 The anticipated ground conditions are based on the geological information available at the time of writing this report, as well as an evaluation of existing structures on site and their potential associated Made Ground.
- 5.1.2 It is anticipated that the site is underlain by up to 0.50m of TOPSOIL across the majority of the site with hard standing or gravel present around the existing structures.
- 5.1.3 It is also considered likely that material described as MADE GROUND will be present around and beneath the existing structures. This material may be granular or cohesive and will likely contain anthropogenic components of brick and concrete.
- 5.1.4 Any TOPSOIL, Hardstanding and/or MADE GROUND will be underlain by clayey sandy GRAVEL belonging to the Bovisand Formation.

5.2 Geotechnical Considerations

- 5.2.1 Any Made Ground encountered on site will not suffice as a suitable bearing, therefore shallow foundations should be placed in the underlying natural material.
- 5.2.2 Conventional strip foundations may be viable at this site; however a site investigation would be required to confirm this. It would also be considered prudent to carry out soakaway testing in accordance with BRE 365 to assess the sites suitability for conventional drainage.

5.3 Conclusions

- 5.3.1 The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level).
- 5.3.2 Naturally occurring levels of arsenic within the soil on site are estimated to be 45 - 60 mg/kg. Published literature (R.S. Middleton et al, 2017) suggest an average bioavailability of 19% for arsenic in Cornwall, therefore estimated naturally occurring arsenic levels are highly likely to be within guideline value of 37 mg/kg.
- 5.3.3 A single contemporary trade record is noted within 500m of the site; an inactive Lawnmowers and Garden Machinery - Sales and Serving shop, situated 69m W. Due to the local topography, distance from the site, and scarcity of contemporary trade in the area, contamination pathways are considered unlikely.
- 5.3.4 An active discharge consent licence for the discharge of treated effluent via a land soakaway is recorded 116m SW. Due to the local topography and distance from the site, contamination pathways are considered unlikely.
- 5.3.5 In the absence of a significant source of contamination, it can be concluded that this site is suitable for its intended future use and that no further investigation will be required.



5.4 Recommendations

- 5.4.1 Full radon protective measures are required for the proposed development in-line with BRE guidelines.
- 5.4.2 In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.
- 5.4.3 All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.
- 5.4.4 Waste material to be removed from site should be handled by a suitably licensed waste contractor.



6 REFERENCES

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- 6.1.13 Great Britain. The Water Framework Directive (Standards and Classification) Directions (England and Wales) (2015). London, The Stationery Office
- 6.1.14 Land Quality Press (2015) *The LQM/CIEH Suitable 4 Use Levels for Human Health Risk Assessment* (2nd Edition). Nottingham, Land Quality Press
- 6.1.15 National House Building Council (NHBC), Environment Agency and Chartered Institute of Environmental Health (CIEH) (2008) *Research & Development Publication 66: Guidance for the Safe Development of Housing on Land Affected by Contamination*. Amersham, NHBC
- 6.1.16 Royal Institution of Chartered Surveyors (RICS) (2012) *Japanese Knotweed and Residential Property*. Coventry, RICS



7 NOTES

- *This report is concerned solely with the property, as defined by this report, or parts thereof examined.*
- *The report should not be used in connection with adjacent properties.*
- *The information in the Groundsure EnviroInsight and GeoInsight reports, which have been used in compiling this Phase 1 Desk Study report, is derived from a number of statutory and non-statutory sources. While every effort is made by the supplier to ensure accuracy, the supplier cannot guarantee the accuracy or completeness of such information or data, nor to identify all the factors that may be relevant.*
- *The conclusions and recommendations relate to the type and extent of development outlined in this report for this specific property only and should not be taken as suitable for any other form or extent of development on this property without further consultation with Wheal Jane Consultancy.*
- *This report is confidential to the client, the client's legal and professional advisors, and may not be reproduced or distributed without our permission other than to directly facilitate the sale or development of the property concerned.*
- *We have no liability toward any person not party to commissioning this report.*
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- *This report is not an asbestos inspection that may fall within the control of Control of Asbestos Regulations 2006.*



FIGURES:



Title: **Site Location Plan**

Project: **Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB**

Client: **Andrea and Marcus Bawden**

Report Title: **Phase 1 Preliminary Risk Assessment**

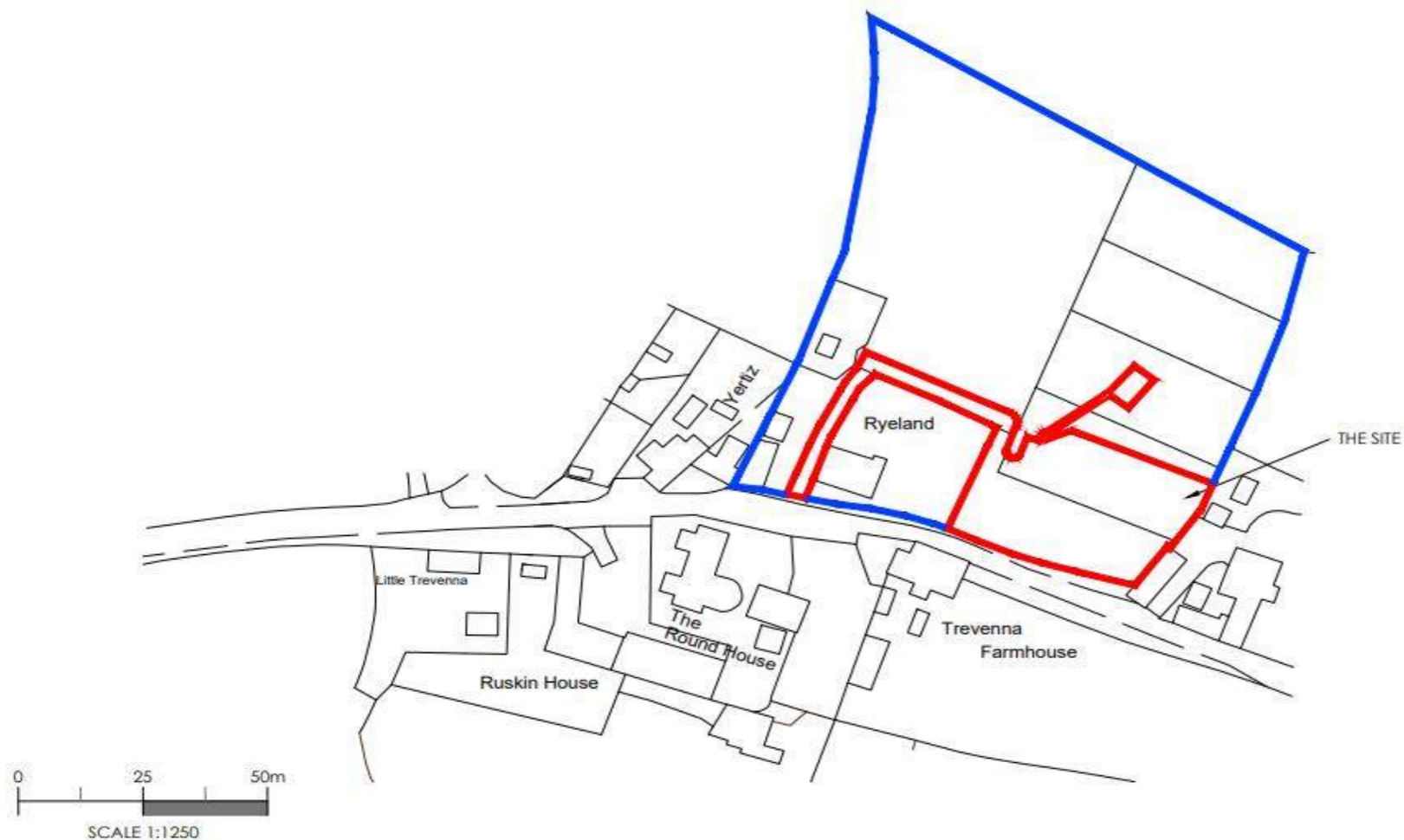
Date: **23/01/2024**

Ref: **22016**

Figure: **2.1**



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LOCATION
RYELAND
 St Mawgan, TR8 4HB
CLIENT
BAWDEN
 DATE 13.09.2023

DRAWING TITLE
LOCATION PLAN
AS EXISTING
PROJECT DESCRIPTION
2NO. NEW DWELLINGS
 DWG NO. 020 REV. A

STAGE
Planning
 SCALE 1:1250 @A4
 DRAWN HM



Legend:

WHEEL JANE CONSULTANCY



Title:

Current Site Layout

Project:

Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB
22016

Client:

Andrea and Marcus Bawden

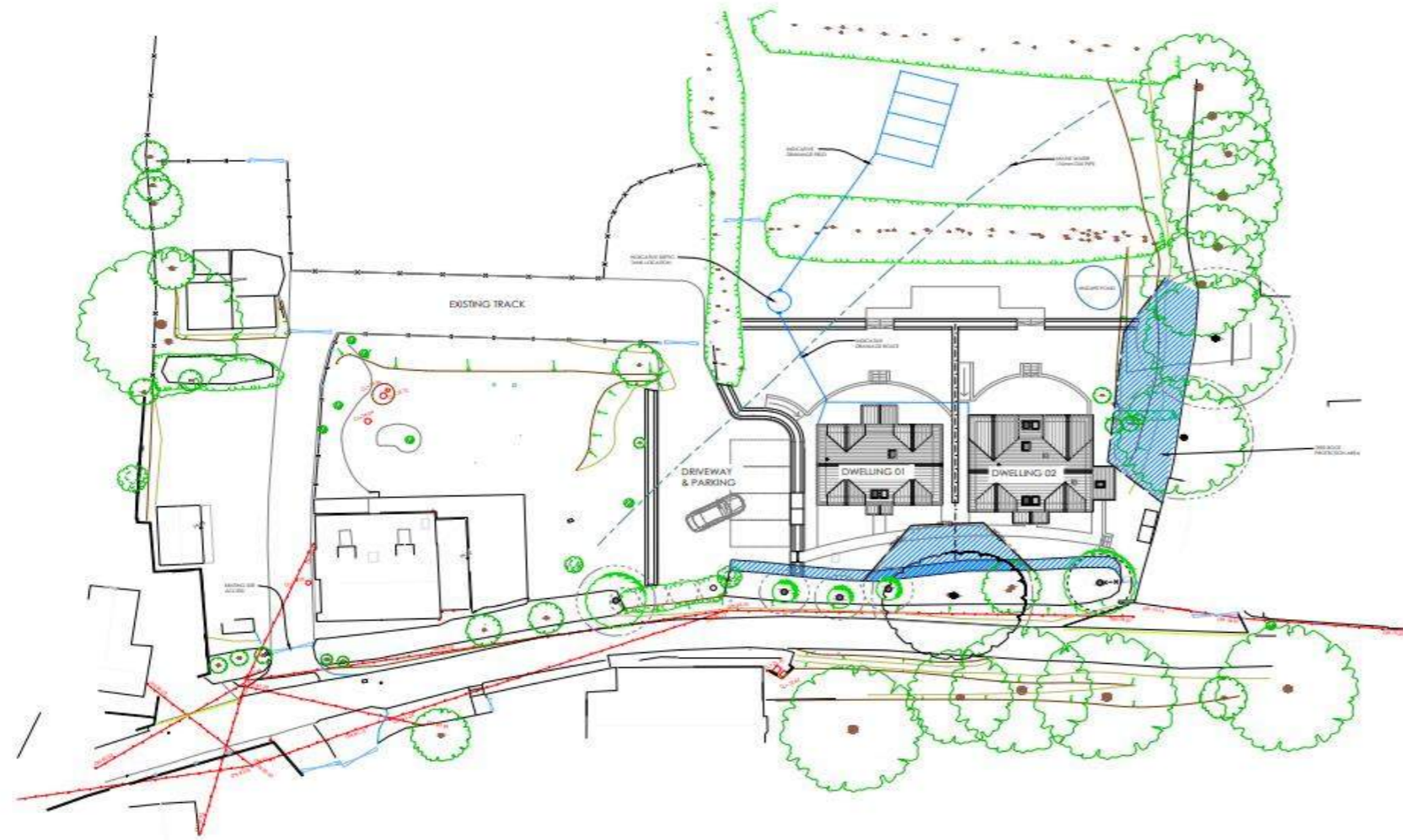
Date: 23/01/2024

Scale: NTS

Drawn by: MV

Revision: A

Figure: 2.2



SITE PLAN 1:200

- NOTES
- 1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN METERS.
 - 2. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 3. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 4. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 5. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 6. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 7. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 8. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 9. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.
 - 10. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.



