



# Phase I Preliminary Risk Assessment

Longstone Farm, Trenear, Helston, TR13 0HG

12 December 2022

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## EXECUTIVE SUMMARY

Objectives	
Wheal Jane Consultancy was commissioned by James and Caleb Martins to undertake an environmental risk assessment for a proposed development.	
Site Setting	
<b>Current Use</b>	The site is currently open land with a rectangular building situated in the South-West Corner. The building is currently in use as a workshop/storage.
<b>History</b>	<p>The site has been open land, adjacent to an active farm since the earliest maps. By 1999 a large, teardrop shaped pond was dug on site. By 2022 a rectangular building was constructed on site, and the pond appears to have been infilled or overgrown.</p> <p>Three disused mines were present within 1.5km of the site in the earliest maps. No major mining activity or industry has occurred in the surroundings of the site during the mapped history. Longstone farm, adjacent to the site, was present on the earliest maps, but significantly developed in the 1970s.</p>
<b>Geology</b>	The geological map indicates that the site is underlain by the Carnmenellis Intrusion of Carboniferous - Permian age formed between 358.9 and 252.2 million years ago.
<b>Controlled Waters</b>	The site possesses a very low RoFRaS Flood Rating (low risk from Rivers and the Sea).
<b>Radon</b>	Development is within an area where greater than 30% of properties are above the action level for Radon.
Conclusions	
<p>Levels of arsenic on site are estimated to be 35-45mg/kg, which slightly exceed guideline values of 37 mg/kg. Published literature (R.S. Middleton et al, 2017) suggests an average bioavailability of 19% for arsenic in Cornwall, therefore the occurring arsenic levels are highly likely to be within guideline values. However, it would be prudent to conduct soil sampling and testing on site to ensure the worst case.</p> <p>The site is currently adjacent to an active farmyard and in use as a workshop/storage. It is likely that material such as animal waste, as well as spillage/leakage of mechanical farm equipment and vehicles is present within the grounds. This is considered a moderate risk to human health.</p> <p>Several piles of waste were present on site, including construction and demolition waste. As well as this, areas on site had been used for bonfires. These are all potential sources of contamination, and therefore it is likely that a contaminated pathway is present.</p> <p>The closest historic works are a quarry 635m SE, active between 1907 and 1963. Wheal Fursden Mine, disused before the earliest maps. Due to the distant location, topography, and scarcity of Historic Works in the area, it is considered that a contaminated pathway is present.</p>	



There are 8 recorded pollution incidents within 500m of the Animal Waste/Slurry. The most significant are: A Category 2 (Significant) 129m S of the site in 1995, A Category 1 (Major) Incident 350m SE of the site in 1995 and a Category 2 (Significant) Incident 439m SE of the site in 1996. Although all are all downstream of the site, they all occurred on an equal elevation to the site and due to the proximity, severity, and abundance of pollution incidents in the area it is likely that a contamination pathway is present.

The only registered Industrial Land Use within 500m of the site is a Slurry Bed 346m NW of the site. Due to the distance, local topography, and scarcity of Industry in the area it is unlikely that a contaminated pathway is present.

It can be concluded that the site is likely to be suitable for development, once the recommendations contained within this report are implemented.

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### Recommendations

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It is recommended that a Phase II Site Investigation be implemented to identify, quantify, and delineate any potential areas of contamination on the site. A Phase II Site Investigation should also include a geotechnical assessment of the site. The Phase II Investigation will be aimed at identifying possible sources of contamination highlighted in the Preliminary Conceptual Model.

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

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 suitable risk assessments, job safety and environmental analysis commences.

Waste material to be removed from site should be handled by a suitably qualified waste contractor.

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## 1 INTRODUCTION

### 1.1 General

1.1.1 Wheel Jane Consultancy was commissioned by James and Caleb Martins to undertake an environmental risk assessment at the site known as 'Longstone Farm, Trenear, Helston, TR13 0HG.' Wheel Jane Consultancy was formally instructed to proceed via email on the 24<sup>th</sup> November 2022.

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:

Landmark Environmental Data dated 2<sup>nd</sup> December 2022



Historic mapping dated 2<sup>nd</sup> December 2022.  
Zetica Unexploded Ordnance (UXO) risk map.  
BGS sheet 352, Falmouth





## 2 PHASE I ASSESSMENT

### 2.1 Site Location and Layout

- 2.1.1 The site is located off a minor road approximately 4.0km North of Helston. The site is approximately centred on National Grid Reference SX 166180 31920.
- 2.1.2 The site is irregular in shape and covers an area of 0.16ha.
- 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
East	Agricultural
South	Agricultural
West	Agricultural and Residential

### 2.3 Site Walkover Survey

- 2.3.1 Wheal Jane Consultancy conducted a site walkover survey on 1<sup>st</sup> December 2022. Photographs from the walkover survey are provided in Appendix A.
- 2.3.2 The site is currently moderately overgrown open land within some tree cover. The surfacing is predominantly grass over topsoil.
- 2.3.3 The site is gently sloping. On the maps, a large pond is indicated to sit partially within the site. This was not observed, and is either overgrown or infilled.
- 2.3.4 A single agricultural building is situated on site. It is in current use as a workshop, with vehicles and farming equipment stored inside.
- 2.3.5 The building appears to have Asbestos wall and roof panelling.
- 2.3.6 The building has a hardstanding base, but it does not extend underneath the walls.
- 2.3.7 An above ground oil tank is present adjacent to the Northern wall of the building. It does not have a hardstanding base, but appeared to be in good modern condition.
- 2.3.8 Several piles of construction, electronic, and general waste are present on site.
- 2.3.9 An area on site has clearly been used for bonfires.
- 2.3.10 A small dump truck was parked on site.
- 2.3.11 The site is predominantly bounded by stone hedges. In some areas the site boundary is open land.



## 2.4 Proposed Development

2.4.1 Wheal Jane Consultancy was not provided with information regarding the proposed development of the site at the time of writing this 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, 1877-1879, 1:2,500	The site is currently open land, likely agricultural. Two parallel field boundaries, running E-W, cross the site in the Southern section.	A farmhouse and farmyard are present 20m W of the site. Wheal Fursden (Tin, Disused) 710m E Wheal Christopher (Tin, Disused) 750m NW Old Shaft 800m W Bodilly Mill (Corn) 900m E Wheal Mount (Tin, Disused) 1.1km S Engine House and Worked Land, 1.15km N
Ordnance Survey, 1888, 1:10,560	No Significant Change	No Significant Change
Ordnance Survey, 1907-1908, 1:2,500	No Significant Change	Reservoir 1.3km SW



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Ordnance Survey, 1938, 1:10,560 (Incomplete)	Site is not present within mapped area.	No Significant Change
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Ordnance Survey, 1963, 1:10,000	No Significant Change	Quarry (Disused) 635m SE
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Ordnance Survey, 1972, 1:2,500	No Significant Change	Significant development of Longstone farm adjacent to the West. Several new agricultural buildings constructed.
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Ordnance Survey, 1995, 1:2,500	No Significant Change	No Significant Change
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Aerial Photo, 1999	Site is appears to be open land with moderate tree cover. A large, teardrop shaped pond is present partially within the site.	No Significant Change
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10k Mapping, 1:10,000	Raster 2006,	No Significant Change	No Significant Change
10k Mapping, 1:10,000	Raster 2016,	No Significant Change	No Significant Change
VectorMap Local, 2022, 1:10,000		Rectangular building (8m x 15m) constructed on site.	No Significant Change
Aerial Photo, 2022		Pond on site appears to be overgrown/infilled. Site is still moderately wooded with open land.	No Significant Change

2.5.2 The site has been open land, adjacent to an agricultural yard, since the earliest maps. By 1999 a large, teardrop shaped pond was dug on site. By 2022 a rectangular building was constructed on site, and the pond appears to have been infilled or overgrown.

2.5.3 Three disused mines were present within 1.5km of the site in the earliest maps. No major mining activity or industry has occurred in the surroundings of the site during the mapped history. Longstone farm, adjacent to the site, was present on the earliest maps, but significantly developed in the 1970s.

## 2.6 Geological Setting

*Table 2.2: Overview of the geological setting*

Geology
Reference has been made to the Published Geology (BGS sheet 352, Falmouth, 1:50,000), as well as the BGS online map viewer.



**Superficial  
Geology**

The geological map shows no superficial depo:  
present on site.

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**Bedrock Geology**

The geological map indicates that the site is u  
the Carnmenellis Intrusion of Carboniferous - Permian age  
formed between 358.9 and 252.2 million years ago. The BGS  
describes this unit as a coarsely crystalline Granite.

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**Geology from  
BGS Borehole  
Records/ Previous  
Site Investigation  
Records**

There is no evidence of BGS boreholes or previo  
investigation records on or near the site.

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**Background  
Estimated Soil  
Chemistry**

- Arsenic: 35-45 mg/kg  
- Cadmium: <1.8 mg/kg  
- Chromium: 40-60 mg/kg  
- Lead: <100 mg/kg  
- Nickel: 15-30 mg/kg  
Values for arsenic slightly 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.

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**Radon**

The property is in a Radon Affected Area, as gr  
properties are above the action level.

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## 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	
<b>Nearest Surface Water Feature</b>	The nearest surface water feature is identified on understood to be a pond/lake.
<b>OS Water Network</b>	<p>There are seven Inland rivers present within 250m of proposed development: 7m SE, 44m NE, 152m E, 155m E, 171m E, 174m SE, 202m SE</p> <p>There is one Lake present within 250m of the proposed development: 0m SE (on site)</p> <p>There are no reservoirs or ponds present within 250m of the proposed development. There are no tidal rivers or streams within 250m of the proposed development.</p>
<b>Surface Water Abstractions</b>	There are no active surface water abstraction lic 1000m of the planned development.
<b>Monitoring</b>	<p>There is no biological monitoring data within 500m</p> <p>No chemical monitoring data has been recorded within 500m of the site.</p>
Hydrogeology/ Groundwater	
<b>Superficial Aquifer</b>	There is no superficial aquifer present on site.
<b>Bedrock Aquifer</b>	The Carnmenellis Intrusion bedrock is classified as A aquifer of High Vulnerability.
<b>Source Protection Zones</b>	There are no source protection zones located with the site.
<b>Groundwater Abstractions</b>	<p>There are nineteen groundwater abstraction lic within 1000m of the site: 115m SW, General Farming and Domestic 355m SE, Agriculture (General) 359m W, General Farming and Domestic 424m NE, General Farming and Domestic 690m S, General Farming and Domestic 855m NW, General Farming and Domestic 985m NE, General Farming and Domestic, and Household Water Supply; Drinking; Cooking; Sanitary; Washing; (Small</p>



	Garden)
<b>Sensitive Land Uses</b>	
	No Local Nature Reserves, National Nature Reserves, Special Protection Areas, Special Areas of Conservation, Areas of Ancient Woodlands, Sites of Special Scientific Interest, Ramsar Sites, Areas of Outstanding Natural Beauty or Environmentally Sensitive Areas are within 2000m of the site.
	The proposed development is within an existing Nitrate Vulnerability Zone (NVZ): The Loe Eutrophic Lake NVZ
<b>Heritage/ Archaeological</b>	There are no World Heritage Sites within 2000m of the site. There are no archaeologically significant features in the immediate surroundings of the site.
<b>Other Environmental Information</b>	
<b>Contaminated Land</b>	No sites determined as Contaminated Land under Part 2A EPA 1991 are situated within 500m of the site.
	There are no Environment Agency landfill sites within 500m of the site.
	There are no Historic Environment Agency landfill sites within 500m of the site.
<b>Waste</b>	One active discharge consent licence has been granted within 500m of the site: 490m NE, Sewage Discharge, Treated Effluent, Land Soakaway
	There are no Red List Discharge Consent licences within 500m of the site.
<b>Hazardous Substances</b>	There are no sites related to the control or handling of hazardous materials within 2000m of the site.
<b>Pollution Incidents</b>	There are eight recorded pollution incidents with proposed development: <b>129m SE, 1995, Animal Waste/Slurry, Category 2 (Significant Incident)</b> 286m SW, 1992, Miscellaneous – Foam, Category 3 (Minor Incident) <b>350m SE, 1993, Animal Waste/Slurry, Category 1 (Major Incident)</b> 353m SE, 1991, Animal Waste/Slurry, Category 3 (Minor Incident) 357m SE, 1995, Animal Waste/Slurry, Category 3 (Minor Incident) 376m N, 1995, Animal Waste/Slurry, Category 3 (Minor Incident) 411m SE, 1995, Animal Waste/Slurry, Category 3 (Minor Incident) <b>439m SE, 1996, Animal Waste/Slurry, Category 2 (Significant Incident)</b>
<b>Flooding</b>	The site possesses a very low RoFRaS Flood Rating (Risk of Flooding from Rivers and the Sea). The site is not within 250m of a Zone 2 or Zone 3 Floodplain area.



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	<p>There are no groundwater flooding susceptibility issues associated with the proposed development.</p>
<b>Current Industrial Land Uses</b>	<p>There is one current potentially contaminative public infrastructure within 500m of the proposed development: 346m NW, Slurry Bed</p>
<b>Historic Industrial Land Uses</b>	<p>There are no historic potentially contaminative industrial land use within 500m of the proposed development.</p>
<b>Unexploded Ordnance (UXO)</b>	<p>The risk to the site and its surroundings from the presence of UXO is low (see Appendix D).</p>
<b>Archival Metalliferous Mining Search</b>	<p>A desktop mine search was completed by WJC in December 2022 (MS43002). The search concluded that the site is at Low risk from historic mining. The report is contained as Appendix E.</p>
<b>Adjacent Planning Applications</b>	<p>A Phase I contaminated land risk assessment and desktop mine search equivalent was carried out by Groundsure Avista on a property E of the site (PA21/11914). The contamination assessment concluded that no significant concerns were identified. The mine search indicated that the property lay within the area of the poorly documented Wheal Fursden Mine, with potential worked mineralised veins passing under the property.</p>

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### 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 has the potential to cause harm or to cause pollution of controlled waters.”
Receptor	“a living organism, a group of living organisms, an ecological system or a piece of property” which meet the 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 contaminant is being exposed to, or affected by, a receptor:  is being exposed to, or affected by, a contaminant which 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>Site Use (Farmyard/workshop)</i>
	<i>Waste on site</i>
	<i>Historic Works</i>
	<i>Pollution Incidents</i>
Pathways	<i>Slurry Bed</i>
	<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>
	<i>Future site users</i>
Receptors	<i>Site workers</i>
	<i>Flora &amp; Fauna</i>

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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	<b>High Risk</b> – Development is within an area where greater than 30% of properties 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	<b>Low Risk</b> – Levels of arsenic on site estimated to be 35-45mg/kg, which slightly exceeds the guideline values of 37 mg/kg. Published literature (R.S. Middleton <i>et al.</i> , 2017) suggest an average bioavailability 19% for arsenic in Cornwall, therefore naturally occurring arsenic levels highly likely to be within guideline values.
	Site Use (Farmyard/Workshop)	Ground Gas: Methane, Leachate Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH)	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Likely	Medium	<b>Moderate Risk</b> - The site is currently a farm to an active farmyard and in use as a workshop/storage. It is likely that material such as animal waste, as well as spillage/leakage from mechanical farm equipment and vehicles is present on the ground. This is considered a moderate risk to human health.
	Waste on site	Total Petroleum Hydrocarbons (TPH) Polychlorinated Biphenyls (PCBs) Oils	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Likely	Medium	<b>Moderate Risk</b> – Several piles of waste were present on site, including construction and electronic waste. As well as this, areas of the site had been used for bonfires. These are all potential sources of contamination, and therefore it is likely that a contamination pathway is present.



	Historic Works	Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH) Heavy Metals	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Unlikely	Medium	<b>Low Risk</b> – The closest historic waste quarry 635m SE, active between 1907 and 1963, and Wheal Fursden Mine, distal before the earliest maps. Due to distance, local topography, and scarcity of Historic Works in the area, it is unlikely that a contaminated pathway is present.
Off Site	Pollution Incidents	Various	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Likely	Medium	<b>Moderate Risk</b> – There are 8 recorded pollution incidents within 500m of the site, almost all involving Animal Waste/Slurry. The most significant are: A Category 2 (Significant) Incident 129m S of the site in 1995, A Category 1 (Major) Incident 35m SE of the site in 1993, and a Category 1 (Significant) Incident 439m SE of the site in 1996. Although these are all downstream of the site, they all occurred on an elevated elevation to the site, and due to proximity, severity, and abundance of pollution incidents in the area it is likely that a contamination pathway is present.
	Slurry Bed	Ground Gas: Methane, Leachate Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH)	Dermal contact Soil and dust ingestion and inhalation Ground & surface waters	Future site users Site workers Site flora and fauna	Likely	Medium	<b>Low Risk</b> - The only registered Industrial Use within 500m of the site is a Slurry E 346m NW. Due to the distance, local topography, and scarcity of Industry in the area it is unlikely that a contamination pathway is present.