KEY
 TREE ROOT PROTECTION AREA

NO.	DATE	REVISION SUMMARY
1		
2		

CLIENT:
BAWDEN
 17 YELAND
 TREVENNA CROSS,
 ST. MAWGAN, TR8 4HB

DRAWING TITLE:
 PROPOSED
 SITE LAYOUT PLAN
 NEW DWELLINGS

SCALE:
 DATE: JUNE 2023 DRAWN BY: HM

DRAWING NO.: 11 REV: B

ark
 ARCHITECTURE & PLANNING



Legend:



Title:

Proposed Site Layout

Project:

**Site at Ryeland, Trevenna Cross, St
 Mawgan, TR8 4HB
 22016**

Client:

Andrea and Marcus Bawden

Date: 23/01/2024

Scale: NTS

Drawn by: MV

Revision: A

Figure: 2.3



APPENDICES:

- A. *Site Photographs*
- B. *Environmental Data*
- C. *Historical Maps*
- D. *UXO Risk Map*



APPENDIX A

Site Photographs



Title: Phase 1 Walkover Photographs
Project: Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB
Client: Andrea and Marcus Bawden
Report Title: Phase 1 Preliminary Risk Assessment
Date: 12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title: Phase 1 Walkover Photographs
Project: Site at Ryeland, Trevenna Cross, St Mawgan, TR8 4HB
Client: Andrea and Marcus Bawden
Report Title: Phase 1 Preliminary Risk Assessment
Date: 12/01/24

Ref: 22016



Appendix: A



Title:	Phase 1 Walkover Photographs
Project:	Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client:	Andrea and Marcus Bawden
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	12/01/24

Ref: 22016



Appendix: A



Title: Phase 1 Walkover Photographs
Project: Site at Ryeland, Trevena Cross, St Mawgan, TR8 4HB
Client: Andrea and Marcus Bawden
Report Title: Phase 1 Preliminary Risk Assessment
Date: 12/01/24

Ref: 22016



Appendix: A



APPENDIX B

Environmental Data

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

330593820_1_1

Customer Reference:

22016

National Grid Reference:

188190, 65930

Slice:

A

Site Area (Ha):

0.15

Search Buffer (m):

1000

Site Details:

Ryeland, Trevena Cross

St. Mawgan

NEWQUAY

TR8 4HB

Client Details:

Ms B Halliday

Wheal Jane Consultancy

Old Mine

Wheal Jane Mine

Baldhu

Truro

Cornwall

TR3 6EE

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	17
Hazardous Substances	-
Geological	18
Industrial Land Use	22
Sensitive Land Use	23
Data Currency	24
Data Suppliers	30
Useful Contacts	31

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1		9
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 4				4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4				2
River Quality Biology Sampling Points	pg 5				1
River Quality Chemistry Sampling Points	pg 6				1
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				1 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 8	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	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	pg 8		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 8		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 9		7	3	59

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 17				3
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 19				4
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 20	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 20		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 21	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 21	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22		1		1
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 22				2
Points of Interest - Public Infrastructure	pg 22				2
Points of Interest - Recreational and Environmental	pg 22				2
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 23				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	170	1	188350 66050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	202	1	188200 66150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	267	1	188500 65927
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	305	1	188100 66250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	354	1	188100 66300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	367	1	188600 65927
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	368	1	188600 65900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	385	1	188000 66300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	418	1	188650 65900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	473	1	188700 65850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	477	1	188000 66400
1	Discharge Consents Operator: Chough Construction (St Mawgan) Property Type: Wooden Containers Location: Trevenna, St Mawgan, NEWQUAY, Cornwall, TR8 4HB Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: NRA-SW-5746/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 22nd June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Treated Effluent Discharge Environment: Land/Soakaway Receiving Water: Licence Status: Lapsed, Revoked Or Cancelled Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (W)	116	2	188040 65880
2	Discharge Consents Operator: Ocean Services (Sw) Limited Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 1 & 2 Council Houses Five Lanes, St Mawgan, Newquay, Cornwall, Tr8 4ex Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: Npswqd002206 Permit Version: 1 Effective Date: 6th June 2008 Issued Date: 6th June 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	596	2	187640 66238

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Cornwall Airport Limited Property Type: PRISONS/MOD SITES/PUBLIC ADMIN+DEFENCE+COMP SOCIAL SEC Location: Raf St Mawgan (Interceptor 3), Newquay, Cornwall, Tr8 4hp Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 302548 Permit Version: 1 Effective Date: 25th October 2002 Issued Date: 25th October 2002 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of River Menalhyl Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	800	2	187670 65280
4	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Sewage Pumping Station, St Mawgan, Cornwall Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 15/49/272/P/35 Permit Version: 1 Effective Date: 14th December 1973 Issued Date: 14th December 1973 Revocation Date: 1st October 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	852	2	187300 66000
4	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Pscso/Eo, St Mawgan, Newquay, Cornwall, Tr8 4er Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 301611 Permit Version: 3 Effective Date: 22nd April 2016 Issued Date: 22nd April 2016 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	902	2	187250 66000
4	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Pscso/Eo, St Mawgan, Newquay, Cornwall, Tr8 4er Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 301611 Permit Version: 3 Effective Date: 22nd April 2016 Issued Date: 22nd April 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	902	2	187250 66000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Pscso/Eo, St Mawgan, Newquay, Cornwall, Tr8 4er Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 301611 Permit Version: 2 Effective Date: 19th December 2013 Issued Date: 19th December 2013 Revocation Date: 21st April 2016 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	905	2	187247 66002
5	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Pscso/Eo, St Mawgan, Newquay, Cornwall, Tr8 4er Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 301611 Permit Version: 2 Effective Date: 19th December 2013 Issued Date: 19th December 2013 Revocation Date: 21st April 2016 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	905	2	187247 66002
5	<p>Discharge Consents</p> <p>Operator: South West Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: St Mawgan Pscso/Eo, St Mawgan, Newquay, Cornwall, Tr8 4er Authority: Environment Agency, South West Region Catchment Area: Tidal Camel & Menalhyl, Cornwall Reference: 301611 Permit Version: 1 Effective Date: 1st October 2000 Issued Date: 1st October 2000 Revocation Date: 18th December 2013 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Menalhyl (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	905	2	187247 66003
6	<p>Discharge Consents</p> <p>Operator: Ms Susan Medder Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: The Forge Denzell Mill, St Mawgan, Newquay, Cornwall, Tr8 4hd Authority: Environment Agency, South West Region Catchment Area: Not Supplied Reference: Epreb3991nq Permit Version: 1 Effective Date: 27th October 2016 Issued Date: 27th October 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via Infil System Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	936	2	188887 66599
	<p>Nearest Surface Water Feature</p>	A13NE (E)	66	-	188287 65960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Inadequate Design/Capacity Incident Date: 7th December 1992 Incident Reference: 62005409 Catchment Area: Tidal Camel & Menalhyl, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SE (NE)	622	2	188500 66500
8	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage (Non-PLC): Pumping Station Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Crude Sewage Note: Natural Causes Incident Date: 5th August 1992 Incident Reference: 62005088 Catchment Area: Tidal Camel & Menalhyl, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	902	2	187250 66000
8	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Other Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Other Note: Accidental Spillage/Leakage Incident Date: 4th November 1992 Incident Reference: 62005221 Catchment Area: Tidal Camel & Menalhyl, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Collapse Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	952	2	187200 66000
9	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Public Highway Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Rubble/Litter Or Solids Note: Manmade Breach/Hole Incident Date: 12th April 1995 Incident Reference: 62009431 Catchment Area: Tidal Camel & Menalhyl, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Deliberate Action Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	956	2	187200 65800
	<p>River Quality</p> <p>Name: Menalhyl GQA Grade: River Quality A Reach: Below St. Columb Stw-St. Mawgan Bridge Estimated Distance (km): 4 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000</p>	A7NE (SW)	595	2	187686 65546
	<p>River Quality</p> <p>Name: Menalhyl GQA Grade: River Quality A Reach: St. Mawgan Bridge-Mawgan Porth Bridge Estimated Distance (km): 2.8 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000</p>	A12NW (W)	745	2	187406 65984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	River Quality Biology Sampling Points Name: Menalhyl Reach: St. Mawgan Bridge To Mawgan Porth Bridge Estimated Distance: 2.80 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A12NW (W)	892	2	187260 66000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>River Quality Chemistry Sampling Points</p> <p>Name: Menalhyl Reach: Below St. Columb Sewage Treatment Works To St. Mawgan Bridge Estimated Distance: 4.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied</p>	A12NW (W)	882	2	187271 66004
11	<p>Water Abstractions</p> <p>Operator: Mr W R Brewer Licence Number: 15/49/272/G/011 Permit Version: 100 Location: Higher Lanvean Farm, St Mawgan - Well Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Higher Lanvean Farm, St Mawgan, Newquay Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18SW (N)	669	2	188000 66600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: C & J P Richardson Licence Number: 1549272G090 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Borehole Daily Rate (m3): 9.60 Yearly Rate (m3): 82.00 Details: Not To Exceed 15 Cubic Metres Per Day 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>	A25SW (NE)	1607	2	189450 66975
	<p>Water Abstractions</p> <p>Operator: Messrs C & J Richardson Licence Number: 15/49/272/G/090 Permit Version: 100 Location: Higher Denzell Farm - Borehole Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Higher Denzell Farm, Mawgan-In-Pydar Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A25SW (NE)	1610	2	189450 66980
	<p>Water Abstractions</p> <p>Operator: Mr K Old Licence Number: 15/49/272/G/002 Permit Version: 100 Location: High Barn, St Mawgan - Well Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: High Barn, St Mawgan, Newquay Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1701	2	186500 65500
	<p>Water Abstractions</p> <p>Operator: R Gregor & Sons Licence Number: 15/49/272/G/082 Permit Version: 100 Location: Trevilledor Farm, St. Ervan - Well Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Trevilledor Farm, St. Ervan Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th November 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(NE)	1920	2	189000 67700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge: No Data	A13NE (NE)	0	3	188191 65927
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (NE)	0	3	188191 65927
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	161	2	188290 66090
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	163	2	188285 66095
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	166	2	188315 66080
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	169	2	188275 66105
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	172	2	188270 66110
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	195	2	188245 66140
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	166	2	188315 66080
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	169	2	188275 66105
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	172	2	188270 66110
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	249	2	188270 66190
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (NE)	227	4	188319 66149
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 796.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (NE)	230	4	188374 66113
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (NE)	231	4	188343 66140
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (N)	231	4	188259 66174
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (NE)	238	4	188347 66144
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 368.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (NE)	238	4	188347 66144
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (N)	249	4	188260 66192
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A13NE (N)	288	4	188218 66236
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (N)	288	4	188218 66236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 758.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A13NE (N)	294	4	188219 66241
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SW (NE)	556	4	188587 66360
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SW (NE)	577	4	188615 66362
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SW (NE)	612	4	188655 66373
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SW (NE)	612	4	188655 66373
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 474.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A7NE (SW)	621	4	187664 65532
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1006.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A7NE (SW)	625	4	187705 65480
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 437.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8NW (S)	698	4	187945 65253
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8NW (S)	698	4	187945 65253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	704	4	187945 65247
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	720	4	187436 66024
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12SW (W)	721	4	187428 65900
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	736	4	188967 65871
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 228.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SE (S)	737	4	188344 65174
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SE (S)	738	4	188341 65172
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	754	4	188987 65909
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	754	4	188987 65909
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	756	4	188044 65165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	757	4	187392 65937
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	758	4	188970 65748
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	758	4	188971 65749
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	769	4	188980 65739
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A14SE (E)	769	4	188980 65739
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 189.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A8SE (S)	774	4	188404 65149
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 736.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SE (S)	776	4	188381 65141
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	785	4	188029 65138
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	790	4	188028 65134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	790	4	187361 65981
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A8SW (S)	793	4	188026 65130
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	793	4	188026 65130
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A9SW (SE)	793	4	188597 65204
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	802	4	187729 66625
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 544.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A14SE (E)	806	4	189012 65718
54	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: Gannel Porth and Menalhyl Primacy: 2	A14SE (E)	806	4	189012 65718
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	817	4	187340 66038
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A9SW (SE)	844	4	188555 65127