## 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*

<b>Underground Cavities</b>
The nearest recorded underground cavity is a mad made mining
<b>Unstable Slopes</b>
The site is gently sloping; the risk from unstable slopes is low.
<b>British Geological Survey Data</b>
Information relating to potential ground instability issues at this site has been collected fr BGS digital and hard-copy mapping. Below is the summarised information.



Natural Hazard Findings	
Hazard	Risk Classification
Shrink – Swell Clays	<b>Negligible</b> - Ground conditions predominantly non-plastic. 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 due to potential problems with shrink-swell clays.
Land slides	<b>Very Low</b> - Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
Soluble Rocks	<b>Negligible</b> - Soluble rocks are present, but unlikely to cause problems under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
Compressible Deposits	<b>Negligible</b> - 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	<b>Very Low</b> - 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	<b>Negligible</b> - 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 South-East



## 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 with hard standing or gravel present underlying 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 Carnmenellis Intrusion.

### 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 will 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 Development is within an area where greater than 30% of properties are above the Radon action level.
- 5.3.2 Levels of arsenic on site are estimated to be 35-45mg/kg, which slightly exceeds the guideline values of 37 mg/kg. Published literature (R.S. Middleton et al, 2017) suggest an average bioavailability of 19% for arsenic in Cornwall, therefore the naturally occurring arsenic levels of are highly likely to be within guideline values. However, it would be prudent to conduct soil sampling and testing on site to ensure this is the case.
- 5.3.3 The site is currently adjacent to an active farmyard and in use as a workshop/storage. It is likely that material such as animal waste, as well as spillage/leakage from mechanical farm equipment and vehicles is present within the ground. This is considered a moderate risk to human health.
- 5.3.4 Several piles of waste were present on site, including construction and electronic waste. As well as this, areas on site had been used for bonfires. These are all potential sources of contamination, and therefore it is likely that a contaminated pathway is present.





- 5.3.5 The closest historic works are a quarry 635m SE, active between 1907 and 1963, and Wheal Fursden Mine, disused before the earliest maps. Due to the distance, local topography, and scarcity of Historic Works in the area, it is unlikely that a contaminated pathway is present.
- 5.3.6 There are 8 recorded pollution incidents within 500m of the site, almost all involving Animal Waste/Slurry. The most significant are: A Category 2 (Significant) Incident 129m S of the site in 1995, A Category 1 (Major) Incident 350m SE of the site in 1993, and a Category 2 (Significant) Incident 439m SE of the site in 1996. Although these are all downstream of the site, they all occurred on an equal elevation to the site, and due to the proximity, severity, and abundance of pollution incidents in the area it is likely that a contamination pathway is present.
- 5.3.7 The only registered Industrial Land Use within 500m of the site is a Slurry Bed 346m NW. Due to the distance, local topography, and scarcity of Industry in the area it is unlikely that a contaminated pathway is present.
- 5.3.8 It can be concluded that the site is likely to be suitable for the proposed development, once the recommendations contained within this report have been implemented.

#### 5.4 Recommendations

- 5.4.1 It is recommended that a Phase II Site Investigation be implemented in order to identify, quantify, and delineate any potential areas of contamination on site. The Phase II Site Investigation should also include a geotechnical assessment of the site.
- 5.4.2 The Phase II Investigation will be aimed at identifying possible sources of contamination highlighted in the Preliminary Conceptual Model.
- 5.4.3 Full radon protective measures are required for the proposed development in-line with BRE guidelines.
- 5.4.4 In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.
- 5.4.5 All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.
- 5.4.6 Waste material to be removed from site should be handled by a suitably licensed waste contractor.



## 6 REFERENCES

- 6.1.1 BSI (2011) BS 10175:2011 +A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice. London, British Standards Institution
- 6.1.2 Building Research Establishment (BRE) (2007) BR211 - Radon: Guidance on Protective Measures for New Buildings. Watford, BRE
- 6.1.3 CIRIA (2001) CIRIA C552 - Contaminated land risk assessment: A guide to good practice. London, CIRIA
- 6.1.4 CIRIA (2007) CIRIA C665 – Assessing Risks Posed by Hazardous Ground Gases to Buildings. London, CIRIA
- 6.1.5 Contaminated Land: Applications in Real Environments (CL:AIRE), Association of Geotechnical and Geo-environmental Specialists (AGS) and The Environmental Industries Commission (EIC) (2010) *Soil Generic Assessment Criteria for Human Health Risk Assessment*. London, CL:AIRE
- 6.1.6 Department of Communities and Local Government (2012) *National Planning Policy Framework*. London, DCLG
- 6.1.7 UK government: Land Contamination Risk Management Framework, gov.uk, October 2020
- 6.1.8 Environment Agency (2004) Contaminated Land Report 11 - Model Procedures for the Management of Land Contamination. Bristol, Environment Agency
- 6.1.9 Environment Agency (2005) Guidance on Assessing the Risk Posed by Land Contamination and Its Remediation on Archaeological Resource Management. Bristol, EA
- 6.1.10 Great Britain. *Environmental Protection Act (1990)*. London, The Stationery Office
- 6.1.11 Great Britain. Environmental Damage (Prevention and Remediation) Regulations (2009). London, The Stationery Office
- 6.1.12 Great Britain. *Water Act (2003)*. London, The Stationery Office
- 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.*

*Unless otherwise expressly stated, nothing in this report shall create or confer any rights or other benefits pursuant to the Contracts (Rights of Third Parties) Act 1999 in favour of any person other than the person commissioning this report.*

*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: Longstone Farm, Trehear, Helston,  
TR13 0HG

Client: James and Caleb Martins

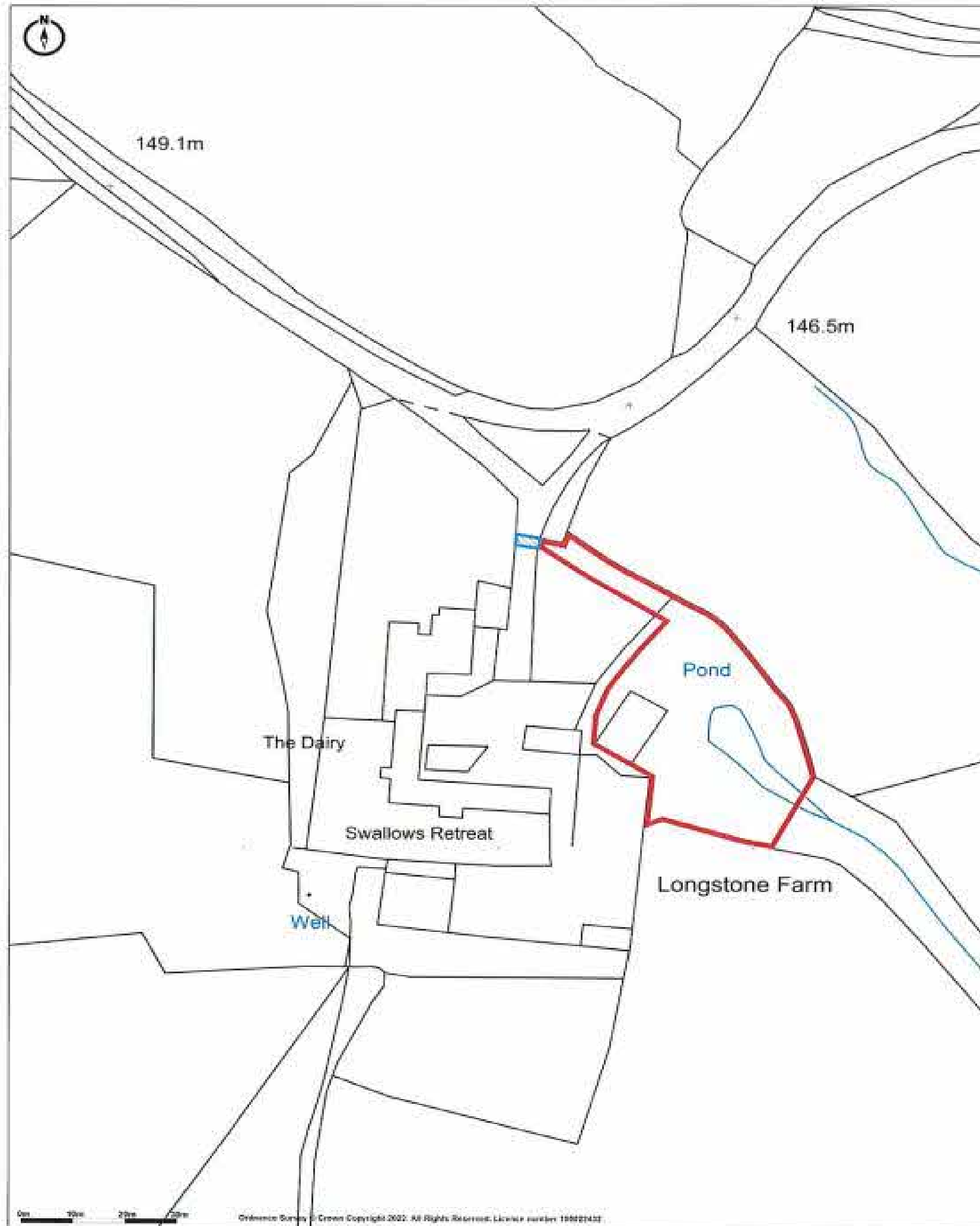
Report Title: Phase 1 Preliminary Risk Assessment (PRA)

Date: 12/12/2022

Ref: 21278

Figure: 2.1





Legend:



Title :

Current Site Layout

Project:

Longstone Farm, Trenear, Helston, TR13  
0HG  
21278

Client:

James and Caleb Martins

Date 12/12/2022

Scale: NTS

Drawn by -

Revision: A

Figure: 2.2



## APPENDICES:


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



APPENDIX A  
Site Photographs





Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
		Appendix: A




Title:	Walkover Photographs
Project:	Longstone Farm, Trenear, Helston, TR13 0HG
Client:	James and Caleb Martins
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	01/12/22

Ref: 21278




Appendix: A



Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
	Ref: 21278	Appendix: A



Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
	Ref: 21278	Appendix: A



Title:	Walkover Photographs
Project:	Longstone Farm, Trenear, Helston, TR13 0HG
Client:	James and Caleb Martins
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	01/12/22

Ref: 21278



Appendix: A



Title: Walkover Photographs

Project: Longstone Farm, Trenear, Helston,  
TR13 0HG

Client: James and Caleb Martins

Report Title: Phase 1 Preliminary Risk Assessment


Date: 01/12/22

Ref: 21278




Appendix: A




Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
		Appendix: A



Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
	Ref: 21278	Appendix: A





Title:	Walkover Photographs	
Project:	Longstone Farm, Trenear, Helston, TR13 0HG	
Client:	James and Caleb Martins	
Report Title:	Phase 1 Preliminary Risk Assessment	
Date:	01/12/22	
	Ref: 21278	Appendix: A



Title: Walkover Photographs

Project: Longstone Farm, Trenear, Helston,  
TR13 0HG

Client: James and Caleb Martins

Report Title: Phase 1 Preliminary Risk Assessment

Date: 01/12/22

Ref: 21278



Appendix: A



Title:	Walkover Photographs
Project:	Longstone Farm, Trenear, Helston, TR13 0HG
Client:	James and Caleb Martins
Report Title:	Phase 1 Preliminary Risk Assessment
Date:	01/12/22

Ref: 21278



Appendix: A



Title: Walkover Photographs

Project: Longstone Farm, Trenear, Helston,  
TR13 0HG

Client: James and Caleb Martins

Report Title: Phase 1 Preliminary Risk Assessment

Date: 01/12/22

Ref: 21278



Appendix: A



Title: Walkover Photographs

Project: Longstone Farm, Trenear, Helston,  
TR13 0HG

Client: James and Caleb Martins

Report Title: Phase 1 Preliminary Risk Assessment

Date: 01/12/22

Ref: 21278



Appendix: A



## APPENDIX B

### Environmental Data

# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

304630085\_1\_1

**Customer Reference:**

21278

**National Grid Reference:**

166180, 31920

**Slice:**

A

**Site Area (Ha):**

0.16

**Search Buffer (m):**

1000

### Site Details:

Longstone Farm, Trenear

HELSTON

TR13 0HG

### 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	33
Hazardous Substances	-
Geological	34
Industrial Land Use	38
Sensitive Land Use	40
Data Currency	41
Data Suppliers	47
Useful Contacts	48

#### 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)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1			Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	2
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 1	Yes			
Pollution Incidents to Controlled Waters	pg 2		1	7	5
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4				2
River Quality Biology Sampling Points	pg 4				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 4		1	3	4 (*70)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 24	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 24	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 24	1	7	8	57

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
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 33	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 33				2
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
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)
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 34	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 34	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 36				3
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	pg 36	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 36				4
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 37	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 37	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards				n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas	pg 37	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 37	Yes	n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 38				1
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 38				11
Points of Interest - Public Infrastructure	pg 39			1	
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 40	1		1	
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
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	430	1	166000 32350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	463	1	166050 32400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	499	1	166650 32150
1	<b>Discharge Consents</b> Operator: Mrs Jacqueline Capleton Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Kelhendra Stp And Infiltr System, Trenear, Helston, Cornwall, Tr13 0hg Authority: Environment Agency, South West Region Catchment Area: Not Supplied Reference: Eprlb3793aw Permit Version: 1 Effective Date: 13th December 2018 Issued Date: 13th December 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwater Via Infiltr System <b>Status: New issued under EPR 2010</b> Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	490	2	166611 32185
2	<b>Discharge Consents</b> Operator: Ms S Sheehan Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Wendron Court Wheal Christopher, Releath, Helston, Cornwall Authority: Environment Agency, South West Region Catchment Area: Cober & Looe Pool, Cornwall Reference: 300598/Sa/01 Permit Version: 1 Effective Date: 19th November 1997 Issued Date: 19th November 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Soakaway <b>Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	705	2	165770 32540
3	<b>Discharge Consents</b> Operator: Cornwall Council Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Higher Bodilly Farm, Trenear, Helston, Cornwall, Tr13 0ha Authority: Environment Agency, South West Region Catchment Area: Cober & Looe Pool, Cornwall Reference: Npswqd008012 Permit Version: 1 Effective Date: 9th June 2009 Issued Date: 9th June 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwaters Via Soakaway <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	832	2	166943 32295
4	<b>Prosecutions Relating to Controlled Waters</b> Location: Trevehan Farm, Releath, HELSTON, Cornwall, TR13 0HD Prosecution Text: EA News Release 05/12/1996, Causing trade effluent (silage effluent) to discharge into Bodilly Stream. Prosecution Act: WRA91 s85(3)(6) Hearing Date: 5th December 1996 Verdict: Guilty Fine: 500 Cost: 200 Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	504	2	166441 32369
	<b>Nearest Surface Water Feature</b>	A13SE (SE)	0	-	166188 31911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Slurry Store/Waste Tank Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Operational Practise Incident Date: 27th November 1995 Incident Reference: 62011574 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	129	2	166300 31800
6	<b>Pollution Incidents to Controlled Waters</b> Property Type: Other Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Miscellaneous - Foam Note: Act Of God Incident Date: 30th October 1992 Incident Reference: 62003729 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	286	2	165900 31800
7	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Operational Practise Incident Date: 11th January 1993 Incident Reference: 62003766 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Act Of God Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	350	2	166500 31700
7	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor/Inadequate Maintenance Incident Date: 26th June 1991 Incident Reference: 61001599 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Storm Water Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	353	2	166500 31695
7	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Management Control Incident Date: 3rd March 1995 Incident Reference: 62015266 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	357	2	166505 31695
8	<b>Pollution Incidents to Controlled Waters</b> Property Type: Public Highway: Surface Runoff Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Miscellaneous/Other Pollution Type Incident Date: 19th December 1995 Incident Reference: 62016278 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	376	2	166300 32300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Management Control Incident Date: 8th March 1995 Incident Reference: 62015271 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	411	2	166500 31600
10	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Slurry Store/Waste Tank Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Management Control Incident Date: 20th January 1996 Incident Reference: 62016289 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	439	2	166600 31700
11	<b>Pollution Incidents to Controlled Waters</b> Property Type: Other Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Surface Water Note: Non-Water Company Land Drainage Work Incident Date: 7th October 1992 Incident Reference: 62003715 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	762	2	166300 32700
12	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Yards Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Mechanical/Electrical Plant Failure Incident Date: 11th March 1995 Incident Reference: 62009024 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	826	2	165800 32695
12	<b>Pollution Incidents to Controlled Waters</b> Property Type: Cattle (Dairy) Farming: Slurry Store/Waste Tank Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Poor Management Control Incident Date: 19th January 1995 Incident Reference: 62015939 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	831	2	165800 32700
13	<b>Pollution Incidents to Controlled Waters</b> Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, South West Region Pollutant: Animal Waste/Slurry Note: Inadequate Design/Capacity Incident Date: 26th October 1995 Incident Reference: 62009624 Catchment Area: Cober & Looe Pool, Cornwall Receiving Water: Freshwater Stream/River Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	878	2	165700 32700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Cattle (Dairy) Farming: Slurry Store/Waste Tank            Location: Location Description Not Available            Authority: Environment Agency, South West Region            Pollutant: Animal Waste/Slurry            Note: Poor/Inadequate Maintenance            Incident Date: 19th June 1992            Incident Reference: 62003612            Catchment Area: Cober &amp; Looe Pool, Cornwall            Receiving Water: Freshwater Stream/River            Cause of Incident: Overflow            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	963	2	166000 32900
	<p><b>River Quality</b></p> <p>Name: Bodilly Strm            GQA Grade: River Quality A            Reach: Source-Bodilly Mill            Estimated Distance (km): 4.4            Flow Rate: Flow less than 0.31 cumecs            Flow Type: River            Year: 2000</p>	A14NW (NE)	552	2	166639 32253
	<p><b>River Quality</b></p> <p>Name: Bodilly Strm            GQA Grade: River Quality A            Reach: Bodilly Mill-Cober Confluence            Estimated Distance (km): 1            Flow Rate: Flow less than 0.31 cumecs            Flow Type: River            Year: 2000</p>	A14SE (E)	881	2	167080 31777
15	<p><b>River Quality Biology Sampling Points</b></p> <p>Name: Cober            Reach: Bodilly Mill To Cober Confluence            Estimated Distance: 1.00            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 A - Very Good            Year: 2000            GQA Grade: River Quality Biology GQA Grade A - Very 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</p>	A14SE (E)	794	2	167000 31850
16	<p><b>Water Abstractions</b></p> <p>Operator: Mr M D Lawrence            Licence Number: 15/48/232/G/068            Permit Version: 100            Location: Longstone Farm, Trenear - Borehole A            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: Longstone Farm, Trenear, Helston.            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 31st March 1966            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	115	2	166100 31800



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G015  Permit Version: Not Supplied  Location: Higher/Lower &amp; Little, Bosoar, SITHNEY  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 10.40  Yearly Rate (m3): 3816.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A13SE (SE)	355	2	166505 31700
18	<p><b>Water Abstractions</b></p> <p>Operator: Mr G K Treloar  Licence Number: 15/48/232/G/011  Permit Version: 100  Location: Longstone Farm, Sithney - Well A  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: Longstone Farm, Sithney.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd March 1983  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	359	2	165800 32000
19	<p><b>Water Abstractions</b></p> <p>Operator: Mr &amp; Mrs Wainwright  Licence Number: 15/48/232/G/037  Permit Version: 100  Location: Trevellan Farm - Well A  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: Trevellan Farm, Trenear, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st January 1983  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (NE)	424	2	166400 32300
20	<p><b>Water Abstractions</b></p> <p>Operator: Mr J B Williams  Licence Number: 15/49/026/G/163  Permit Version: 100  Location: Higher Cargenwen Farm - Well A  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 Cargenwen Farm, Praze, Camborne.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st March 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	690	2	166100 31200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	<p><b>Water Abstractions</b></p> <p>Operator: Mr &amp; Mrs T &amp; M Blatchford  Licence Number: 15/48/232/G/016  Permit Version: 100  Location: Primrose Farm, Crowan - Well A  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: Primrose Farm, Crowan, Camborne.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th April 1975  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	855	2	165600 32600
22	<p><b>Water Abstractions</b></p> <p>Operator: Cornwall County Council  Licence Number: 15/48/232/G/128  Permit Version: 102  Location: Bodilly Farms, Wendron - 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: Bodilly Farms, Wendron  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 21st November 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	985	2	167060 32400
22	<p><b>Water Abstractions</b></p> <p>Operator: Cornwall County Council  Licence Number: 15/48/232/G/128  Permit Version: 102  Location: Bodilly Farms, Wendron - Borehole  Authority: Environment Agency, South West Region  Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Bodilly Farms, Wendron.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 21st November 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	985	2	167060 32400
	<p><b>Water Abstractions</b></p> <p>Operator: Mr &amp; Mrs D &amp; M Andrew  Licence Number: 15/48/232/G/118  Permit Version: 100  Location: Grassington Farm - Borehole A  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: Grassington Farm, Wendron, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 21st July 1983  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A19NW (NE)	1006	2	166700 32800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G052  Permit Version: Not Supplied  Location: Menamber Farm , Nancegollan, HELSTON, Cornwall  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 0.90  Yearly Rate (m3): 193.00  Details: Licence Lapsed 01.07.85; Nov 1 To May 31  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>	A17SW (W)	1018	2	165200 32300
	<p><b>Water Abstractions</b></p> <p>Operator: AGRICULTURAL LICENCE BUT  Licence Number: 1548232G025  Permit Version: Not Supplied  Location: Releath Vean, Praze, CAMBORNE  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 2.30  Yearly Rate (m3): 827.00  Details: Poss Ref 03400901400038 Poss Ref 034001900014 See Also S034-Releath  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>	A23SW (N)	1051	2	166100 33000
	<p><b>Water Abstractions</b></p> <p>Operator: MR H J J RICHARDS  Licence Number: 1548232G109  Permit Version: Not Supplied  Location: Bodilly Farm , And 3 Other Farms  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Spring  Daily Rate (m3): 20.50  Yearly Rate (m3): 3318.00  Details: Lapsed 31/3/91  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>	A19NW (NE)	1058	2	166800 32795
	<p><b>Water Abstractions</b></p> <p>Operator: MR H J J RICHARDS  Licence Number: 1548232G109  Permit Version: Not Supplied  Location: Bodilly Farm , And 3 Other Farms  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Spring  Daily Rate (m3): 20.50  Yearly Rate (m3): 7466.00  Details: Lapsed 31/3/91  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>	A19NW (NE)	1062	2	166800 32800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Mr J G Richards  Licence Number: 15/48/232/G/050  Permit Version: 100  Location: Wheal Mount Farm - Well A  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: Wheal Mount Farm, Sithney, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st September 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3NE (S)	1082	2	166200 30800
	<p><b>Water Abstractions</b></p> <p>Operator: De&amp;Mr Marshall  Licence Number: 15/48/232/G/127  Permit Version: 101  Location: Releath Farm - Well C  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: Releath Farm, Crowan.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st January 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A23SW (N)	1152	2	166080 33100
	<p><b>Water Abstractions</b></p> <p>Operator: Misses S &amp; M Emmett  Licence Number: 15/48/232/G/127  Permit Version: 100  Location: Releath Farm - Well C  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: Releath Farm, Crowan.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd August 1997  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A23SW (N)	1152	2	166080 33100
	<p><b>Water Abstractions</b></p> <p>Operator: Mr F G Gluyas  Licence Number: 15/48/232/G/048  Permit Version: 100  Location: Releath Farm - Well B  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: Releath Farm, Crowan.  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>	A23SE (N)	1158	2	166300 33100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Ms C &amp; N Cardew  Licence Number: 15/48/232/G/059  Permit Version: 100  Location: United Farm - Borehole A  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: United Farm, Sithney.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 19th December 1988  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A23SW (N)	1178	2	165900 33100
	<p><b>Water Abstractions</b></p> <p>Operator: MR S WILDREN  Licence Number: 1548232G035  Permit Version: Not Supplied  Location: Bluepool Farm , NANCEGOLLAN  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 0.90  Yearly Rate (m3): 332.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A17NW (NW)	1279	2	165300 32900
	<p><b>Water Abstractions</b></p> <p>Operator: Mr P W Coulston  Licence Number: 15/48/232/G/083  Permit Version: 101  Location: Creilly Barton Farm - Well A  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: Creilly Barton Farm, Wendron, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 24th March 2005  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A15NW (E)	1296	2	167500 32000
	<p><b>Water Abstractions</b></p> <p>Operator: Mr W J Coulston  Licence Number: 15/48/232/G/083  Permit Version: 100  Location: Creilly Barton Farm - Well A  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: Creilly Barton Farm, Wendron, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st March 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A15NW (E)	1296	2	167500 32000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S009  Permit Version: Not Supplied  Location: Tregathenan Reservoir, Tregathenan, HELSTON, Cornwall  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: Reservoir/Pond  Daily Rate (m3): 454.50  Yearly Rate (m3): 163636.00  Details: Tregathenan Res; 00091m0020000g  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Manually positioned to the address or location</p>	A2NE (SW)	1311	2	165571 30724
	<p><b>Water Abstractions</b></p> <p>Operator: Mr D J Care  Licence Number: 15/48/232/G/122  Permit Version: 100  Location: Boquio Farm - Borehole A  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: Boquio Farm, Wendron, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 16th January 1989  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A24SE (NE)	1341	2	167000 33000
	<p><b>Water Abstractions</b></p> <p>Operator: Mr &amp; Mrs G J Steel  Licence Number: 15/48/232/G/006  Permit Version: 100  Location: Lower Boscadjack Farm - Well A  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: Lower Boscadjack Farm, Sithney.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 20th October 1987  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SW (SE)	1349	2	167300 31100
	<p><b>Water Abstractions</b></p> <p>Operator: Mr B V Thomas  Licence Number: 15/48/232/G/051  Permit Version: 100  Location: Lower Boscadjack Farm - Well B  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: Lower Boscadjack, Sithney, Helston  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 10m</p>	A10SW (SE)	1349	2	167300 31100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Mr B H V Thomas  Licence Number: 15/48/232/G/021  Permit Version: 100  Location: Little Boscadjack Farm - Well A  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: Little Boscadjack, Sithney, Helston.  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>	A10SW (SE)	1380	2	167400 31200
	<p><b>Water Abstractions</b></p> <p>Operator: Mr C J Brown  Licence Number: 15/48/232/G/103  Permit Version: 101  Location: Higher Trannack Farm - Well A  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 Trannack Farm, Sithney, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 9th March 2001  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3SE (S)	1382	2	166200 30500
	<p><b>Water Abstractions</b></p> <p>Operator: Mr W J Johns  Licence Number: 15/48/232/G/121  Permit Version: 100  Location: Tregathenan Farm - Borehole A  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: Tregathenan Farm, Sithney, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 2nd March 1988  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A2NW (SW)	1418	2	165400 30700
	<p><b>Water Abstractions</b></p> <p>Operator: Mr L B Cattran  Licence Number: 15/48/232/S/011  Permit Version: 100  Location: Prospidnick Farm - Adit Discharge  Authority: Environment Agency, South West Region  Abstraction: General Farming And Domestic  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Penpraze Farm, Sithney.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 8th January 1993  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A6SE (SW)	1449	2	164900 31200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Mr L B Cattran Licence Number: 15/48/232/S/011 Permit Version: 100 Location: Prospidnick Farm - Adit Discharge Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Prospidnick Farm, Sithney. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th January 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1449	2	164900 31200
	<b>Water Abstractions</b> Operator: Mr L B Cattran Licence Number: 15/48/232/S/011 Permit Version: 100 Location: Prospidnick Farm - Adit Discharge Authority: Environment Agency, South West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Penpraze Farm, Sithney. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th January 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1449	2	164900 31200
	<b>Water Abstractions</b> Operator: Mr L B Cattran Licence Number: 15/48/232/S/011 Permit Version: 100 Location: Prospidnick Farm - Adit Discharge Authority: Environment Agency, South West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th January 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1449	2	164900 31200
	<b>Water Abstractions</b> Operator: SOUTH WEST WATER SVS LTD Licence Number: 1548232S009 Permit Version: Not Supplied Location: Tregathenan Reservoir Authority: Environment Agency, South West Region Abstraction: Public Water Supply (South West Water) Abstraction Type: Not Supplied Source: Reservoir/Pond Daily Rate (m3): 454.50 Yearly Rate (m3): 163636.00 Details: Tregathenan Reservoir 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	A2NW (SW)	1454	2	165500 30600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Mrs J Williams  Licence Number: 15/48/232/G/039  Permit Version: 100  Location: Wheal Rose Farm - Well A  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: Wheal Rose Farm, Prospidnick.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 6th August 1975  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A11SW (W)	1456	2	164700 31900
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S009  Permit Version: Not Supplied  Location: Tregathenan Reservoir  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: Reservoir/Pond  Daily Rate (m3): 454.50  Yearly Rate (m3): 27273.00  Details: Tregathenan Reservoir  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>	A2NW (SW)	1458	2	165500 30595
	<p><b>Water Abstractions</b></p> <p>Operator: MR S WILDREN  Licence Number: 1548232G027  Permit Version: Not Supplied  Location: Bluepool Farm , NANCEGOLLAN  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Borehole  Daily Rate (m3): 0.90  Yearly Rate (m3): 284.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NW)	1463	2	164900 32700
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232G085  Permit Version: Not Supplied  Location: Chyreen Shaft  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: Shaft  Daily Rate (m3): 204.50  Yearly Rate (m3): 55296.00  Details: Depth 11M  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>	A2SE (S)	1466	2	165700 30500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: T A Nicholls  Licence Number: 15/48/232/G/053  Permit Version: 100  Location: Prospect Farm - 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: Prospect Farm, Sithney.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 2nd March 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A3SE (S)	1482	2	166200 30400
	<p><b>Water Abstractions</b></p> <p>Operator: Mr H Harrison  Licence Number: 15/48/232/G/53  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 0  Yearly Rate (m3): 164  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3SE (S)	1482	2	166200 30400
	<p><b>Water Abstractions</b></p> <p>Operator: Unknown Operator  Licence Number: 1548232G053  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 0.50  Yearly Rate (m3): 164.00  Details: Borehole Depth :7  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>	A3SE (S)	1487	2	166205 30395
	<p><b>Water Abstractions</b></p> <p>Operator: Mr J G Coulston  Licence Number: 15/48/232/G/061  Permit Version: 100  Location: Chenall Farm Of Creilly  Authority: Environment Agency, South West Region  Abstraction: General Farming And Domestic  Abstraction Type: Not Supplied  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Chenall Farm, Creilly.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st March 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A15SE (E)	1492	2	167700 31900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S008  Permit Version: Not Supplied  Location: Releath Stream  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 1363.60  Yearly Rate (m3): 500000.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SW (SE)	1510	2	167495 31105
	<p><b>Water Abstractions</b></p> <p>Operator: Unknown Operator  Licence Number: 1548232S008  Permit Version: Not Supplied  Location: Releath Stream  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 1363.00  Yearly Rate (m3): 497490.00  Details: Releath Stream; Variation After Works Done  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>	A10SW (SE)	1514	2	167500 31105
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S001  Permit Version: Not Supplied  Location: R Cober At Wendron  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 909.10  Yearly Rate (m3): 227273.00  Details: River Cober  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>	A10SW (SE)	1517	2	167500 31100
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S001  Permit Version: Not Supplied  Location: River Cober At, WENDRON  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 7727.30  Yearly Rate (m3): 1363636.00  Details: River Cober  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SW (SE)	1518	2	167505 31105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S001  Permit Version: Not Supplied  Location: R Cober At Wendron  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 1818.20  Yearly Rate (m3): 545455.00  Details: River Cober  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>	A10SW (SE)	1519	2	167500 31095
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S001  Permit Version: Not Supplied  Location: River Cober At, WENDRON  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 7727.30  Yearly Rate (m3): 1590909.00  Details: River Cober  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SW (SE)	1521	2	167505 31100
	<p><b>Water Abstractions</b></p> <p>Operator: SOUTH WEST WATER SVS LTD  Licence Number: 1548232S001  Permit Version: Not Supplied  Location: River Cober At, WENDRON  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply (South West Water)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 4545.50  Yearly Rate (m3): 909091.00  Details: River Cober  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A10SW (SE)	1523	2	167505 31095
	<p><b>Water Abstractions</b></p> <p>Operator: Messrs G R A Thompson  Licence Number: 15/48/232/S/013  Permit Version: 100  Location: Fish Farm At Boscadjack, Sithney  Authority: Environment Agency, South West Region  Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 2618  Yearly Rate (m3): 955769  Details: Boscadjack Fish Farm  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 10th September 1997  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A5NW (SE)	1550	2	167400 30900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Mr W H Roskilly  Licence Number: 15/48/232/G/070  Permit Version: 100  Location: Releath Farm - Well A  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: Releath Farm, Praze, Camborne  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 31st March 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A23NW (N)	1551	2	166100 33500
	<p><b>Water Abstractions</b></p> <p>Operator: GC,RGH,AL &amp; CD THOMPSON  Licence Number: 1548232S013  Permit Version: Not Supplied  Location: Fish Farm At Boscadjack, SITHNEY  Authority: Environment Agency, South West Region  Abstraction: Agriculture (Pisciculture)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 2618.20  Yearly Rate (m3): 955636.00  Details: River Cob  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>	A5NW (SE)	1553	2	167400 30895
	<p><b>Water Abstractions</b></p> <p>Operator: GC,RGH,AL &amp; CD THOMPSON  Licence Number: 1548232S013  Permit Version: Not Supplied  Location: Fish Farm At Boscadjack, SITHNEY  Authority: Environment Agency, South West Region  Abstraction: Agriculture (Pisciculture)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 2618.50  Yearly Rate (m3): 955769.00  Details: R Cober (non-contiguous) 26.3 Litres/sec (0.5 Mgd)  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>	A5NW (SE)	1557	2	167405 30895
	<p><b>Water Abstractions</b></p> <p>Operator: South West Water Services Ltd  Licence Number: 15/48/232/S/014  Permit Version: 100  Location: R Cober At Wendron  Authority: Environment Agency, South West Region  Abstraction: Public Water Supply: Potable Water Supply - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: River Cober (Wendron Intake)  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 14th October 1985  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SW (SE)	1571	2	167500 31000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G100  Permit Version: Not Supplied  Location: Trannack Farm , SITHNEY  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 0.10  Yearly Rate (m3): 4.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3SE (S)	1582	2	166200 30300
	<p><b>Water Abstractions</b></p> <p>Operator: Mr A R Croft  Licence Number: 15/48/232/G/054  Permit Version: 101  Location: Borehole @ Prospect Farm, Sithney  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: Prospect Farm, Trannack, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 11th November 2002  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3SW (S)	1595	2	166000 30300
	<p><b>Water Abstractions</b></p> <p>Operator: T A Nicholls  Licence Number: 15/48/232/G/054  Permit Version: 100  Location: Prospect Farm - Well B  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: Prospect Farm, Trannack, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 2nd March 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A3SW (S)	1595	2	166000 30300
	<p><b>Water Abstractions</b></p> <p>Operator: Mr R E Lawrance  Licence Number: 15/48/232/G/055  Permit Version: 100  Location: Boscadjack Farm - Well A  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: Boscadjack Farm, Sithney, Helston.  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>	A4SE (SE)	1597	2	167000 30500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Cornwall Council  Licence Number: 15/48/232/S/012  Permit Version: 101  Location: River Cober At Helston  Authority: Environment Agency, South West Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Very Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Gully Cleaning, Helston Council Roads. Means Of Meas. By Assessment Of Flow Through Pipe At Water-Ma-Trout Bifurcation Point  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 15th September 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (SE)	1603	2	167600 31100
	<p><b>Water Abstractions</b></p> <p>Operator: Kerrier District Council  Licence Number: 15/48/232/S/012  Permit Version: 100  Location: Sreets Within The Borough Of Helston  Authority: Environment Agency, South West Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Very Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Gully Cleaning, Helston Council Roads. Means Of Meas. By Assessment Of Flow Through Pipe At Water-Ma-Trout Bifurcation Point  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 17th May 1978  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (SE)	1603	2	167600 31100
	<p><b>Water Abstractions</b></p> <p>Operator: Kerrier District Council  Licence Number: 15/48/232/S/012  Permit Version: 100  Location: River Cober At Helston  Authority: Environment Agency, South West Region  Abstraction: Other Industrial/Commercial/Public Services: General Use (Very Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Gully Cleaning, Helston Council Roads. Means Of Meas. By Assessment Of Flow Through Pipe At Water-Ma-Trout Bifurcation Point  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 17th May 1978  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (SE)	1603	2	167600 31100
	<p><b>Water Abstractions</b></p> <p>Operator: KERRIER DISTRICT COUNCIL  Licence Number: 1548232S012  Permit Version: Not Supplied  Location: Gully Cleaning, Helston Council Roads, HELSTON  Authority: Environment Agency, South West Region  Abstraction: Private Water Supply (Amenity Etc)  Abstraction Type: Not Supplied  Source: River  Daily Rate (m3): 795.50  Yearly Rate (m3): 223977.00  Details: Gully Cleansing; River Cober  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>	A10SE (SE)	1606	2	167600 31095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G123  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, South West Region  Abstraction: Private Water Supplies (Domestic)  Abstraction Type: Not Supplied  Source: Spring  Daily Rate (m3): 54.50  Yearly Rate (m3): 19548.00  Details: Licences Set Up After 1965 But Now Cancelled  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>	A2SW (SW)	1677	2	165400 30400
	<p><b>Water Abstractions</b></p> <p>Operator: Mr J L Stephens  Licence Number: 15/48/232/G/046  Permit Version: 100  Location: Creilly Farm - Well A  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: Creilly Farm, Wendron, Helston.  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>	(E)	1719	2	167900 32200
	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G042  Permit Version: Not Supplied  Location: New Inn, WENDRON  Authority: Environment Agency, South West Region  Abstraction: Private Water Supply (Holiday Recreation/Hotels Etc)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 1.40  Yearly Rate (m3): 500.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A10SE (SE)	1780	2	167800 31100
	<p><b>Water Abstractions</b></p> <p>Operator: HAS BEEN ALLOCATED FOR  Licence Number: 1548232G047  Permit Version: Not Supplied  Location: Trannack Farm , SITHNEY  Authority: Environment Agency, South West Region  Abstraction: Agriculture (General)  Abstraction Type: Not Supplied  Source: Well  Daily Rate (m3): 9.00  Yearly Rate (m3): 3273.00  Details: Not Supplied  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(S)	1785	2	166100 30100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Mr P M Powell  Licence Number: 15/48/232/G/088  Permit Version: 100  Location: Higher Creilly Farm - Well A  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 Creilly Farm, Wendron, Helston.  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 21st November 1975  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(E)	1795	2	167900 32500
	<p><b>Water Abstractions</b></p> <p>Operator: Western Hydro Ltd  Licence Number: Sw/048/0232/001/R01  Permit Version: 2  Location: Trelubbas Wartha, Wendron  Authority: Environment Agency, South West Region  Abstraction: Production Of Energy: Hydroelectric Power Generation  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Lands At Trelubbas Wartha, Wendron  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 16th May 2018  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1847	2	166969 30203
	<p><b>Water Abstractions</b></p> <p>Operator: Western Hydro Ltd  Licence Number: Sw/048/0232/001/R01  Permit Version: 1  Location: Trelubbas Wartha, Wendron  Authority: Environment Agency, South West Region  Abstraction: Production Of Energy: Hydroelectric Power Generation  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Lands At Trelubbas Wartha, Wendron  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2015  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1847	2	166969 30203
	<p><b>Water Abstractions</b></p> <p>Operator: Western Hydro Ltd  Licence Number: Sw/048/0232/001  Permit Version: 1  Location: Trelubbas Wartha, Wendron  Authority: Environment Agency, South West Region  Abstraction: Production Of Energy: Hydroelectric Power Generation  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Lands At Trelubbas Wartha, Wendron  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 1st April 2010  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1847	2	166969 30203