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	847	4	187670 66640
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	847	4	187670 66640
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 392.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SE (NE)	851	4	188871 66489
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 556.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	851	4	187666 66642
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 560.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	851	4	187666 66642
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19SE (NE)	851	4	188871 66489
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	855	4	187692 66664
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 985.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	860	4	187289 65935
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	860	4	187289 65935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 419.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12SW (W)	868	4	187281 65910
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A9SW (SE)	878	4	188587 65104
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A9SW (SE)	878	4	188587 65104
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A9SW (SE)	879	4	188586 65102
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	885	4	187992 65044
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 334.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A12NW (W)	887	4	187271 66051
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A9SW (SE)	888	4	188580 65090
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Menalhyl Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A9SW (SE)	905	4	188621 65091
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A9SW (SE)	905	4	188621 65091

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A17NE (NW)	912	4	187784 66781
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 379.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 2	A9SW (SE)	923	4	188617 65068
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19NW (NE)	941	4	188850 66641
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	992	4	187982 64936
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A8SW (S)	992	4	187982 64936
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Gannel Porth and Menalhyl Primacy: 1	A19NE (NE)	993	4	188881 66684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Restormel Borough Council - Has no landfill data to supply		0	5	188191 65927
	Local Authority Landfill Coverage Name: Cornwall County Council - Had landfill data but passed it to the relevant environment agency		0	6	188191 65927
81	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A7NE (SW)	716	-	187776 65310
82	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A12SW (W)	778	-	187401 65706
83	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A8SW (S)	974	-	188016 64947

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Devonian Rocks (Undifferentiated)	A13NE (NE)	0	1	188191 65927
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 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	A13NE (NE)	0	1	188191 65927
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 60 - 120 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (N)	49	1	188191 66000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 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	A13NE (NE)	187	1	188312 66107
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 60 - 120 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	245	1	188360 66145
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 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	A14NW (E)	321	1	188544 66000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 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	A7NE (SW)	699	1	187658 65420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 60 - 120 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14SE (E)	768	1	189000 65889
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 35 - 45 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14SE (E)	784	1	189000 65762
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 60 - 120 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14SE (E)	810	1	189000 65663
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A8SE (S)	944	1	188500 65000
84	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Carloggas</p> <p>Location: St Mawgan, Newquay, Cornwall</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 83707</p> <p>Type: Opencast</p> <p>Status: Ceased</p> <p>Operator: Unknown Operator</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Devonian</p> <p>Geology: Dartmouth Group</p> <p>Commodity: Slate</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	722	1	187769 65307
85	<p>BGS Recorded Mineral Sites</p> <p>Site Name: St Mawgan</p> <p>Location: St Mawgan, Newquay, Cornwall</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 83735</p> <p>Type: Opencast</p> <p>Status: Ceased</p> <p>Operator: Unknown Operator</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Devonian</p> <p>Geology: Meadfoot Group</p> <p>Commodity: Slate</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	789	1	187388 65712

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	BGS Recorded Mineral Sites Site Name: New Farm Location: St Mawgan, Newquay, Cornwall Source: British Geological Survey, National Geoscience Information Service Reference: 83727 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: Staddon Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	968	1	187925 66890
87	BGS Recorded Mineral Sites Site Name: Camanton Location: St Mawgan, Newquay, Cornwall Source: British Geological Survey, National Geoscience Information Service Reference: 83708 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: Dartmouth Group Commodity: Slate Positional Accuracy: Located by supplier to within 10m	A8SW (S)	986	1	187997 64939
	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	A13NE (NE)	0	1	188191 65927
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	188191 65927
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	161	1	188272 66098
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	188191 65927
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	161	1	188272 66098
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	188191 65927
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	188191 65927
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	161	1	188272 66098
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	182	1	188229 66129
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	188191 65927
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	161	1	188272 66098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Potential for Shrinking or Swelling Clay Ground Stability Hazards</p> <p>Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (NE)	0	1	188191 65927
	<p>Radon Potential - Radon Affected Areas</p> <p>Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (NE)	0	1	188191 65927
	<p>Radon Potential - Radon Protection Measures</p> <p>Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (NE)	0	1	188191 65927

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Cutting Edge Garden Machinery Services Location: Trevenna Yard, Trevenna Cross, St. Mawgan, Newquay, Cornwall, TR8 4HB Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SW (W)	69	-	188082 65904
89	<p>Contemporary Trade Directory Entries</p> <p>Name: Michell Location: St. Mawgan, Newquay, Cornwall, TR8 4EW Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A12SW (W)	889	-	187276 65748
90	<p>Points of Interest - Manufacturing and Production</p> <p>Name: D W Barker Location: Higher Lanvean Farm, St. Mawgan, Newquay, TR8 4HE Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location</p>	A18NW (N)	829	7	187958 66755
91	<p>Points of Interest - Manufacturing and Production</p> <p>Name: P Lobb Location: (Lobb) Trembleath Farm, St. Columb, TR9 6DP Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location</p>	A9NE (SE)	960	7	188931 65259
92	<p>Points of Interest - Public Infrastructure</p> <p>Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location</p>	A12SW (W)	956	7	187196 65835
92	<p>Points of Interest - Public Infrastructure</p> <p>Name: Burial Ground Location: TR8 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location</p>	A12SW (W)	961	7	187191 65838
93	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A12NW (W)	813	7	187336 65931
93	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Play Area Location: TR8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A12NW (W)	823	7	187326 65930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	Ancient Woodland Name: Not Supplied Reference: 1417732 Area(m ²): 195596.91 Type: Ancient and Semi-Natural Woodland	A8SE (S)	768	8	188280 65134

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Carrick District Council (now part of Cornwall Council) - Environmental Health Department North Cornwall District Council (now part of Cornwall Council) - Environmental Health Department Environment Agency - Head Office Cornwall Council - Environmental Health Department Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department	April 2009 August 2009 November 2023 October 2017 September 2008	 Annually Annually Not Applicable
Discharge Consents Environment Agency - South West Region	October 2023	Quarterly
Enforcement and Prohibition Notices Environment Agency - South West Region	March 2013	
Integrated Pollution Controls Environment Agency - South West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South West Region	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control Fowey Port Health Authority North Cornwall District Council (now part of Cornwall Council) - Environmental Health Department Carrick District Council (now part of Cornwall Council) - Environmental Health Department Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	August 2008 December 2008 July 2008 July 2009 September 2014	Variable Not Applicable Not Applicable Not Applicable Variable
Local Authority Pollution Prevention and Controls Fowey Port Health Authority North Cornwall District Council (now part of Cornwall Council) - Environmental Health Department Carrick District Council (now part of Cornwall Council) - Environmental Health Department Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	August 2008 December 2008 July 2008 July 2009 September 2014	Not Applicable Not Applicable Not Applicable Not Applicable Annually
Local Authority Pollution Prevention and Control Enforcements Fowey Port Health Authority North Cornwall District Council (now part of Cornwall Council) - Environmental Health Department Carrick District Council (now part of Cornwall Council) - Environmental Health Department Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	August 2008 December 2008 July 2008 July 2009 September 2014	Variable Not Applicable Not Applicable Not Applicable Variable
Nearest Surface Water Feature Ordnance Survey	November 2023	
Pollution Incidents to Controlled Waters Environment Agency - South West Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - South West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - South West Region	March 2013	
Registered Radioactive Substances Environment Agency - South West Region Environment Agency - Head Office	June 2016 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	

Agency & Hydrological	Version	Update Cycle
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	October 2023 October 2023	Quarterly Quarterly
Water Abstractions Environment Agency - South West Region	October 2023	Quarterly
Water Industry Act Referrals Environment Agency - South West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified






Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	July 2023	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - South West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	July 2023 July 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	January 2023 January 2023	Quarterly Quarterly
Local Authority Landfill Coverage Carrick District Council (now part of Cornwall Council) - Environmental Health Department Cornwall County Council (now part of Cornwall Council) North Cornwall District Council (now part of Cornwall Council) Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Carrick District Council (now part of Cornwall Council) - Environmental Health Department Cornwall County Council (now part of Cornwall Council) North Cornwall District Council (now part of Cornwall Council) Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department	October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Cornwall County Council (now part of Cornwall Council) North Cornwall District Council (now part of Cornwall Council) - Planning Department Carrick District Council (now part of Cornwall Council) - Development Control Cornwall Council - Planning Department Restormel Borough Council (now part of Cornwall Council)	January 2009 January 2009 May 2009 May 2023 October 2008	Annual Rolling Update Not Applicable Not Applicable Variable Not Applicable
Planning Hazardous Substance Consents Cornwall County Council (now part of Cornwall Council) North Cornwall District Council (now part of Cornwall Council) - Planning Department Carrick District Council (now part of Cornwall Council) - Development Control Cornwall Council - Planning Department Restormel Borough Council (now part of Cornwall Council)	January 2009 January 2009 May 2009 May 2016 October 2008	Annual Rolling Update Not Applicable Not Applicable Variable Not Applicable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

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

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2023	Bi-Annually
Areas of Adopted Green Belt Carrick District Council (now part of Cornwall Council) - Development Control Cornwall Council - Planning Department North Cornwall District Council (now part of Cornwall Council) Restormel Borough Council (now part of Cornwall Council)	August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Carrick District Council (now part of Cornwall Council) - Development Control Cornwall Council - Planning Department North Cornwall District Council (now part of Cornwall Council) Restormel Borough Council (now part of Cornwall Council)	August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	August 2023	Bi-Annually
Marine Nature Reserves Natural England	October 2023	Bi-Annually
National Nature Reserves Natural England	August 2023	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural England	October 2023	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2023	Bi-Annually
Special Areas of Conservation Natural England	October 2023	Bi-Annually
Special Protection Areas Natural England	October 2023	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
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	Restormel Borough Council (now part of Cornwall Council) - Environmental Health Department County Hall, Treyew Road, Truro, Cornwall, TR1 3AY	Telephone: 0300 1234 100 Email: enquiries@cornwall.gov.uk Website: www.cornwall.gov.uk
6	Cornwall County Council (now part of Cornwall Council) County Hall, Treyew Road, Truro, Cornwall, TR1 3AY	Telephone: 0300 1234 100 Email: enquiries@cornwall.gov.uk Website: www.cornwall.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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.



APPENDIX C

Historical Maps

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		Bench Mark
	Site of Antiquities		Well, Spring, Boundary Post		
	Pump, Guide Post, Signal 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		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

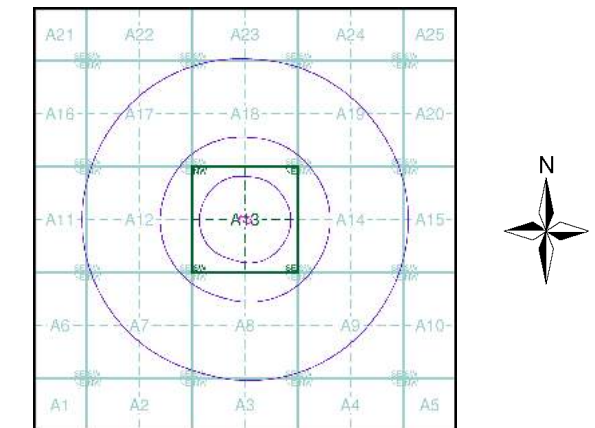
1:10,000 Raster Mapping

	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
Cornwall & Isles Of Scilly	1:10,560	1888	2
Cornwall & Isles Of Scilly	1:10,560	1907 - 1908	3
Ordnance Survey Plan	1:10,000	1962 - 1963	4
Ordnance Survey Plan	1:10,000	1974	5
10K Raster Mapping	1:10,000	2000	6
10K Raster Mapping	1:10,000	2006	7
VectorMap Local	1:10,000	2023	8

Historical Map - Slice A

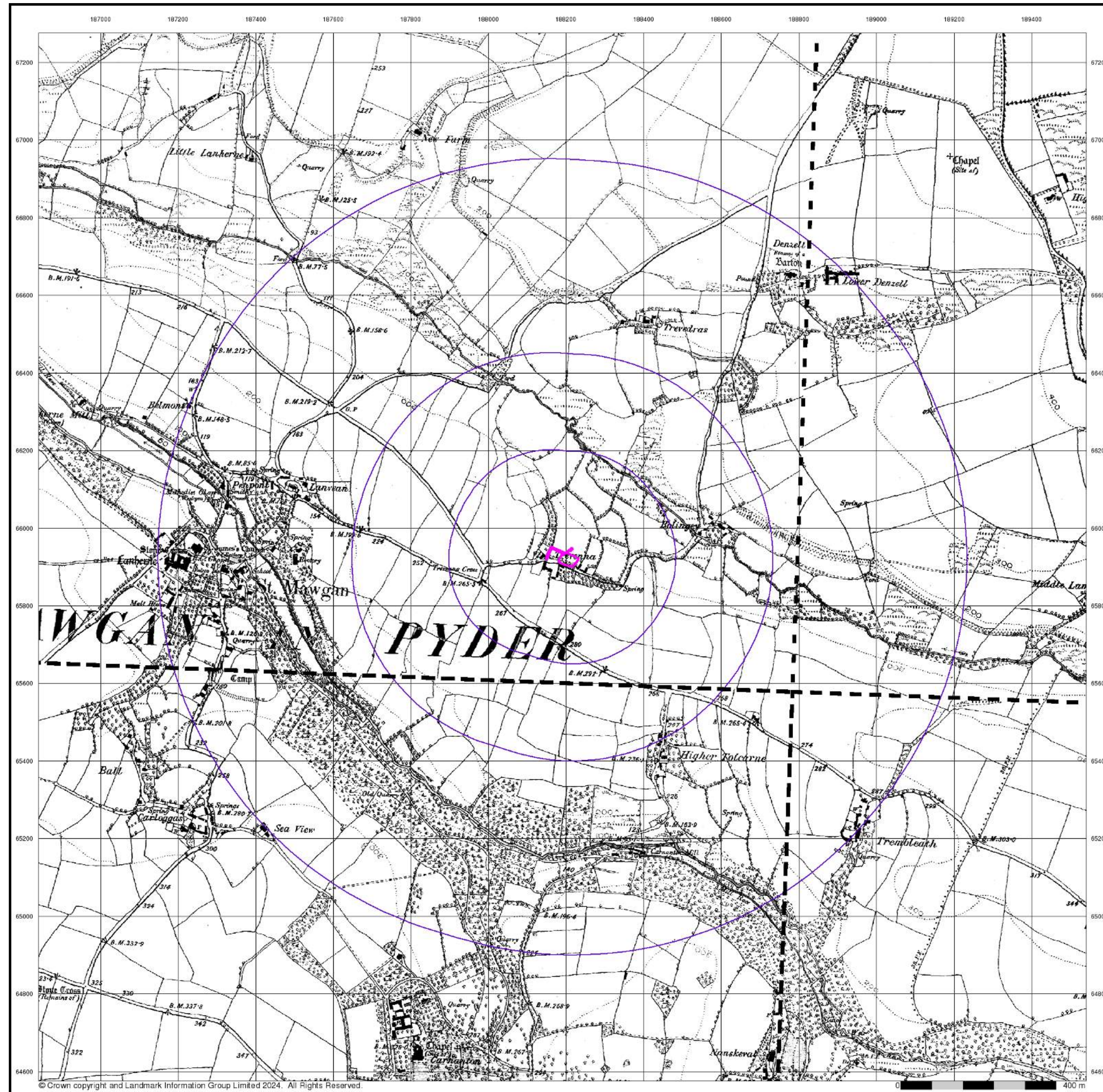


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevena Cross, St. Mawgan, NEWQUAY, TR8 4HB



Cornwall & Isles Of Scilly

Published 1888

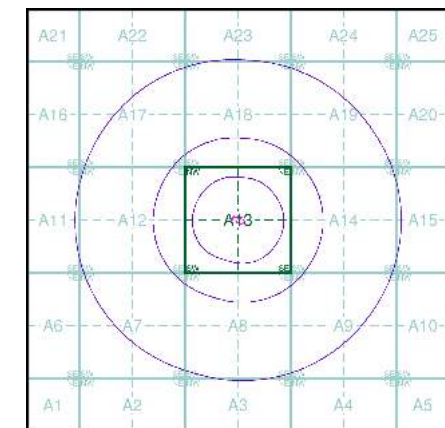
Source map scale - 1:10,560

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)

032NW 1888 1:10,560	032NE 1888 1:10,560
032SW 1888 1:10,560	032SE 1888 1:10,560

Historical Map - Slice A



Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB

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

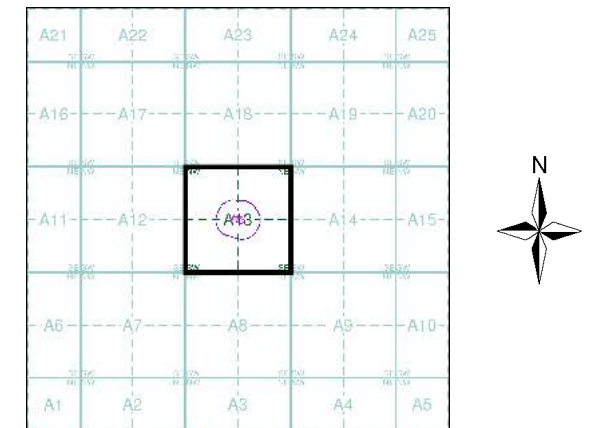
Large-Scale National Grid Data 1:2,500 and 1:1,250

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
Cornwall & Isles Of Scilly	1:2,500	1881	2
Cornwall & Isles Of Scilly	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1972	4
Additional SIMs	1:2,500	1983	5
Additional SIMs	1:2,500	1993	6
Large-Scale National Grid Data	1:2,500	1995	7
Historical Aerial Photography	1:2,500	2001	8

Historical Map - Segment A13



Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 100

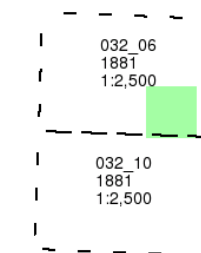
Site Details

Ryeland, Trevena Cross, St. Mawgan, NEWQUAY, TR8 4HB

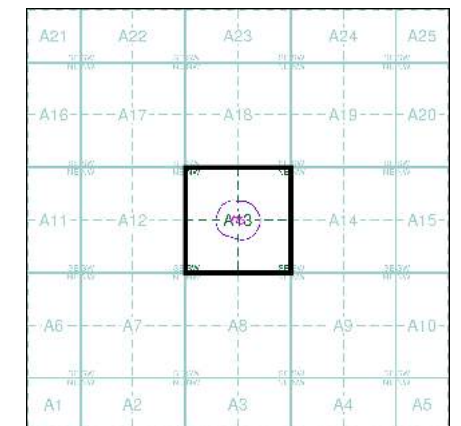
Cornwall & Isles Of Scilly
Published 1881
Source map scale - 1:2,500

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

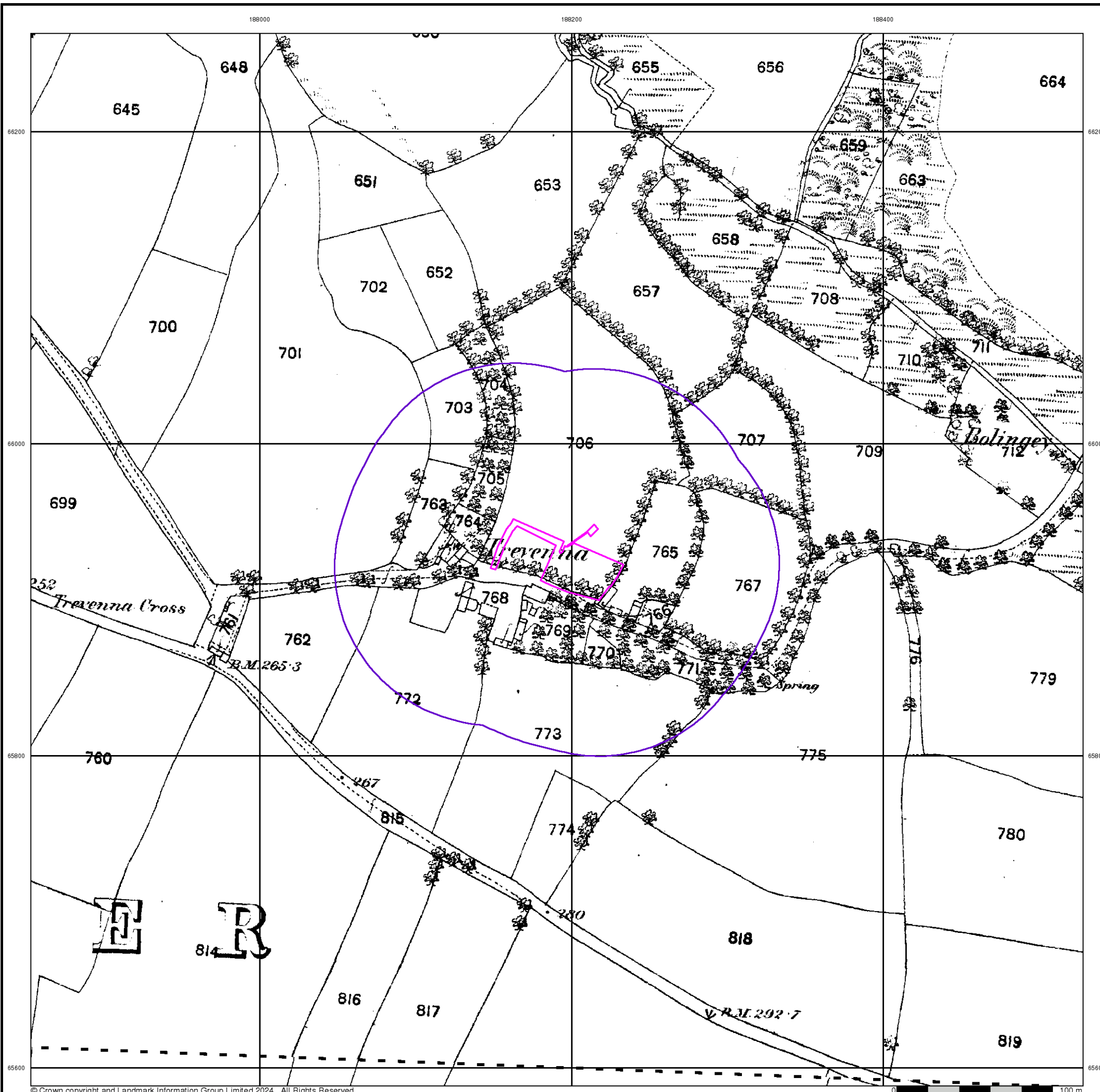


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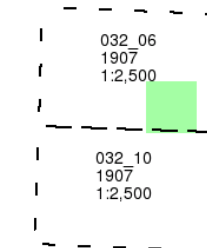
Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



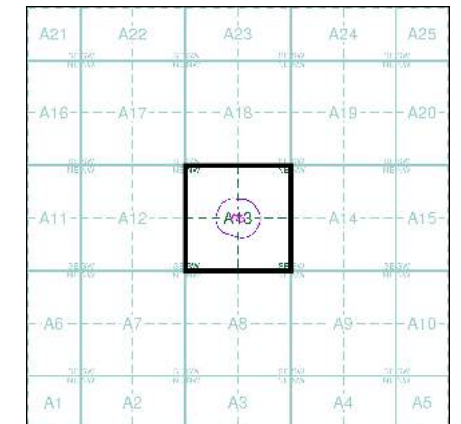
Cornwall & Isles Of Scilly
Published 1907
Source map scale - 1:2,500