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Western Hydro Ltd Licence Number: 15/48/232/S/028 Permit Version: 102 Location: Trelubbas Wartha, Wendron Authority: Environment Agency, South West Region Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Trelubbas Wartha, Wendron Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1852	2	166930 30180
	<b>Water Abstractions</b> Operator: Western Hydro Ltd Licence Number: 15/48/232/S/028 Permit Version: 101 Location: Trelubbas Wartha, Wendron Authority: Environment Agency, South West Region Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Trelubbas Wartha, Wendron Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1852	2	166930 30180
	<b>Water Abstractions</b> Operator: Western Hydro Ltd Licence Number: 15/48/232/S/027 Permit Version: 101 Location: Trelubbas Wartha, Wendron Authority: Environment Agency, South West Region Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Trelubbas Wartha, Wendron Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1852	2	166930 30180
	<b>Water Abstractions</b> Operator: Western Hydro Ltd Licence Number: 15/48/232/S/023 Permit Version: 101 Location: Trelubbas Wartha, Wendron Authority: Environment Agency, South West Region Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Trelubbas, Wartha, Wendron Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th July 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1852	2	166930 30180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: WESTERN HYDRO LTD Licence Number: 1548232S023 Permit Version: Not Supplied Location: Lands At Trelubbas, Wartha, WENDRON Authority: Environment Agency, South West Region Abstraction: Private Water Supply ( Water Power) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 58752.00 Yearly Rate (m3): 14832432.00 Details: Power Generation; Hc Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1859	2	166935 30175
	<b>Water Abstractions</b> Operator: Mr D H Dunstan Licence Number: 15/48/232/G/098 Permit Version: 100 Location: Trannack Farm - Well A 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: Tregrannick Farm, Sithney, Helston. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1893	2	166000 30000
	<b>Water Abstractions</b> Operator: HAS BEEN ALLOCATED FOR Licence Number: 1548232G084 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Adit Daily Rate (m3): 272.70 Yearly Rate (m3): 45461.00 Details: Licences Set Up After 1965 But Now Cancelled 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	(SW)	1949	2	165200 30200
	<b>Water Abstractions</b> Operator: Mr E J Lawrence Licence Number: 15/48/232/G/096 Permit Version: 100 Location: Trenear Farm - Well A 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: Trenear Farm, Wendron, Helston. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1957	2	168100 31400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Mr C Basher Licence Number: 15/49/252/G/023 Permit Version: 100 Location: Heatherview, Crowan - 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: Heatherview, Releath, Camborne 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	A21NE (NW)	1995	2	164900 33500
	<b>Groundwater Vulnerability Map</b> Combined Classification: Secondary Bedrock Aquifer - High Vulnerability 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: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (N)	0	3	166180 31916
	<b>Groundwater Vulnerability - Soluble Rock Risk</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13SW (N)	0	3	166180 31916
	<b>Superficial Aquifer Designations</b> No Data Available				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
23	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (SE)	0	4	166189 31909
24	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 201.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (SE)	7	4	166211 31888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 197.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13NE (NE)	44	4	166231 31949
26	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (E)	152	4	166354 31856
27	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (E)	155	4	166356 31851
28	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (E)	171	4	166368 31838
29	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 114.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (SE)	174	4	166370 31834
30	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 105.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (SE)	202	4	166334 31731
31	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 359.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13SE (SE)	273	4	166439 31748
32	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 58.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13NW (NW)	280	4	165889 32037
33	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A13NW (NW)	286	4	165899 32077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SW (NW)	472	4	165965 32382
35	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 407.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SW (N)	484	4	166020 32414
36	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SW (N)	486	4	165999 32410
37	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SW (N)	487	4	166013 32415
38	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SW (N)	490	4	165991 32411
39	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 395.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A19SW (NE)	566	4	166613 32306
40	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 86.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NW (NE)	590	4	166722 32194
41	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 337.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NW (NE)	590	4	166722 32194
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 179.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SE (NE)	617	4	166470 32484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SE (NE)	624	4	166481 32486
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SE (NE)	627	4	166484 32487
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 117.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SE (NE)	630	4	166488 32489
46	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 321.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SW (SE)	631	4	166773 31617
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 233.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NW (E)	637	4	166840 31972
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18SE (N)	660	4	166345 32584
49	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 72.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	666	4	166315 32598
50	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 117.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	668	4	166339 32594
51	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	669	4	166272 32610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	674	4	166239 32619
53	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NW (NE)	675	4	166787 32252
54	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	675	4	166212 32623
55	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	675	4	166272 32616
56	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	675	4	166272 32616
57	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	680	4	166203 32629
58	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NW (NE)	688	4	166809 32239
59	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 196.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NE (E)	713	4	166918 31960
60	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 133.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NE (E)	713	4	166918 31960



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 348.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A19SW (NE)	734	4	166523 32588
62	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A19SW (NE)	734	4	166523 32588
63	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 64.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	735	4	166941 31840
64	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	738	4	166267 32681
65	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 335.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (N)	743	4	166263 32687
66	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NE (E)	748	4	166915 32141
67	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NE (E)	748	4	166915 32141
68	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 22.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NE (NE)	749	4	166505 32616
69	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 2	A18NE (NE)	751	4	166513 32613

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 27.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 2	A18NE (NE)	756	4	166517 32617
71	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 55.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14NE (E)	761	4	166920 32170
72	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 2	A18NE (NE)	777	4	166518 32641
73	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	797	4	167001 31826
74	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 156.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 2	A18NE (NE)	801	4	166515 32668
75	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	806	4	167010 31818
76	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 122.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A17NE (NW)	809	4	165805 32679
77	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	809	4	167013 31817
78	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A17NE (NW)	822	4	165745 32661

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	824	4	167026 31807
80	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 140.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A17NE (NW)	824	4	165739 32660
81	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 71.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A17NE (NW)	835	4	165783 32696
82	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 179.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	844	4	167038 31747
83	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A17NE (NW)	845	4	165824 32727
84	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	847	4	165852 32740
85	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 142.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	850	4	165860 32747
86	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 172.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	854	4	167048 31747
87	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	905	4	165981 32837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	907	4	165971 32838
89	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 74.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	910	4	165957 32838
90	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 52.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	914	4	165865 32816
91	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 452.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A18NW (N)	932	4	165893 32844
92	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 234.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 2	A19NW (NE)	948	4	166630 32774
93	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 284.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	962	4	167124 31604
94	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	962	4	167124 31604
95	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cober and Porthleven Primacy: 1	A14SE (E)	964	4	167129 31614