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

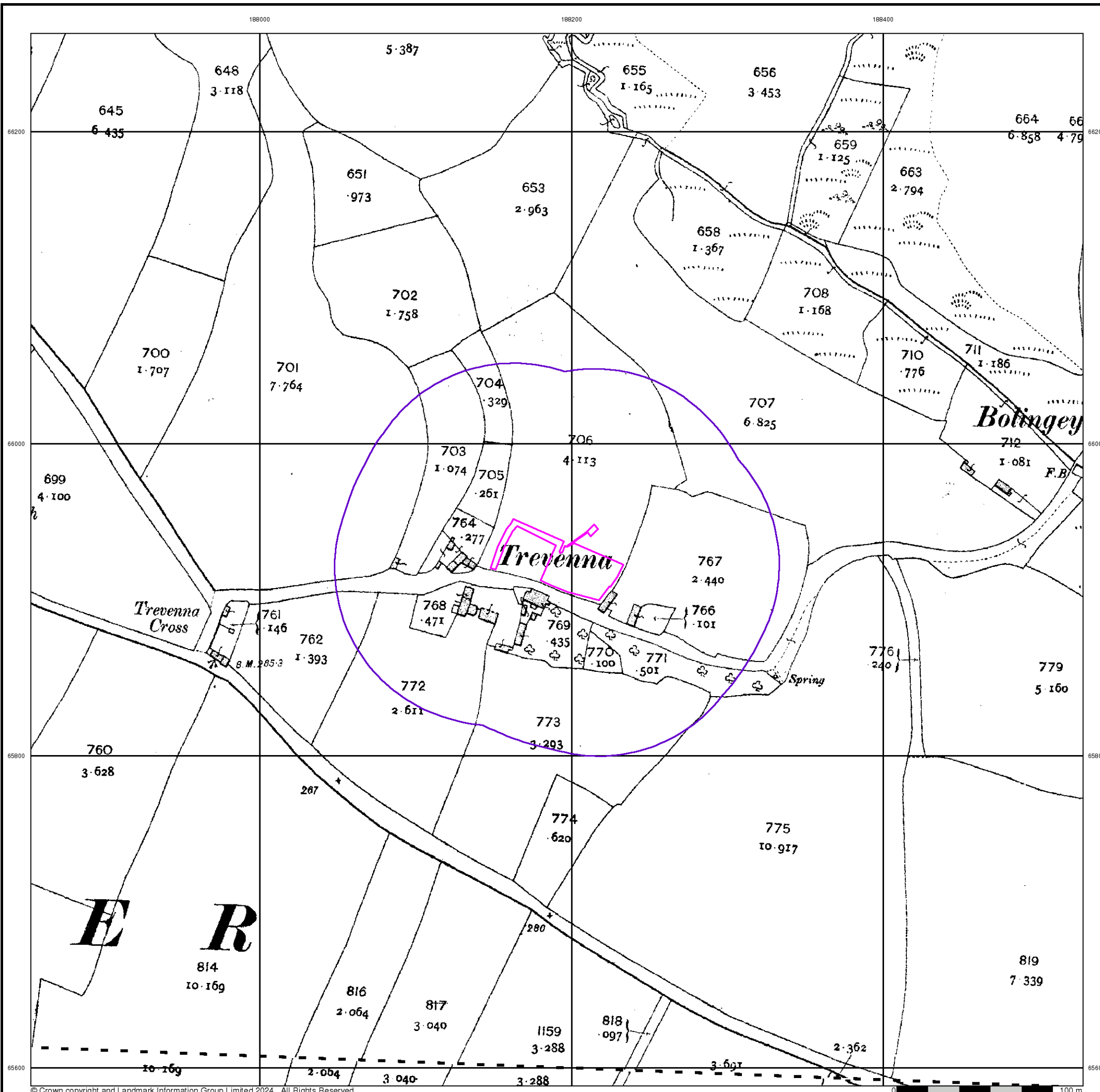


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 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



Ordnance Survey Plan

Published 1972

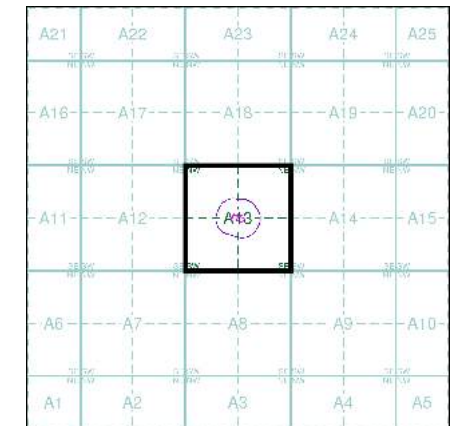
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SW8766 1972 12,500	SW8866 1972 12,500
SW8765 1972 12,500	SW8865 1972 12,500

Historical Map - Segment A13

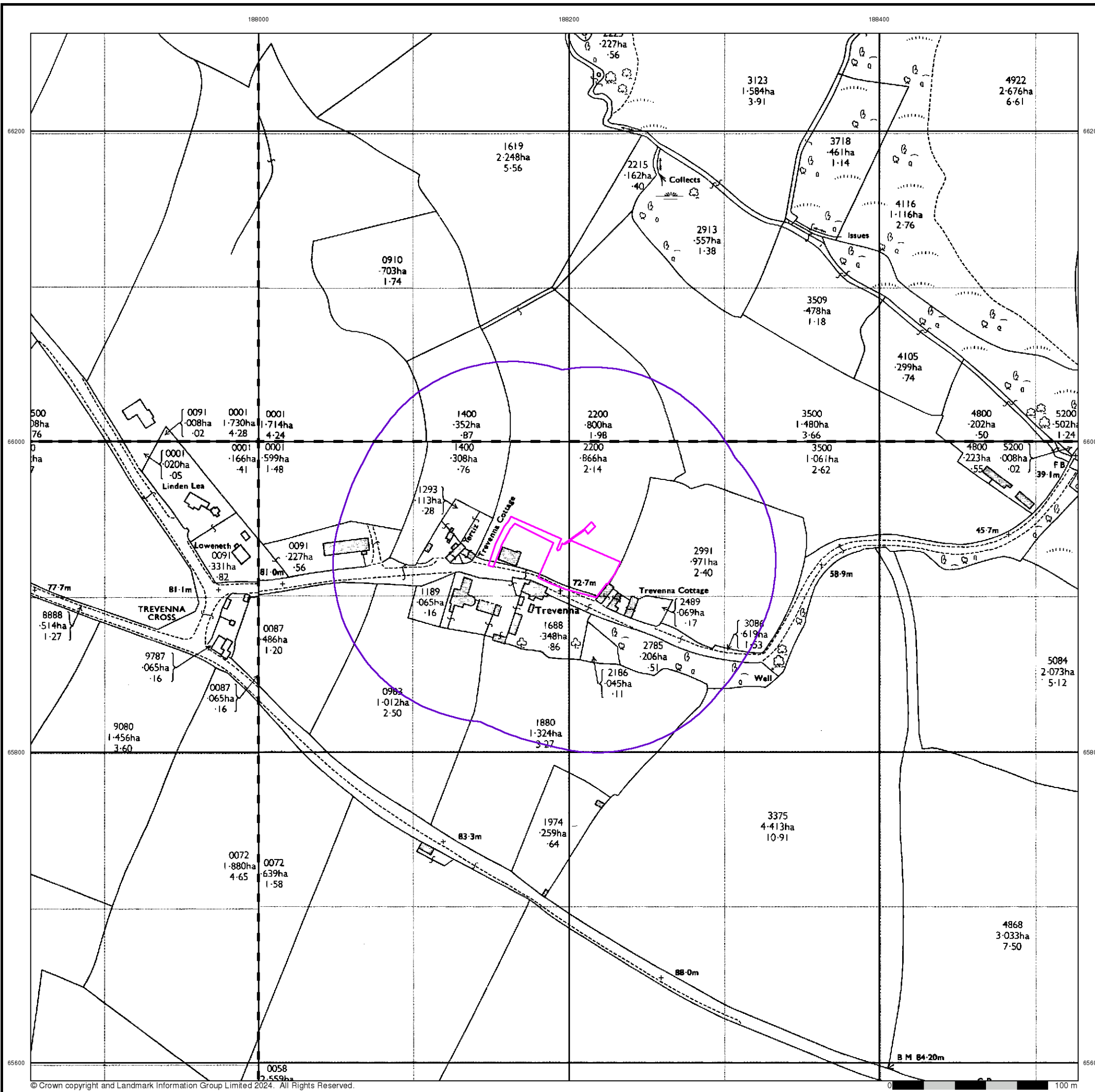


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
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 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



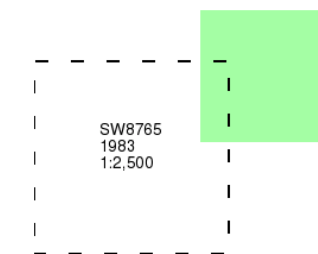
Additional SIMs

Published 1983

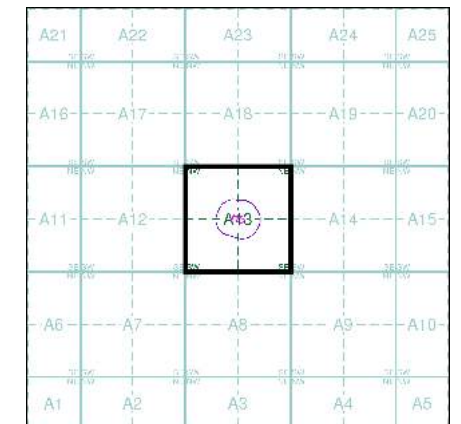
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

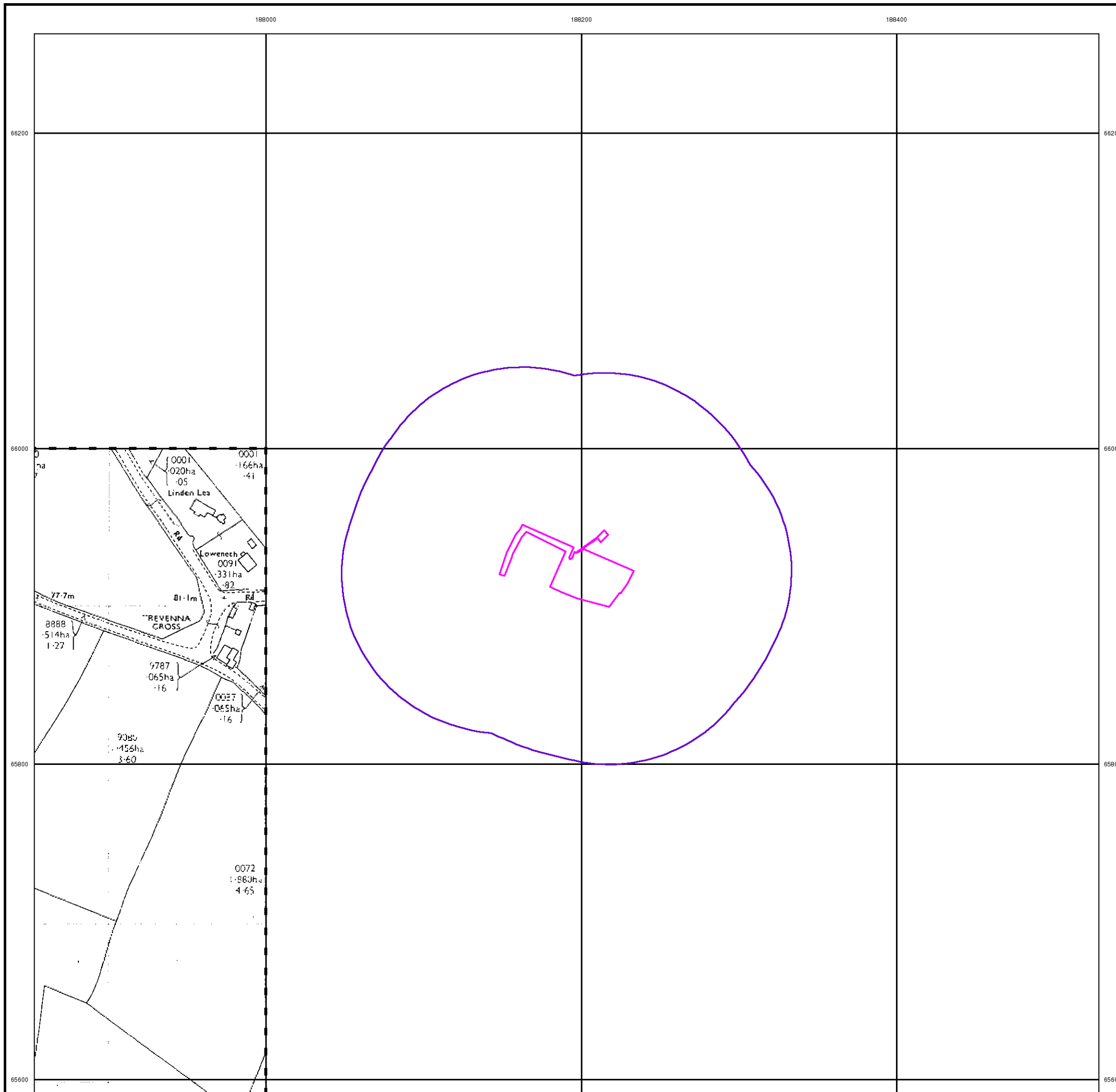


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



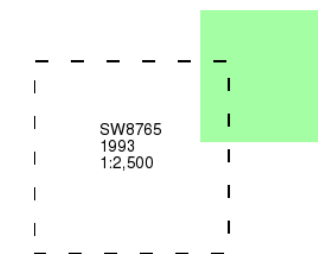
Additional SIMs

Published 1993

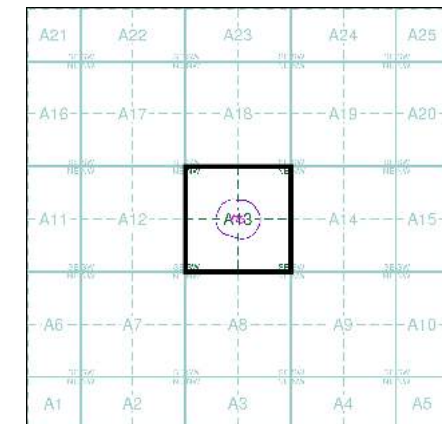
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

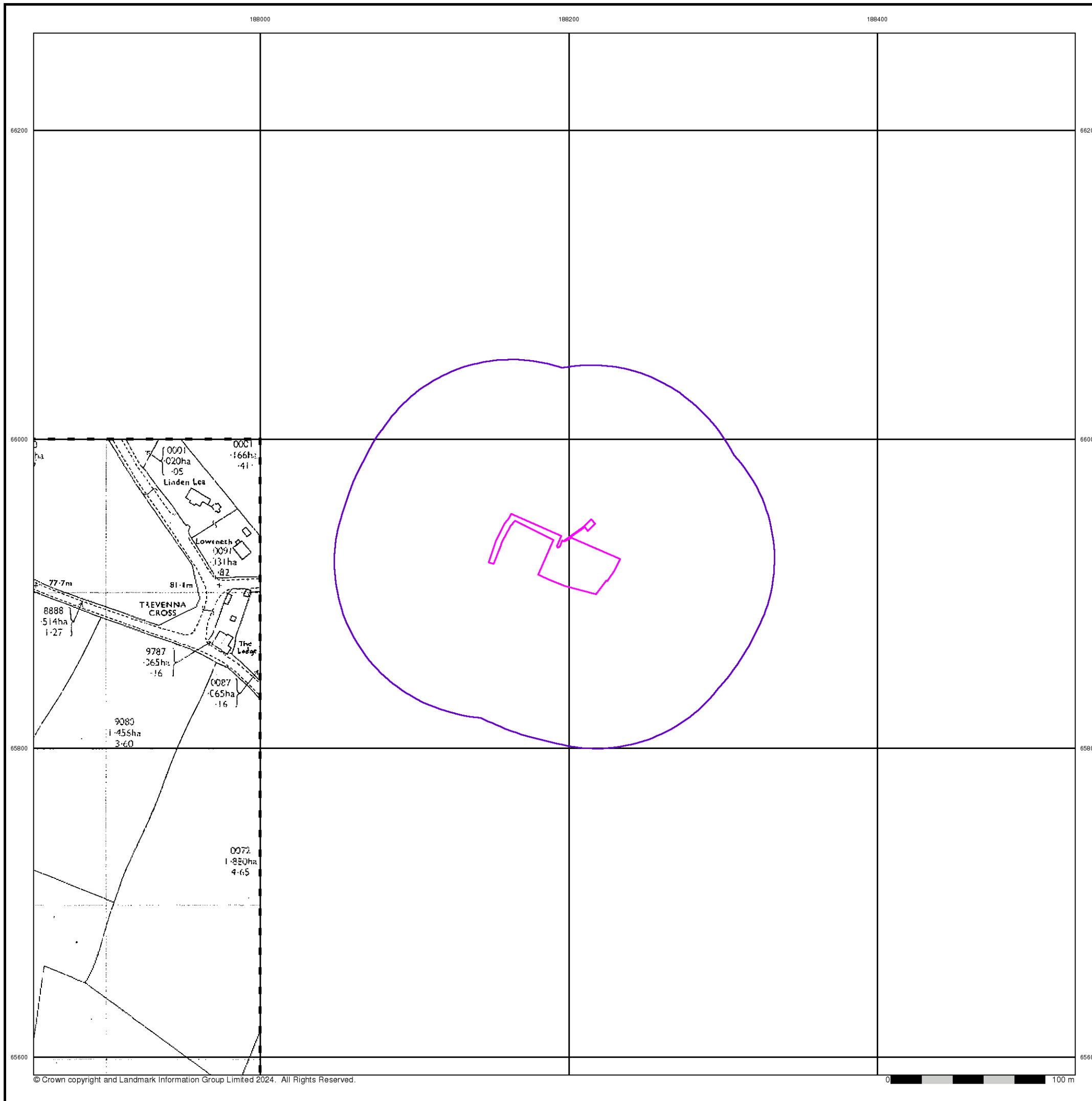


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



Large-Scale National Grid Data

Published 1995

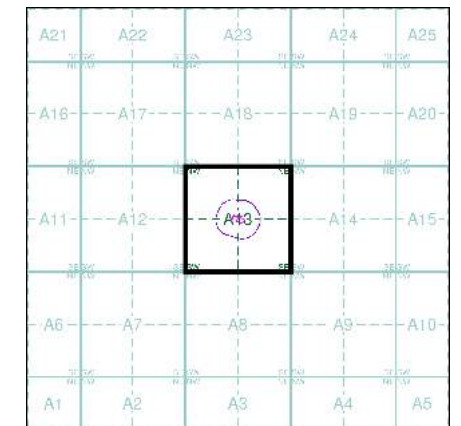
Source map scale - 1:2,500

'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)

SW8766 1995 12,500	SW8866 1995 12,500
SW8765 1995 12,500	SW8865 1995 12,500

Historical Map - Segment A13

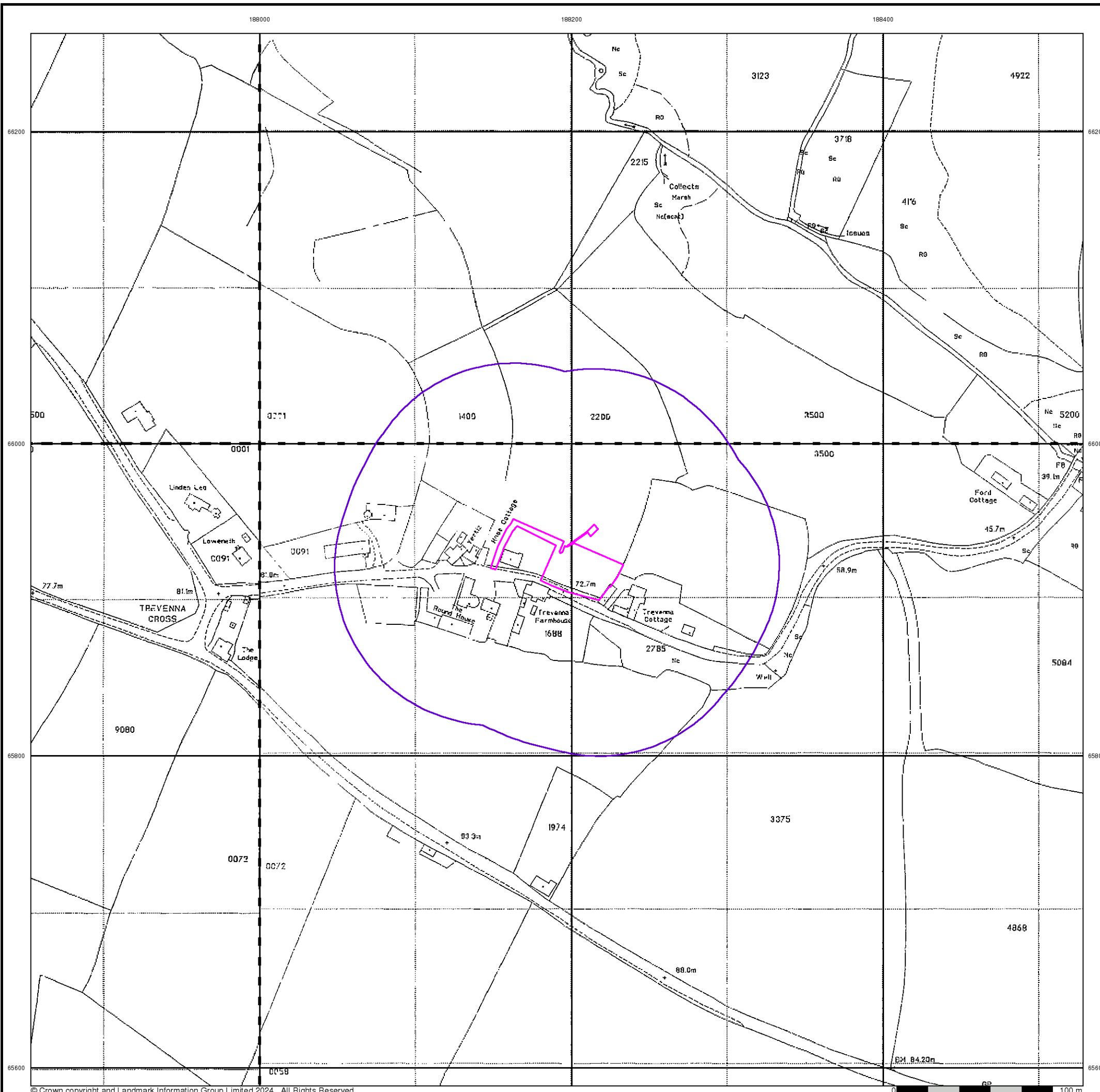


Order Details

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 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
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 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



188000

188200

188400

66200

66200

66000

66000

65800

65800

65600

65600



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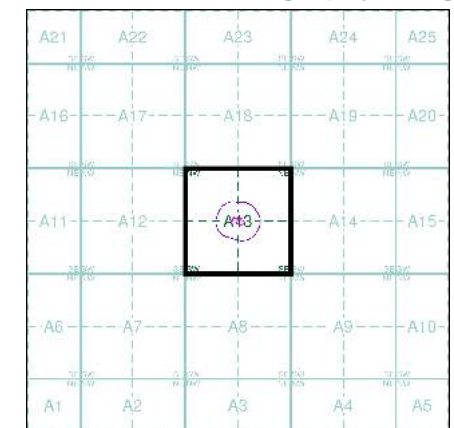
0 100 m