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Kerrier District Council - Has no landfill data to supply		0	5	166180 31916
	<b>Local Authority Landfill Coverage</b> Name: Cornwall County Council - Had landfill data but passed it to the relevant environment agency		0	6	166180 31916
96	<b>Potentially Infilled Land (Non-Water)</b> Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A14NW (E)	650	-	166853 31976
97	<b>Potentially Infilled Land (Non-Water)</b> Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A12NW (NW)	788	-	165422 32237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Unnamed Igneous Intrusion, Carboniferous To Permian	A13SW (N)	0	1	166180 31916
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (N)	0	1	166180 31916
	<b>BGS Estimated Soil Chemistry</b> 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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	49	1	166180 32000
	<b>BGS Estimated Soil Chemistry</b> 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	A18SW (N)	457	1	165996 32378
	<b>BGS Estimated Soil Chemistry</b> 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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	655	1	165500 31916
	<b>BGS Estimated Soil Chemistry</b> 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	A14SW (SE)	670	1	166813 31611
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	700	1	166900 32000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A17NE (NW)	810	1	165744 32648
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A7SE (SW)	835	1	165757 31164
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A19SE (NE)	869	1	167000 32261
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;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>	A7NW (SW)	881	1	165361 31546
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A17NE (NW)	903	1	165591 32654
	<p><b>BGS Estimated Soil Chemistry</b></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 &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A8SW (S)	904	1	166000 31000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	<b>BGS Recorded Mineral Sites</b> Site Name: Boscadjack Quarry Location: Coverack Bridges, Helston, Cornwall Source: British Geological Survey, National Geoscience Information Service Reference: 22923 Type: Opencast <b>Status: Ceased</b> Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous, Permian Geology: Carnmenellis Intrusion (Carnmenellis Granite) Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	633	1	166580 31375
99	<b>BGS Recorded Mineral Sites</b> Site Name: Wheal Fursden Location: Treneal, Helston, Cornwall Source: British Geological Survey, National Geoscience Information Service Reference: 81468 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Tin Positional Accuracy: Located by supplier to within 10m	A14SE (E)	723	1	166930 31859
100	<b>BGS Recorded Mineral Sites</b> Site Name: Wheal Christopher Location: Nancegollan, Helston, Cornwall Source: British Geological Survey, National Geoscience Information Service Reference: 81466 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Tin Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	771	1	166572 32454
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Mining Instability</b> Mining Evidence: Conclusive Metaliferous Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (N)	0	-	166180 31916
	<b>Man-Made Mining Cavities</b> Easting: 166500 Northing: 31800 Distance: 575 Quadrant Reference: A12 Quadrant Reference: SE Bearing Ref: W Cavity Type: Mine Disused Commodity: Tin Solid Geology Detail: Carnmenellis Intrusion Superficial Geology No Details Detail:	A12SE (W)	575	7	166500 31800
	<b>Man-Made Mining Cavities</b> Easting: 166900 Northing: 31700 Distance: 720 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Tin Mine-Details Unknown Commodity: Tin Solid Geology Detail: Granite Superficial Geology Head Detail:	A14SE (E)	720	7	166900 31700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Man-Made Mining Cavities</b> Easting: 165500 Northing: 32400 Distance: 795 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Tin Mine-Details Unknown Commodity: Tin Solid Geology Detail: Granite Superficial Geology Head Detail:	A17SW (NW)	795	7	165500 32400
	<b>Man-Made Mining Cavities</b> Easting: 165400 Northing: 32300 Distance: 833 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Unknown Mine Commodity: Unknown Solid Geology Detail: Granite Superficial Geology Head Detail:	A17SW (NW)	833	7	165400 32300
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Higher probability radon area (more than 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	166180 31916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	<b>Contemporary Trade Directory Entries</b> Name: Mike Atkinson Location: Trenear, Helston, Cornwall, TR13 0HE Classification: Engineers - General <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	773	-	165607 32494
102	<b>Points of Interest - Manufacturing and Production</b> Name: Quarry (Disused) Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9NW (SE)	628	8	166566 31372
102	<b>Points of Interest - Manufacturing and Production</b> Name: Quarry (Disused) Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	647	8	166607 31379
103	<b>Points of Interest - Manufacturing and Production</b> Name: Wheal Christopher Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	712	8	165755 32538
103	<b>Points of Interest - Manufacturing and Production</b> Name: Wheal Christopher Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	722	8	165742 32541
104	<b>Points of Interest - Manufacturing and Production</b> Name: Shaft Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14SE (E)	763	8	166955 31741
104	<b>Points of Interest - Manufacturing and Production</b> Name: Wheal Fursden (Disused) Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	767	8	166969 31804
104	<b>Points of Interest - Manufacturing and Production</b> Name: Shaft Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	768	8	166959 31736
104	<b>Points of Interest - Manufacturing and Production</b> Name: Wheal Fursden (Disused) Location: TR13 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	772	8	166974 31806
105	<b>Points of Interest - Manufacturing and Production</b> Name: Solar Panel Location: TR13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	865	8	167002 32245
106	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: TR13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	968	8	165300 31473
106	<b>Points of Interest - Manufacturing and Production</b> Name: Cornish Turf Location: High Park, Prospidnick, Helston, TR13 0RY Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A7NW (SW)	995	8	165277 31459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	<p><b>Points of Interest - Public Infrastructure</b></p> <p>Name: Slurry Bed            Location: TR13            Category: Infrastructure and Facilities            Class Code: Waste Storage, Processing and Disposal            Positional Accuracy: Positioned to an adjacent address or location</p>	A12NE (NW)	346	8	165837 32085

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	<b>Nitrate Vulnerable Zones</b> Name: The Loe Eutrophic Lake Nvz Description: Eutrophic Water Source: Environment Agency, Head Office	A13SW (N)	0	3	166180 31916
109	<b>Nitrate Vulnerable Zones</b> Name: Cober Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (SW)	343	3	165867 31737

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Penwith District Council (now part of Cornwall Council) - Environmental Health Department Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Environment Agency - Head Office Cornwall Council - Environmental Health Department	December 2008 June 2009 June 2020 October 2017	Not Applicable  Annually Annually
<b>Discharge Consents</b> Environment Agency - South West Region	October 2022	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - South West Region	March 2013	
<b>Integrated Pollution Controls</b> Environment Agency - South West Region	January 2009	
<b>Integrated Pollution Prevention And Control</b> Environment Agency - South West Region	July 2022	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Penwith District Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	December 2008 December 2008 September 2014	Not Applicable Not Applicable Variable
<b>Local Authority Pollution Prevention and Controls</b> Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Penwith District Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	December 2008 December 2008 September 2014	Not Applicable Not Applicable Annually
<b>Local Authority Pollution Prevention and Control Enforcements</b> Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Penwith District Council (now part of Cornwall Council) - Environmental Health Department Cornwall Council - Environmental Health Department	December 2008 December 2008 September 2014	Not Applicable Not Applicable Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	September 2022	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - South West Region	September 1999	
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - South West Region	July 2015	
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - South West Region	March 2013	
<b>Registered Radioactive Substances</b> Environment Agency - South West Region	June 2016	As notified
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>Substantiated Pollution Incident Register</b> Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	July 2022 July 2022	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - South West Region	October 2022	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - South West Region	October 2017	
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	September 2022	Bi-Annually
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	October 2022	Quarterly
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	May 2018	Annually
<b>Surface Water Suitability</b> Environment Agency - Head Office	February 2016	Annually
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	November 2002	As notified
<b>Historical Landfill Sites</b> Environment Agency - Head Office	November 2022	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - South West Region	January 2009	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	October 2022 October 2022	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	July 2022 July 2022	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Cornwall County Council (now part of Cornwall Council) Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Penwith District Council (now part of Cornwall Council)	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Cornwall County Council (now part of Cornwall Council) Kerrier District Council (now part of Cornwall Council) - Environmental Health Department Penwith District Council (now part of Cornwall Council)	October 2018 October 2018 October 2018	
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	
<b>Registered Landfill Sites</b> Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	March 2006 March 2006	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - South West Region - Cornwall Area Environment Agency - South West Region - Devon and Cornwall Area	April 2018 April 2018	
<b>Registered Waste Treatment or Disposal Sites</b> 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
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	January 2022	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	August 2001	
<b>Planning Hazardous Substance Enforcements</b> Cornwall County Council (now part of Cornwall Council) Kerrier District Council (now part of Cornwall Council) Cornwall Council - Planning Department Kerrier District Council (now part of Cornwall Council) - Planning Department Penwith District Council (now part of Cornwall Council)	January 2009 May 2007 May 2016 October 2008 September 2008	Annual Rolling Update Not Applicable Variable Not Applicable Not Applicable
<b>Planning Hazardous Substance Consents</b> Cornwall County Council (now part of Cornwall Council) Kerrier District Council (now part of Cornwall Council) Cornwall Council - Planning Department Kerrier District Council (now part of Cornwall Council) - Planning Department Penwith District Council (now part of Cornwall Council)	January 2009 May 2007 May 2016 October 2008 September 2008	Annual Rolling Update Not Applicable Variable Annual Rolling Update Not Applicable
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	As notified
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	December 2015	As notified
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	June 1998	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	As notified
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	September 2022	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	September 2022	Annually



Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	October 2022	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	August 2022	Quarterly
<b>Gas Pipelines</b> National Grid	October 2021	Bi-Annually
<b>Points of Interest - Commercial Services</b> PointX	December 2022	Quarterly
<b>Points of Interest - Education and Health</b> PointX	December 2022	Quarterly
<b>Points of Interest - Manufacturing and Production</b> PointX	December 2022	Quarterly
<b>Points of Interest - Public Infrastructure</b> PointX	December 2022	Quarterly
<b>Points of Interest - Recreational and Environmental</b> PointX	December 2022	Quarterly
<b>Underground Electrical Cables</b> National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	February 2021	Bi-Annually
<b>Areas of Adopted Green Belt</b> Cornwall Council - Planning Department Kerrier District Council (now part of Cornwall Council) - Planning Department Penwith District Council (now part of Cornwall Council)	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
<b>Areas of Unadopted Green Belt</b> Cornwall Council - Planning Department Kerrier District Council (now part of Cornwall Council) - Planning Department Penwith District Council (now part of Cornwall Council)	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
<b>Areas of Outstanding Natural Beauty</b> Natural England	August 2022	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2021	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	January 2021	Bi-Annually
<b>National Parks</b> Natural England	February 2018	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2021	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2021	Bi-Annually
<b>World Heritage Sites</b> Historic England	July 2022	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 NATIONAL GEOSCIENCE CENTRE
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATIONAL INSTITUTE FOR RESEARCH IN ECOSYSTEMS
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> 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	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	<b>Kerrier District Council (now part of Cornwall Council) - Environmental Health Department</b> County Hall, Treyew Road, Truro, Cornwall, TR1 3AY	Telephone: 0300 1234 100 Email: enquiries@cornwall.gov.uk Website: www.cornwall.gov.uk
6	<b>Cornwall County Council (now part of Cornwall Council)</b> County Hall, Treyew Road, Truro, Cornwall, TR1 3AY	Telephone: 0300 1234 100 Email: enquiries@cornwall.gov.uk Website: www.cornwall.gov.uk
7	<b>Stantec UK Ltd</b> Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	<b>Historic England</b> 1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST	Telephone: 0370 333 0607 Email: customers@historicengland.org.uk Website: www.historicengland.org.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> 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.



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## APPENDIX C

### Historical Maps

# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

	Gravel Pt		Sand Pt		Other Pts
	Quarry		Shingle		Orchard
	Cobble		Roads		Marsh
	Mixed Wood		Woodland		Broadwood
	Turf		Rough Pasture		
	Arrow denotes low of water		Instrumental Station		
	Site of Antiquity		Bench Mark		
	Pump, Quilt Tree, Signal Post		Well, Spring, Boundary Post		
	-285 Surface Level				
	Scaleless Contour		Instrumental Contour		
	Main Road		Minor Road		
	Banked Road		Railway 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 Borough Boundary (Scotland)				
	Water District Boundary				
	Civil Parish Boundary				

## Ordnance Survey Plan 1:10,000

	Chalk Pt, Clay Pt or Quartz		Gravel Pt
	Sand Pt		Crushed Pt or Quartz
	Refuse or Slag Heap		Lake, Loch or Pond
	Dune		Boulder
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Heath		Rough Grass and Saltings
	Main Road		Sallings
	Making		Flow of Water
	Glasshouse		Slings
	Spring Masonry		Sand
	Fyln		Electric Transmission Line
	Fyln		
	Colly		Standard Gauge Multiple Track
	Colly		Standard Gauge Single Track
	Colly		Siding, Trench or Mineral Line
	Colly		Narrow Gauge
	Geographical County		
	Administrative County Borough or County of City		
	County Borough Boundary (England or Wales) District, Borough or Town of Council		
	Borough, Range, County Community or County Borough Boundary (Scotland)		
	Civil Parish		
	Boundary (Name or Stone)		Public Well
	Church		Public Building
	Church of Wales		Public Convenience
	Fire Engine Station		Public House
	Fuel Pit or Fuel Store		Signal Box
	Fuel Store		Spring
	Gate Post		Telephone Call Box
	Mill Race		Telephone Call Post
	Mill Stone		Well

## 1:10,000 Raster Mapping

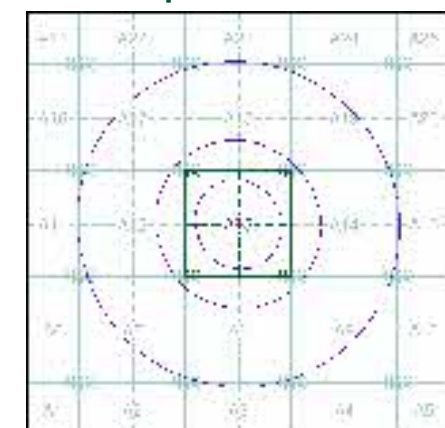
	Gravel Pt		Refuse or Slag Heap
	Rock		Brick Wall or Wall
	Boulder		Boulder (Scattered)
	Shingle		Mud
	Sand		Sand Pt
	Stone		Top of Cliff
	General Colliery		Underground Colliery
	Overhead Colliery		Narrow Gauge Railway
	Multiple Track Railway		Single Track Railway
	County Boundary (England and Wales)		Civil Parish or Community Boundary
	District, Tithing, Municipal, Local or Borough Boundary		Constituency Boundary
	Area of Woodland Vegetation		Non-Coniferous Trees
	Non-Coniferous Trees		Coniferous Trees
	Non-Coniferous Trees (Scattered)		Pasture Tree
	Orchard		Coppice or Coarse
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Seeps
	Water Feature		Field Stones
	Main High Water (Spring)		Main Low Water (Spring)
	Telephone Line (where shown)		Electricity Transmission or Line (where poles)
	Bench Mark (where shown)		Triangulation Station
	Point Feature (e.g. Gate Post or Mile Stone)		Fyln, Mine 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	1909	3
Cornwall & Isles Of Scilly	1:10,560	1938	4
Ordnance Survey Plan	1:10,000	1963	5
Ordnance Survey Plan	1:10,000	1975	6
10K Raster Mapping	1:10,000	2000	7
10K Raster Mapping	1:10,000	2006	8
VectorMap Local	1:10,000	2022	9

## Historical Map - Slice A



## Order Details

Order Number: 304630085\_1\_1  
 Customer Ref: 21278  
 National Grid Reference: 166180, 31920  
 Slice: A  
 Site Area (Ha): 0.16  
 Search Buffer (m): 1000

## Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



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

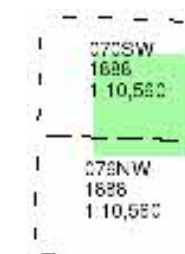
## Cornwall & Isles Of Scilly

Published 1888

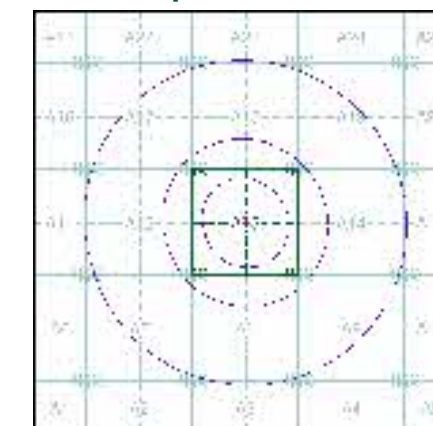
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 304630085\_1\_1  
Customer Ref: 21278  
National Grid Reference: 166180, 31920  
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Site Area (Ha): 0.16  
Search Buffer (m): 1000

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG

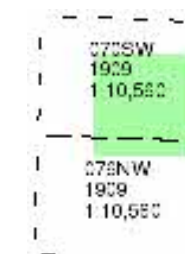
## Cornwall & Isles Of Scilly

Published 1909

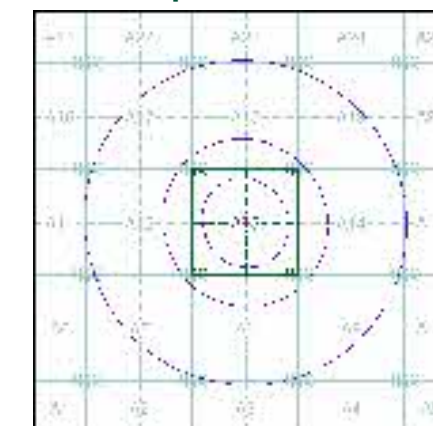
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 304630085\_1\_1  
Customer Ref: 21278  
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Slice: A  
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Search Buffer (m): 1000

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



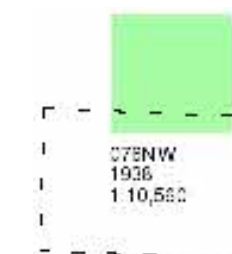
## Cornwall & Isles Of Scilly

Published 1938

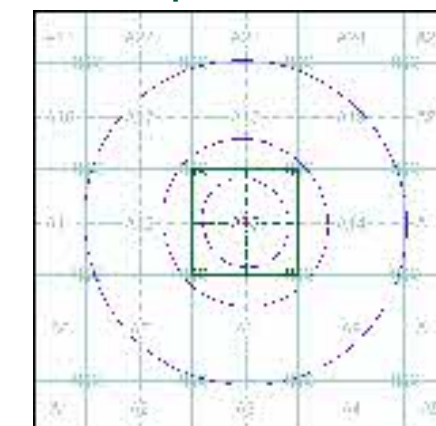
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A