Historical Aerial Photography

Published 2001

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

Historical Aerial Photography - Segment A13

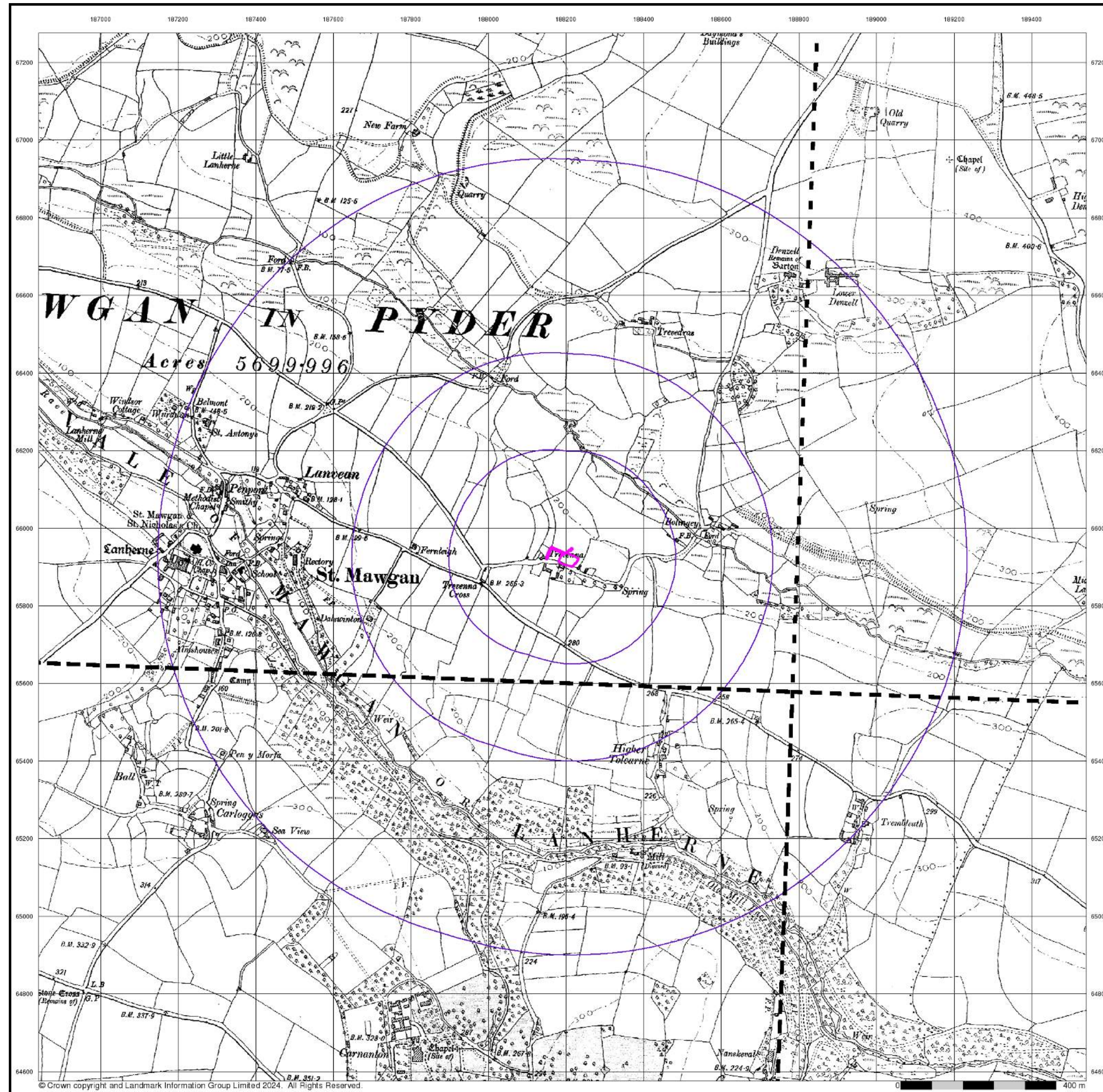


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 100

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



Cornwall & Isles Of Scilly

Published 1907 - 1908

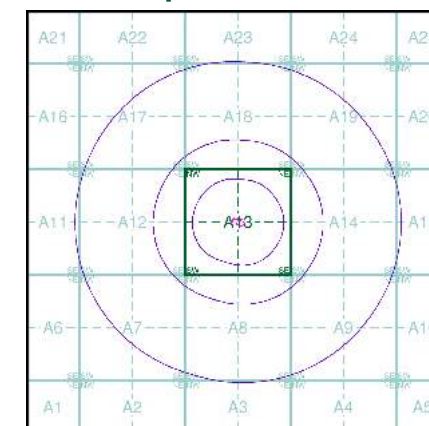
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

032NW 1908 1:10,560	032NE 1907 1:10,560
032SW 1907 1:10,560	032SE 1907 1:10,560

Historical Map - Slice A



Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



Ordnance Survey Plan

Published 1962 - 1963

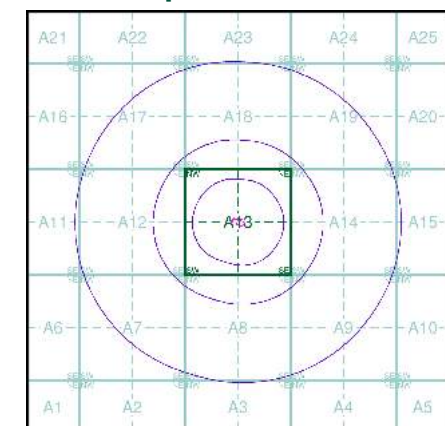
Source map scale - 1:10,000

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)

SW86NE	1963
1:10,560	
SW86SE	1962
1:10,560	

Historical Map - Slice A

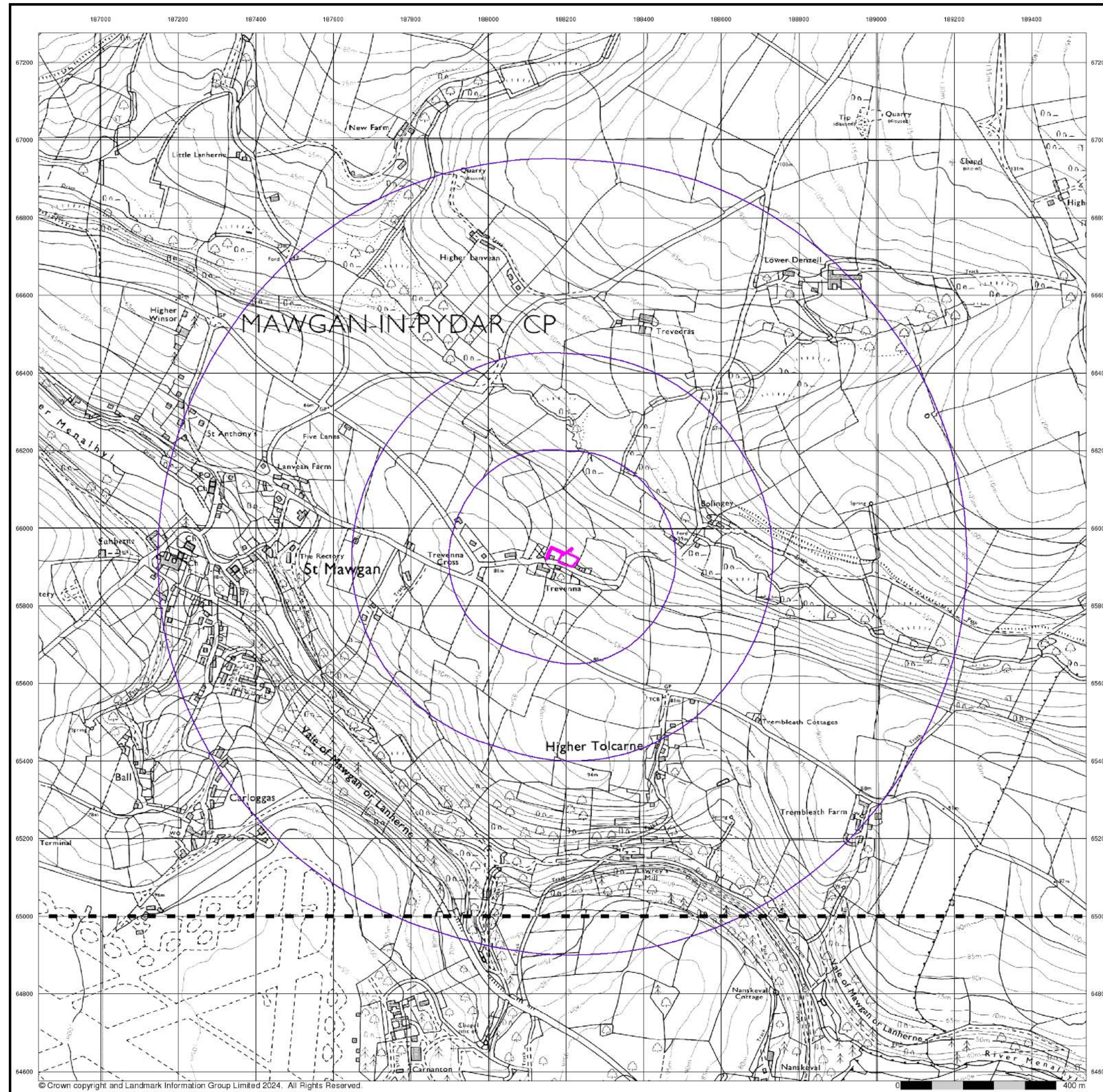


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



Ordnance Survey Plan

Published 1974

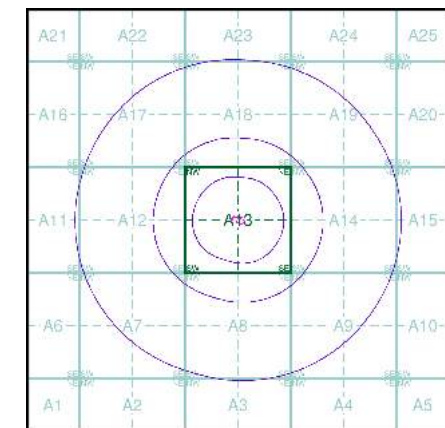
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SW86NE	1974	1:10,000
SW86SE	1974	1:10,000