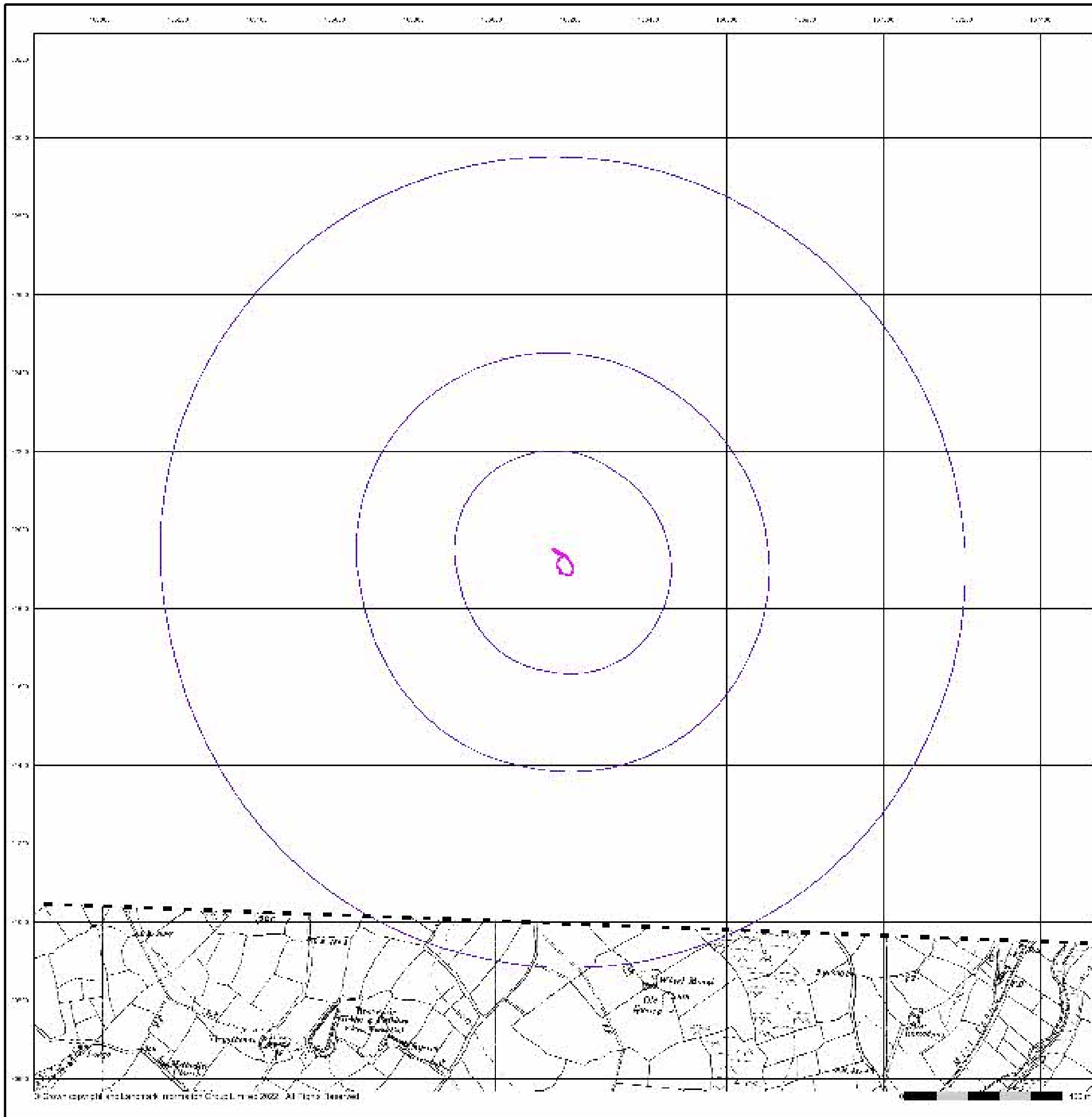


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### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



### Ordnance Survey Plan

Published 1963

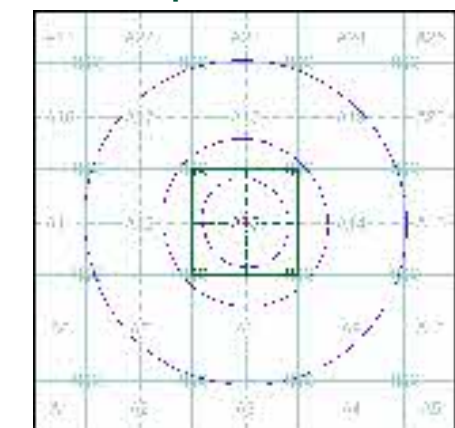
Source map scale - 1:10,000

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)

SW63SW 1963 1:10 560	SW83SE 1963 1:10 560
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### Historical Map - Slice A

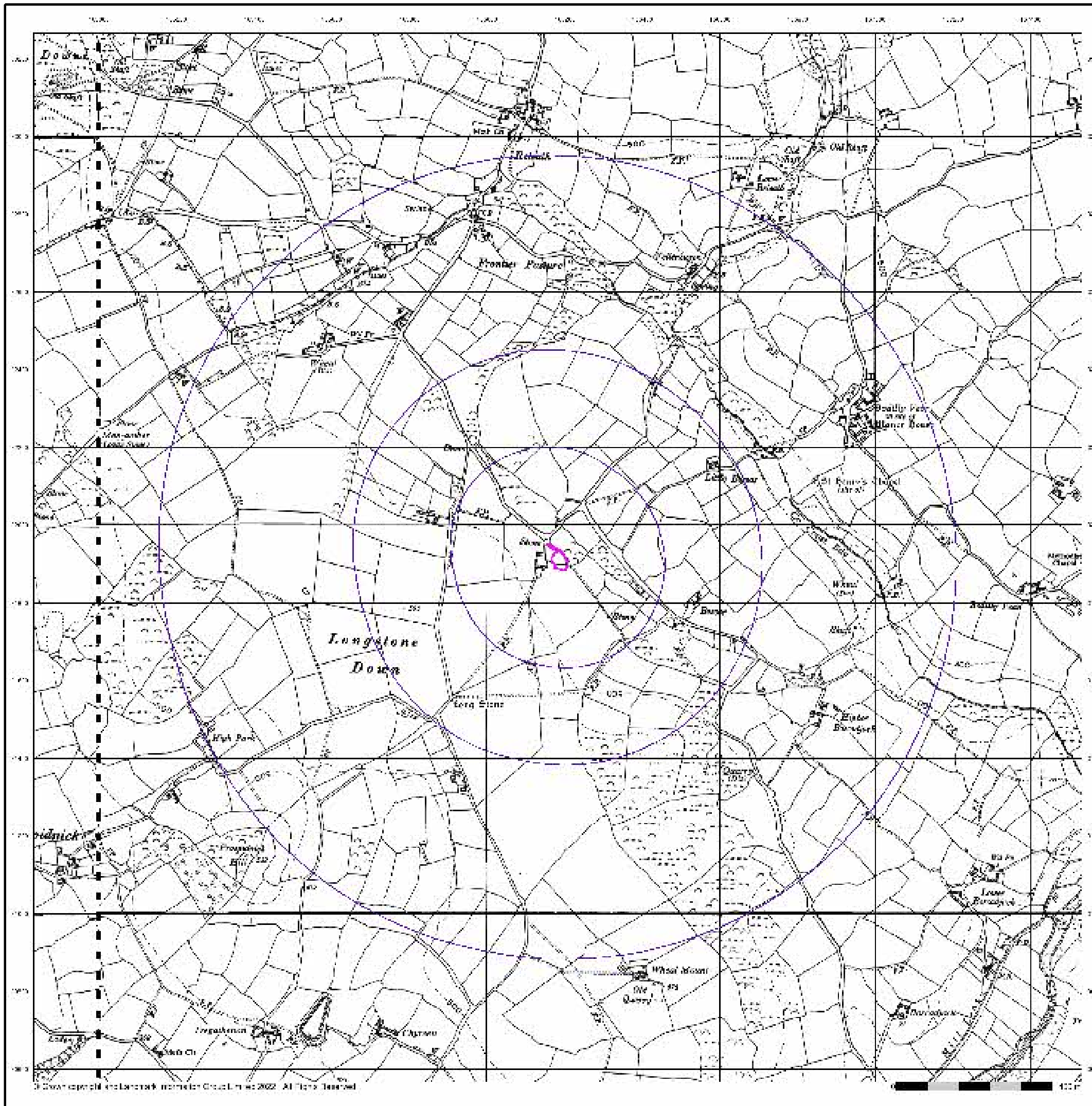


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Site Area (Ha):	0.16
Search Buffer (m):	1000

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



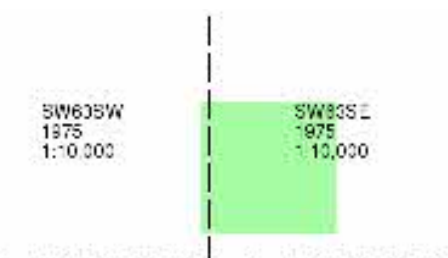
### Ordnance Survey Plan

Published 1975

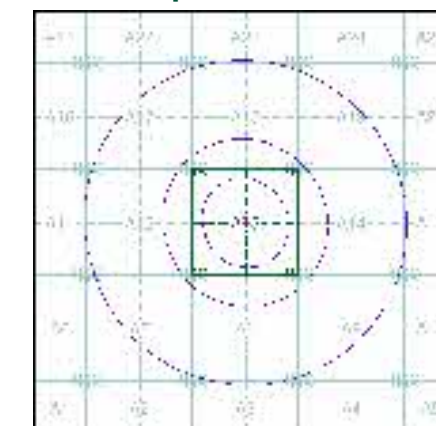
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 304630085\_1\_1  
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National Grid Reference: 166180, 31920  
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Site Area (Ha): 0.16  
Search Buffer (m): 1000

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG

### 10k Raster Mapping

Published 2000

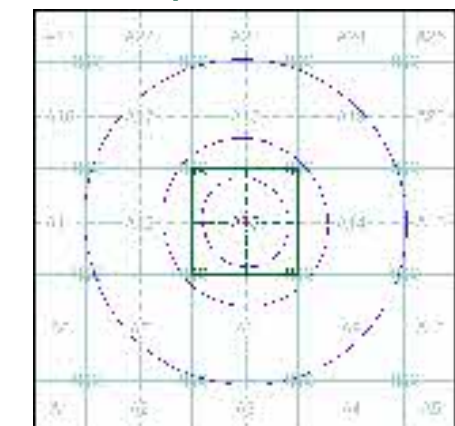
Source map scale - 1:10,000

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)

SW635W 2000 1:10,000	SW635E 2000 1:10,000
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### Historical Map - Slice A

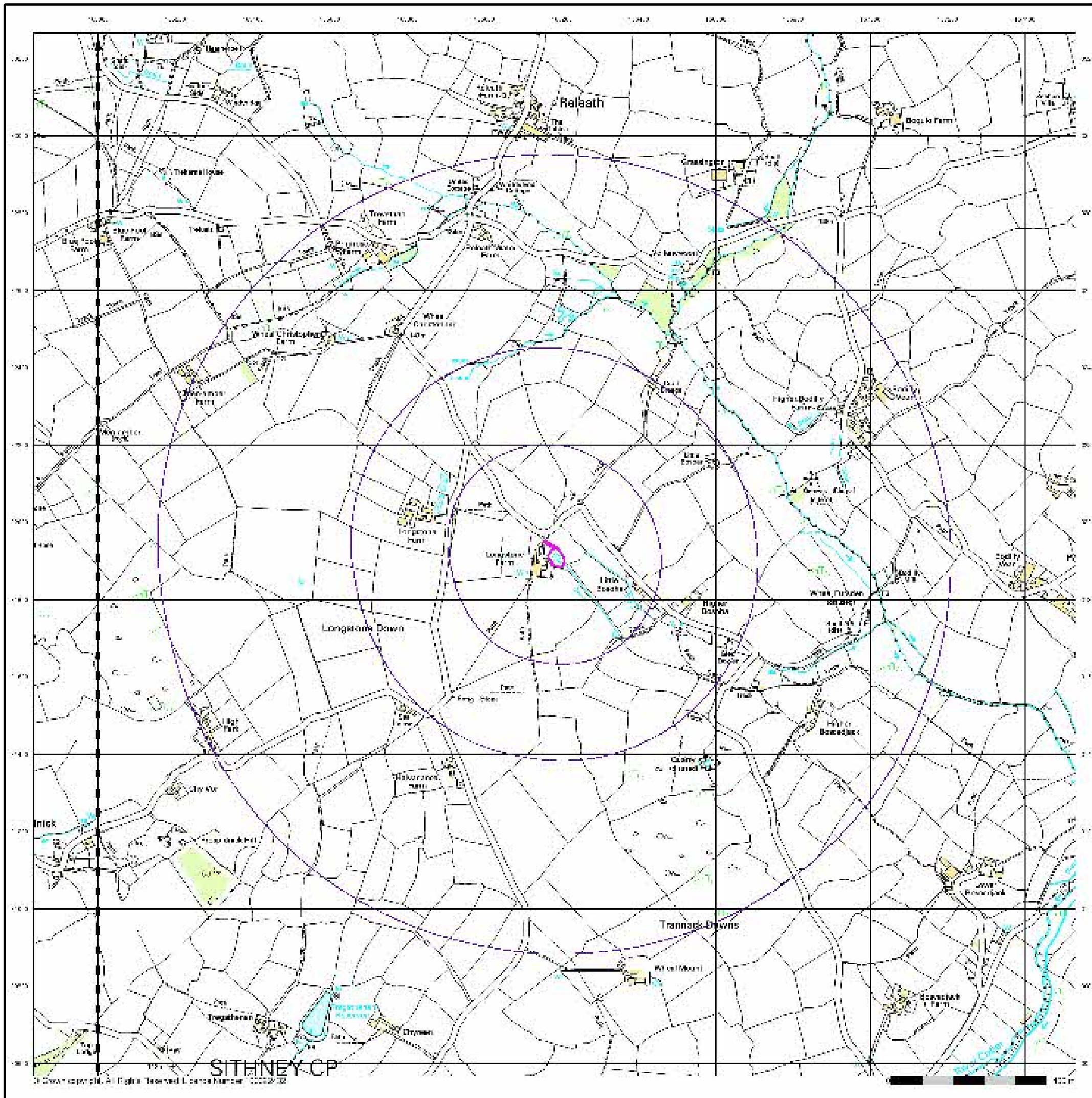


### Order Details

Order Number:	304630085_1_1
Customer Ref:	21278
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Site Area (Ha):	0.16
Search Buffer (m):	1000

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



SITHNEY CP

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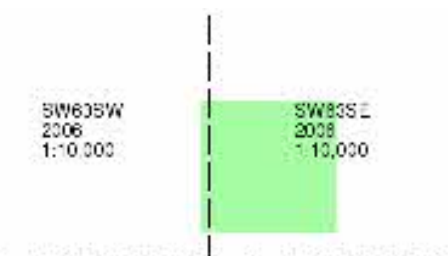
### 10k Raster Mapping

Published 2006

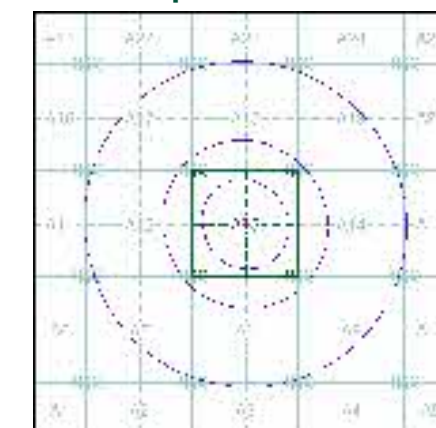
Source map scale - 1:10,000

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)



### Historical Map - Slice A

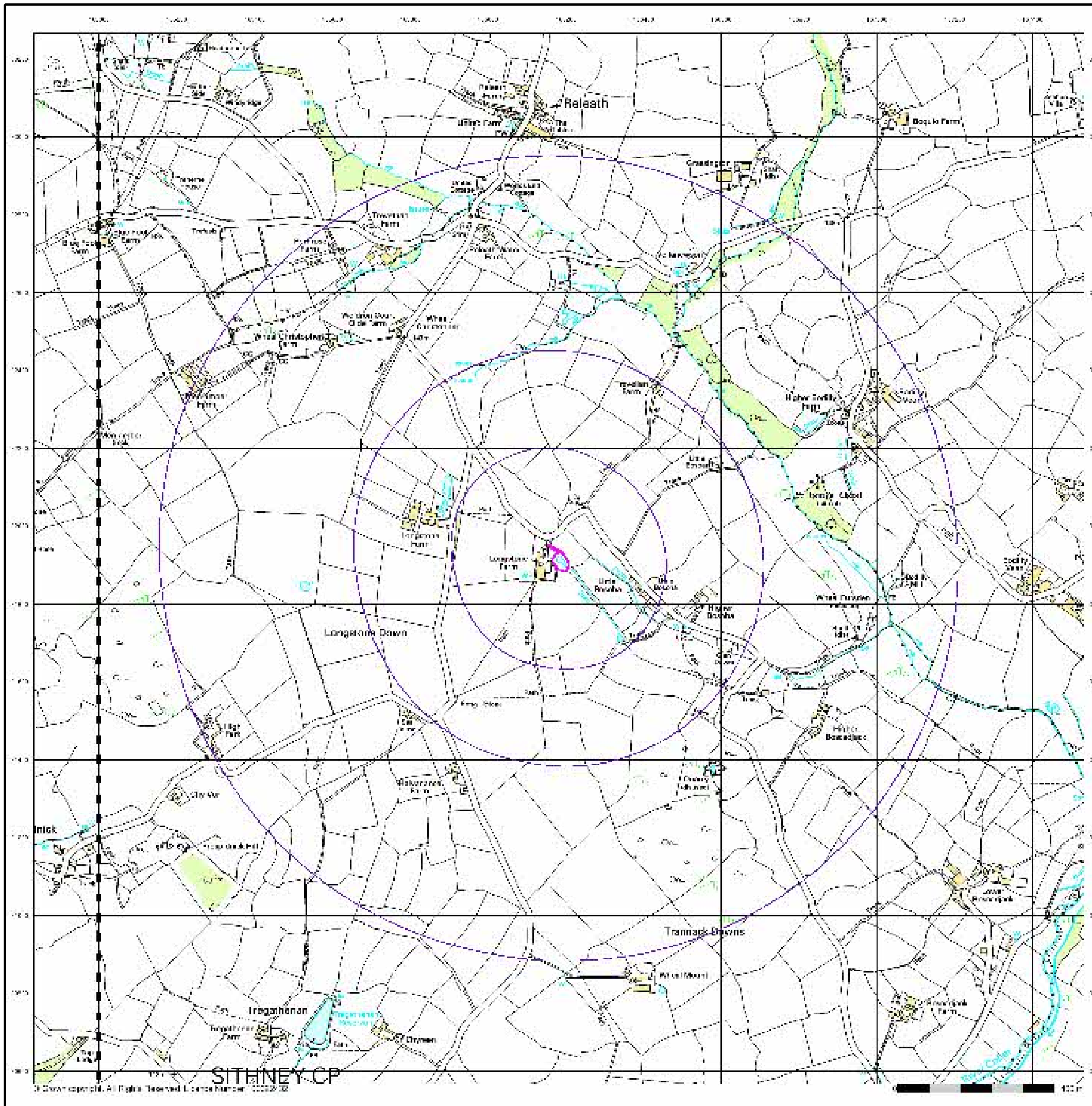


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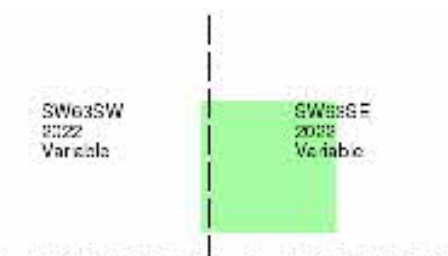
### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG

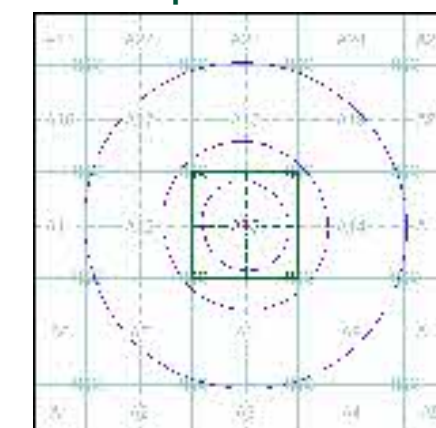


VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap 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)



Historical Map - Slice A

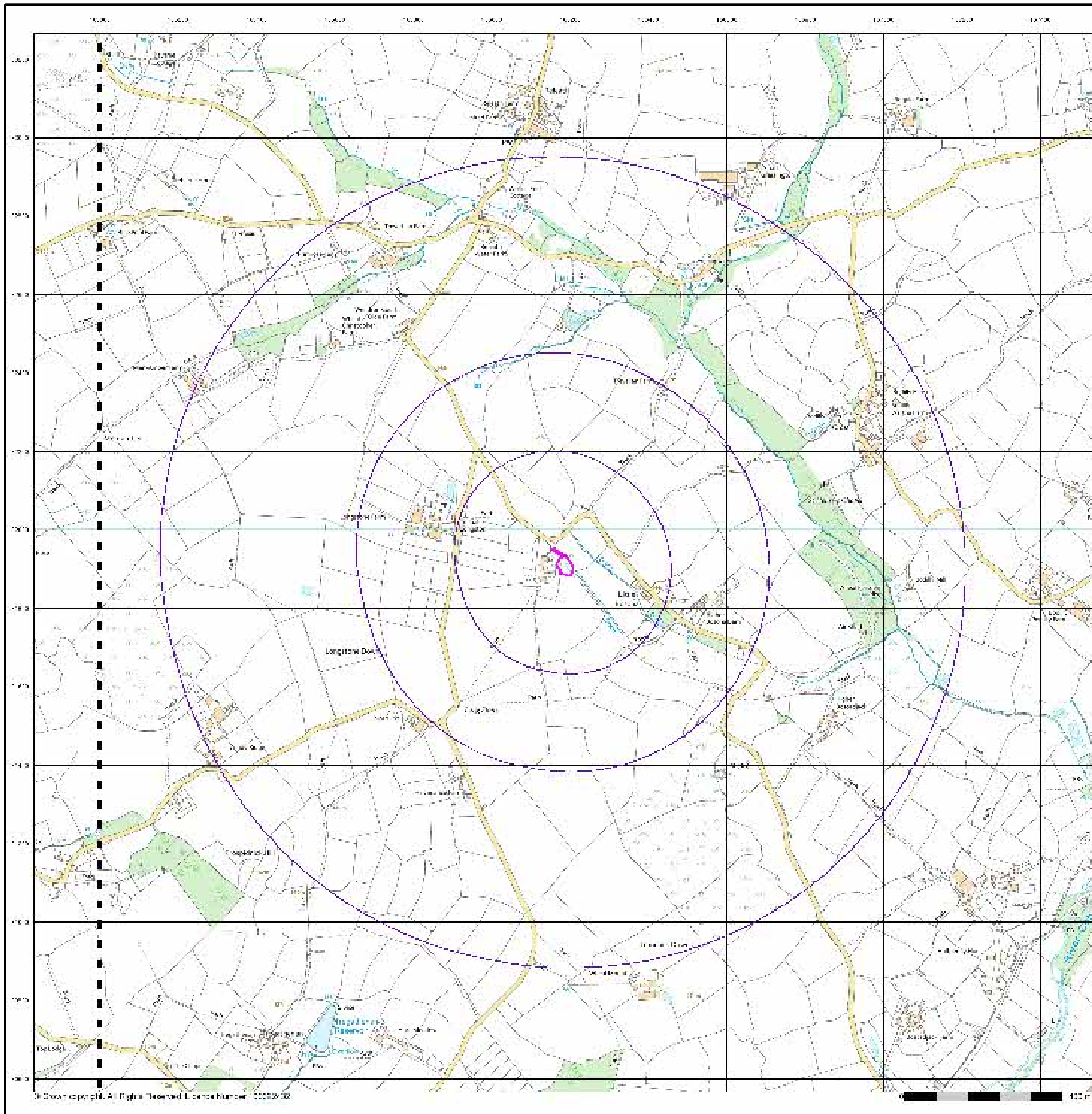


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Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG





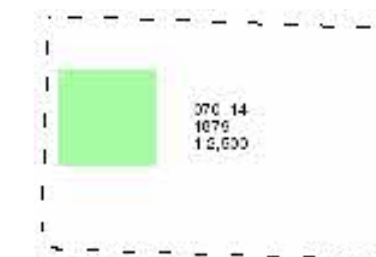
## Cornwall & Isles Of Scilly

Published 1879

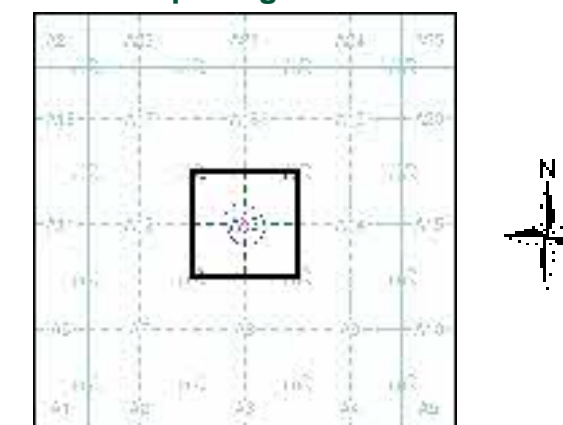
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 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

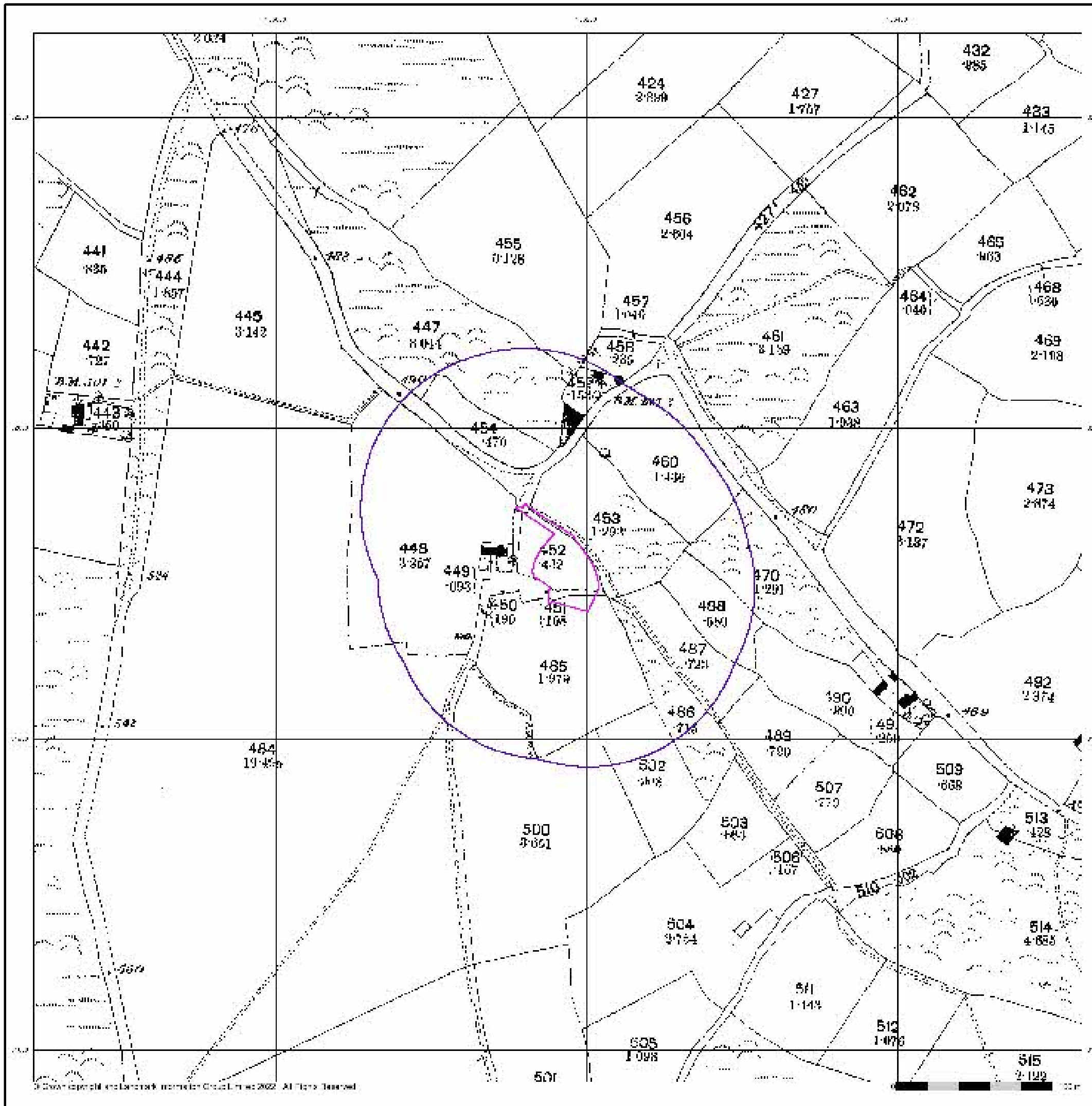


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Search Buffer (m): 100

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG





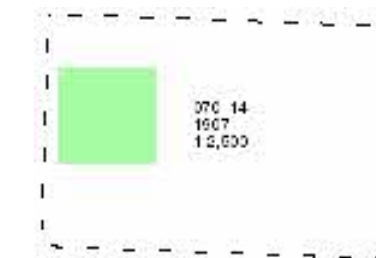
**Cornwall & Isles Of Scilly**

**Published 1907**

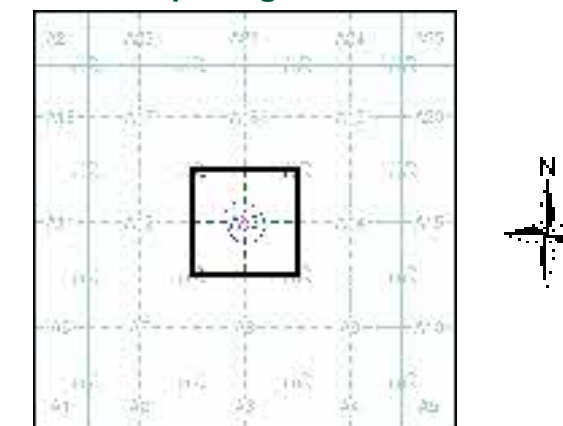
**Source map scale - 1:2,500**

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**

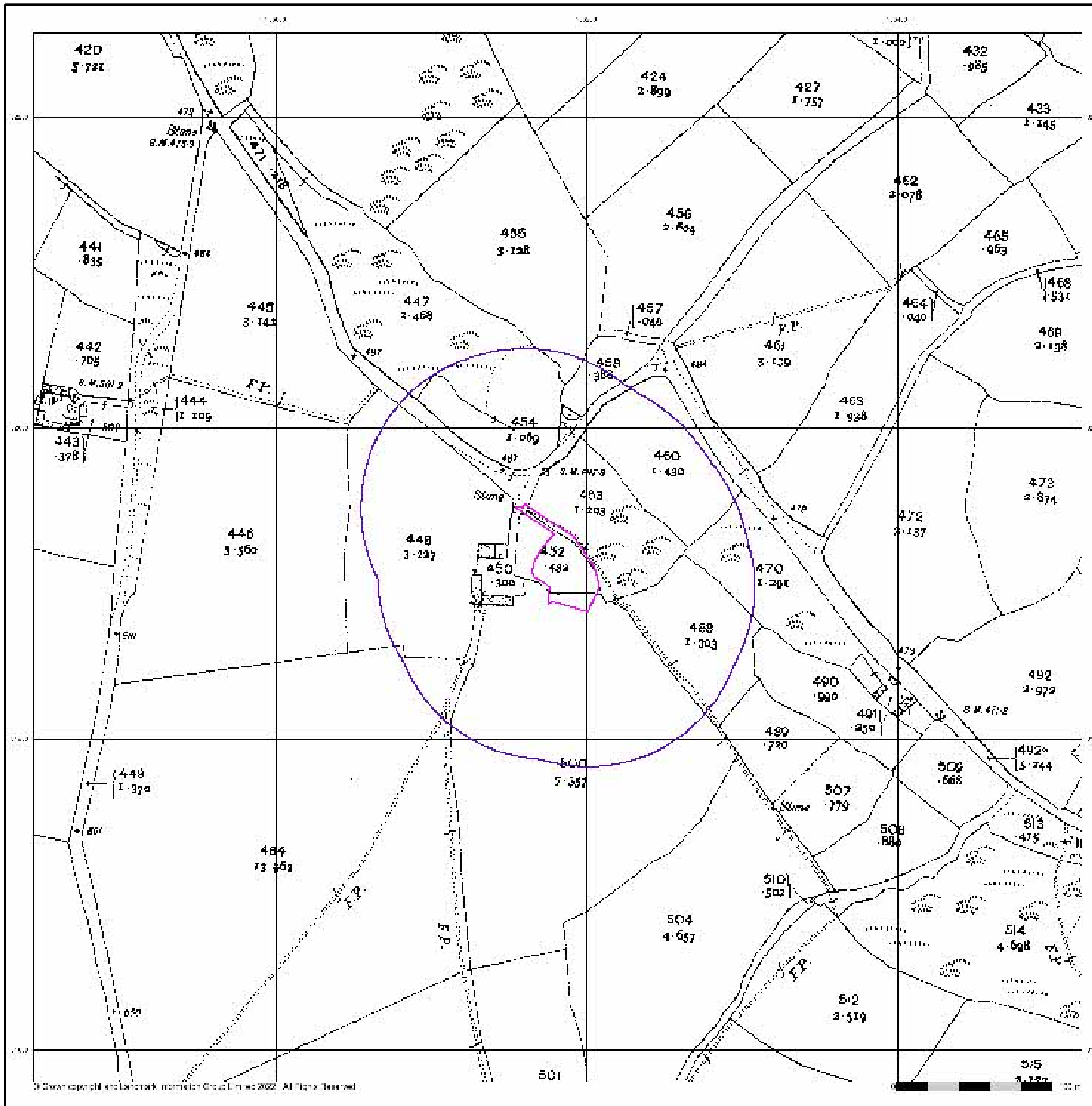


**Order Details**

Order Number: 304630085\_1\_1  
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 Slice: A  
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 Search Buffer (m): 100