Historical Map - Slice A

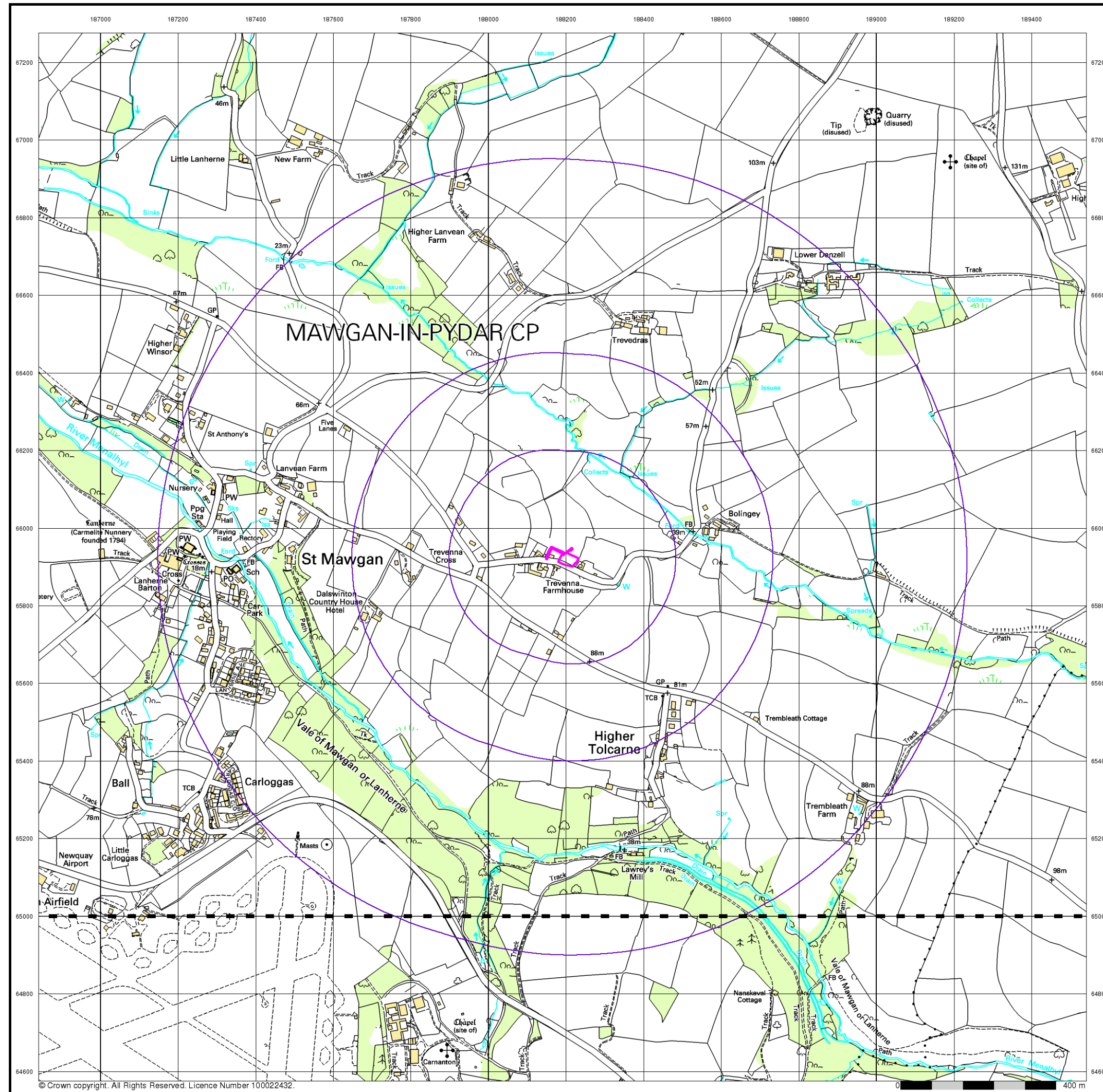


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



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10k Raster Mapping

Published 2000

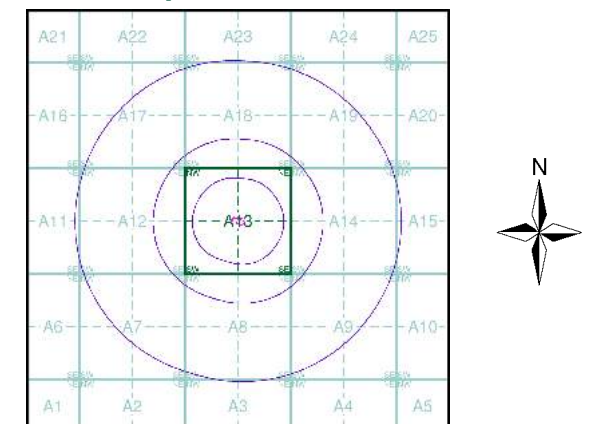
Source map scale - 1:10,000

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)

SW86NE	2000
1:10,000	
SW86SE	2000
1:10,000	

Historical Map - Slice A

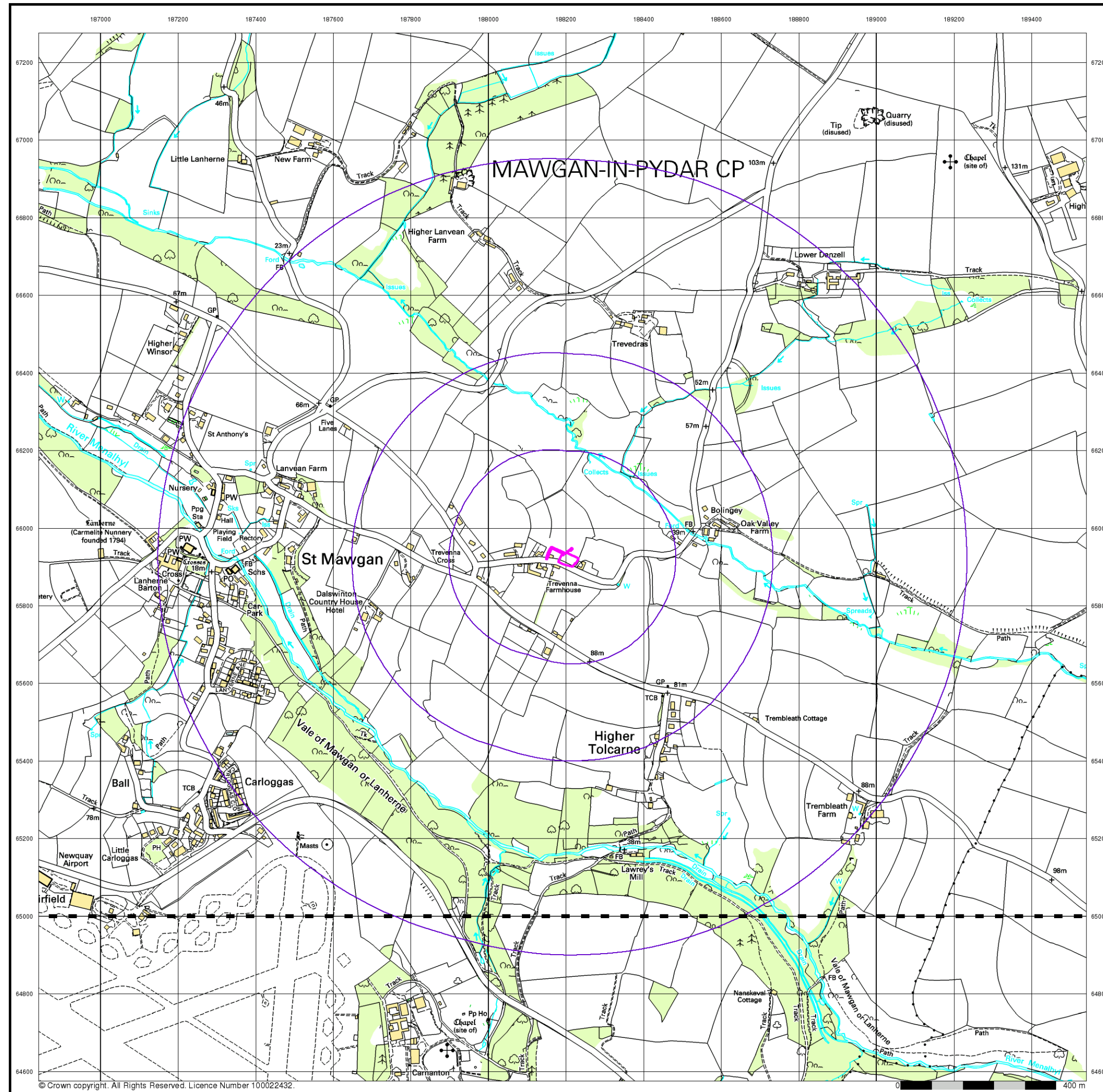


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2006

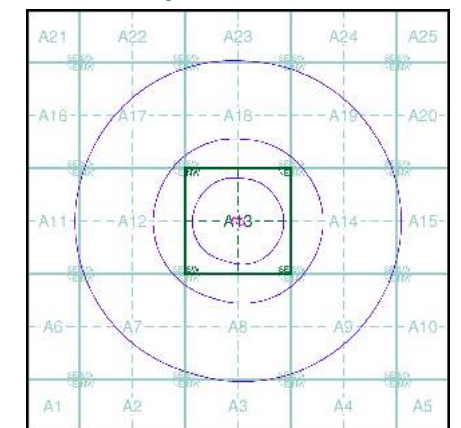
Source map scale - 1:10,000

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)

SW86NE	2006
1:10,000	
SW86SE	2006
1:10,000	

Historical Map - Slice A

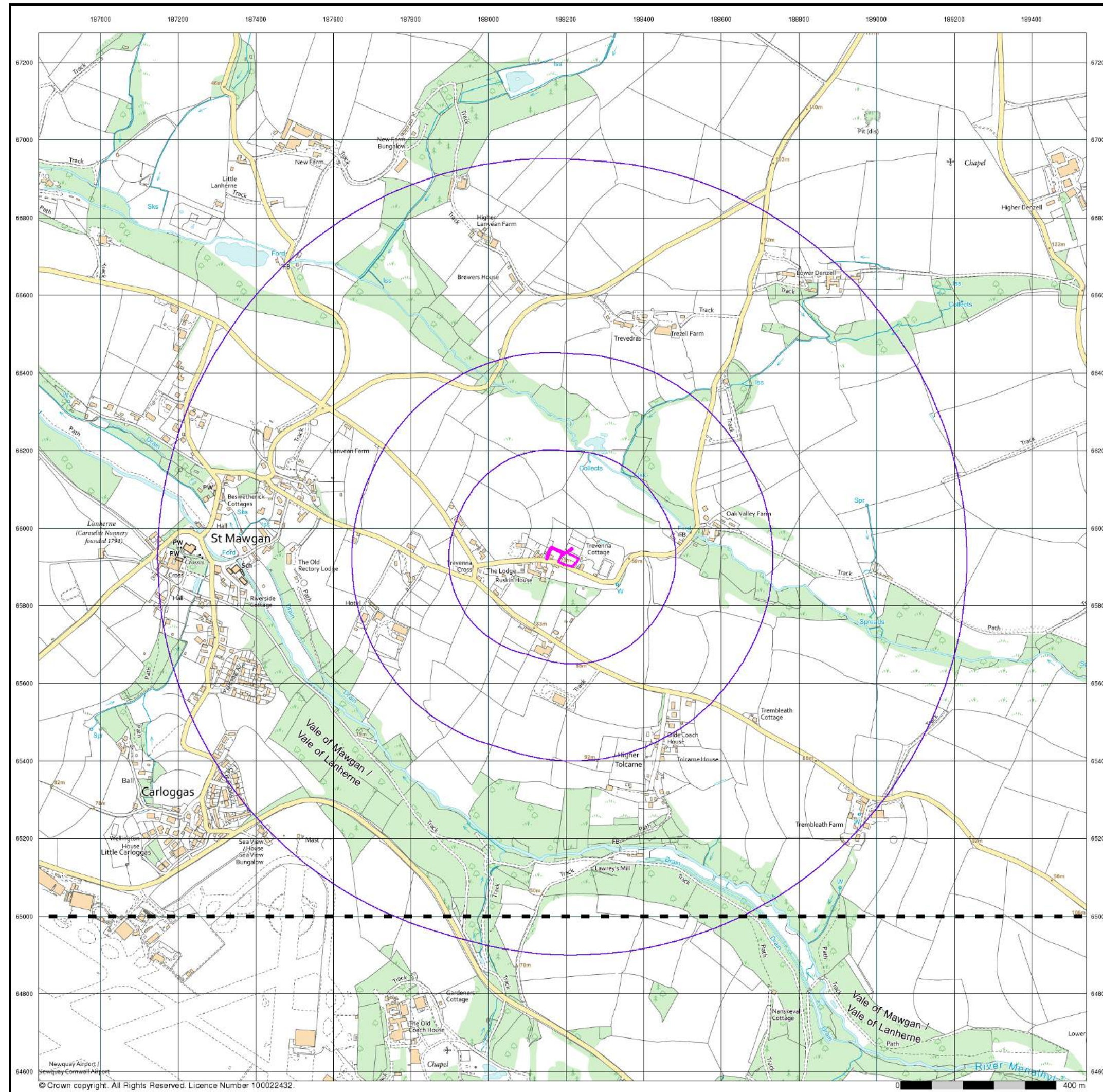


Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

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VectorMap Local

Published 2023

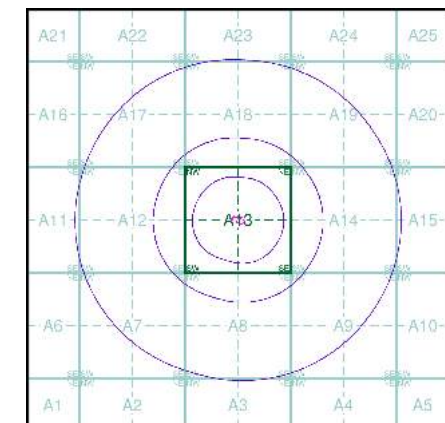
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

- SW86NE | 2023 | Variable
- SW86SE | 2023 | Variable

Historical Map - Slice A



Order Details

Order Number: 330593820_1_1
 Customer Ref: 22016
 National Grid Reference: 188190, 65930
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Ryeland, Trevenna Cross, St. Mawgan, NEWQUAY, TR8 4HB



APPENDIX D

UXO Risk Map

UNEXPLODED BOMB RISK MAP



SITE LOCATION

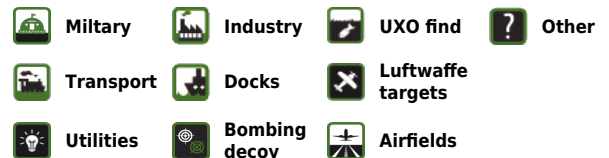
Map Centre: 188131,65936



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density.

Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to uxo@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

The Phased Approach to Land Contamination

As set out in Contaminated Land Report 11 - Model Procedures for the Management of Land Contamination. Environment Agency Guidelines