**Site Details**

Longstone Farm, Trenear, HELSTON, TR13 0HG



## Ordnance Survey Plan

Published 1972

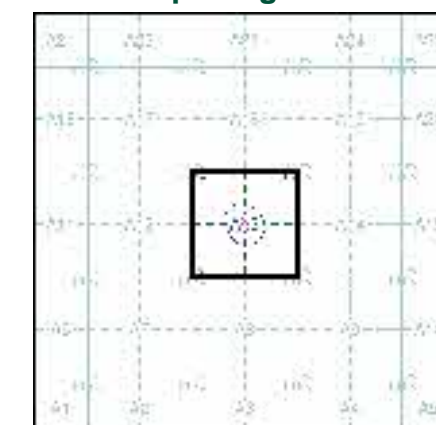
Source map scale - 1:2,500

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)

SW8530	SW8532
1972	1972
1:2,500	1:2,500
SW8531	SW8531
1972	1972
1:2,500	1:2,500

### Historical Map - Segment A13

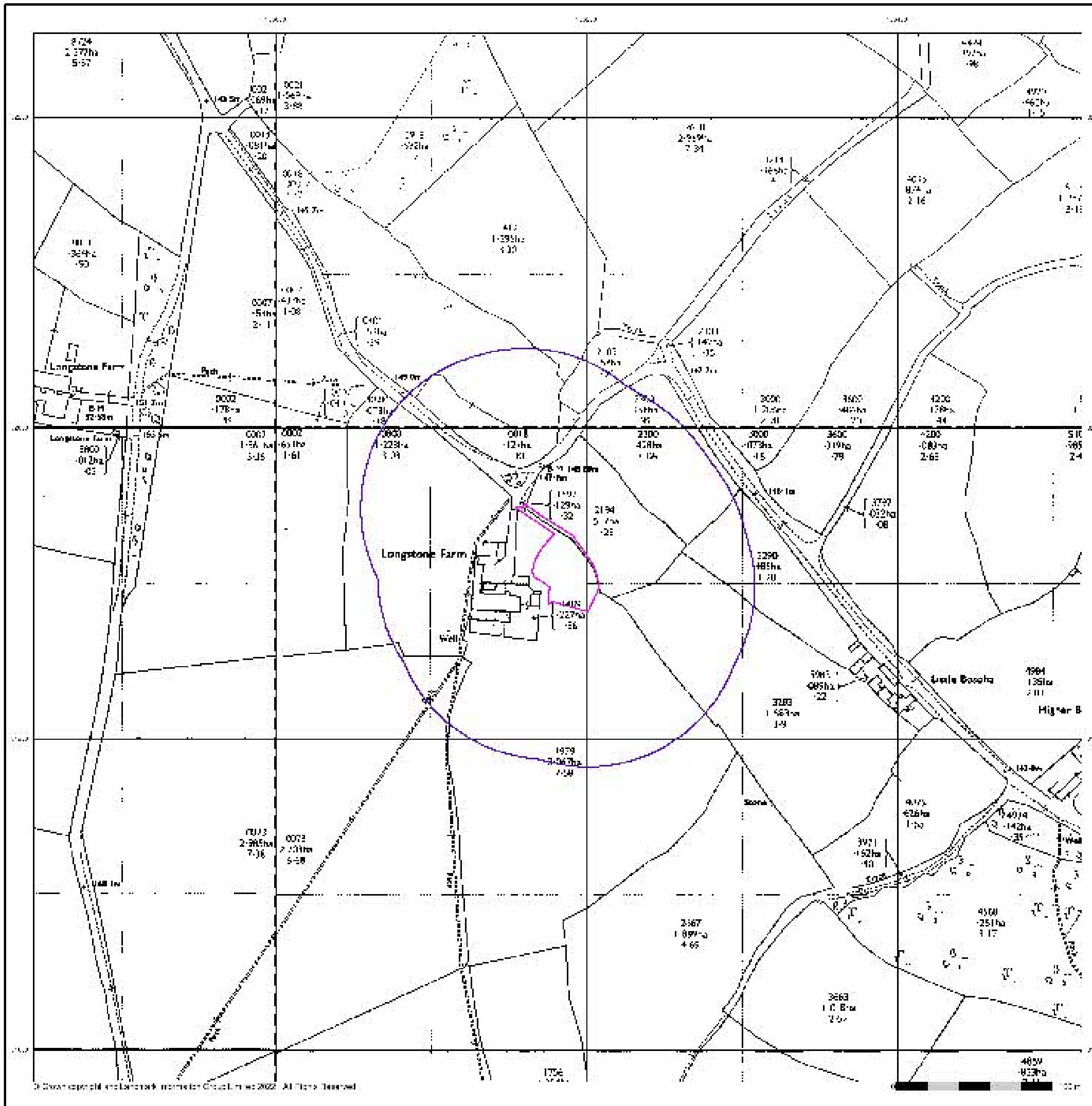


### Order Details

Order Number: 304630085\_1\_1  
 Customer Ref: 21278  
 National Grid Reference: 166180, 31920  
 Slice: A  
 Site Area (Ha): 0.16  
 Search Buffer (m): 100

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



## Large-Scale National Grid Data

Published 1995

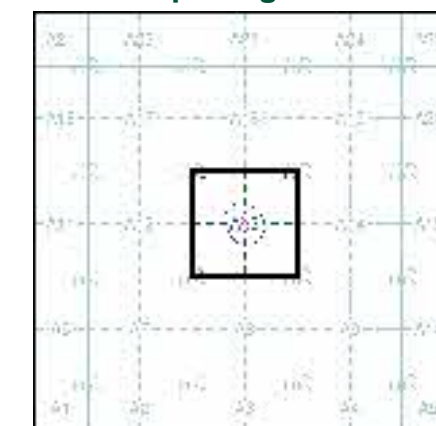
Source map scale - 1:2,500

'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)

SW8530 1995 1:2,500	SW8532 1995 1:2,500
SW8531 1995 1:2,500	SW8531 1995 1:2,500

### Historical Map - Segment A13

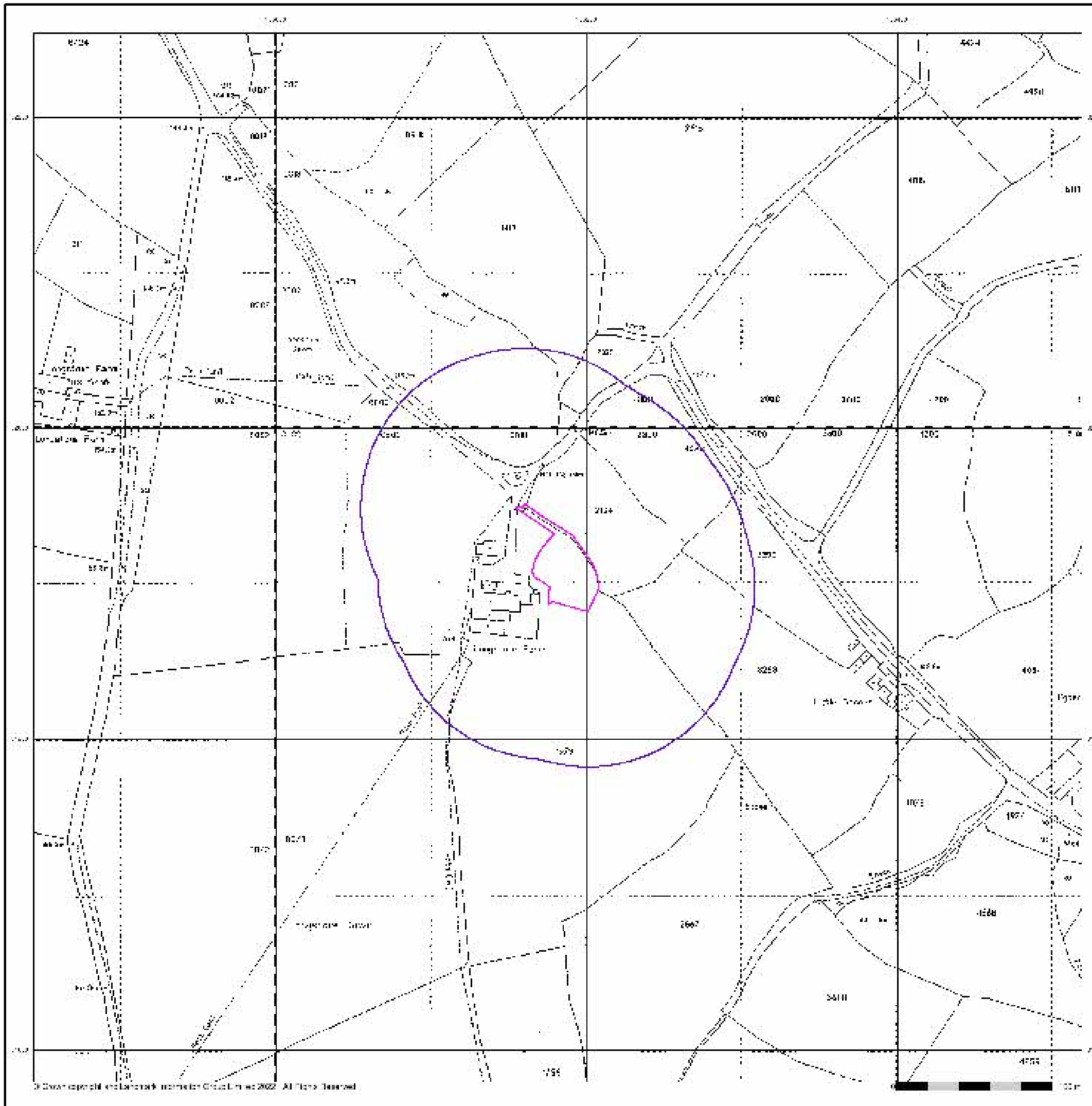


### Order Details

Order Number: 304630085\_1\_1  
 Customer Ref: 21278  
 National Grid Reference: 166180, 31920  
 Slice: A  
 Site Area (Ha): 0.16  
 Search Buffer (m): 100

### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG

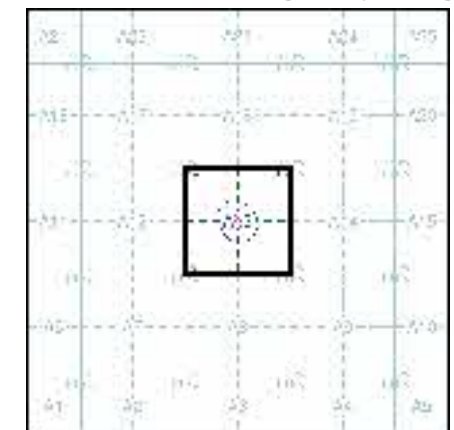


### Historical Aerial Photography

Published 1999

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: 304630085\_1\_1  
 Customer Ref: 21278  
 National Grid Reference: 166180, 31920  
 Slice: A  
 Site Area (Ha): 0.16  
 Search Buffer (m): 100

#### Site Details

Longstone Farm, Trenear, HELSTON, TR13 0HG



## APPENDIX D

### UXO Risk Map

# UNEXPLODED BOMB RISK MAP



## SITE LOCATION

Location: TR13 0HG,  
Map Centre: 166404,31824



## 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.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

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

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment\* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment\* is necessary.

### What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

**Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.**

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

If both the map and other research confirms 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.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

### 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 number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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 acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

\*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.



## APPENDIX E

### Desktop Mine Search



Wheal Jane Consultancy  
Old Mine Offices  
Wheal Jane  
Baldhu, Truro  
Cornwall, TR3 6EE



## Archival (Desktop) Mining Search

**Mining Risk: Low**

**Address:** Longstone Farm  
Trenear  
Helston  
Cornwall  
TR13 0HG

**Client:** WJC

**Your Ref:**

**Our Ref.:** MS43002

**Date:** 12 December 2022

01872 560 200  
[consultancy@wheal-jane.co.uk](mailto:consultancy@wheal-jane.co.uk)





## Low Risk

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Dear Sirs,

### **Re: Longstone Farm, Trenear, Helston, Cornwall, TR13 0HG**

We thank you for your recent request.

As instructed, we have carried out a mining search in respect of the above property, as delineated on the plan supplied for the purpose of requesting this search (a copy of which is included with this report).

The purpose of this mine search is to examine and interpret the plans and records in our possession relating to metalliferous mining activity and based upon this information, give a professional opinion in respect of potential risk to the property from such historical mining activity and, if required, make recommendations as may be deemed appropriate.

Where other workings relating to clay, stone or other minerals are noted to be in close proximity to the property mention will be made of them.

This report is of a format suitable for conveyancing purposes.

### **Mining Activity**

The property is located within the once important Wendron mining district.

It lies within the lease or sett boundaries of the old Wheal Christopher Mine.

The plans and records that are currently held in our possession at the time of compiling this report, relating to this district, do not indicate the presence of any old shallow/surface mine workings or shafts within the boundaries of the property.

The nearest mine workings, shown as a shaft, lie over 400 metres to the east-south-east of the property.

Working related to the mines of Wheal Fursden and Wheal Christopher lie over 700 metres east-south-east, and 800 metres south-east of the property, respectively.

We have found no evidence of clay workings or other mineral workings within in the boundary of the property.

An old quarry lies some 600 metres south-west of the site.

We have found no evidence for the presence of any water supply wells within the boundaries of the property.

A well lies over 50 metres west-south-west from the southern boundary of the site.

## Low Risk

---

### **Conclusions**

We know of no plans to exploit metallic minerals in the locality, nor do we consider this a likely event.

Based upon the information that is held in our possession, at the time of writing this report, we have found no documentary evidence to indicate the presence of old shallow or surface mine workings underlying the property.

We would consider that the property is at low risk from being affected by past mining activity.

### **Recommendations**

We have no recommendations to make in respect of this property.

## Low Risk

---

### **Scope of Search & Limitations**

This search has been carried out with reference to the extensive collection of plans, records and archives that are held in our possession at the time of writing this report and from this material we have endeavoured to give as accurate a report as possible in respect of the property as delineated in the initial request.

However, taking into account that such records may not be wholly complete or accurate, that records may exist of which we do not hold copies, or records exist that are held in private sources which are not available to us and that in Cornwall, Devon and Somerset many ancient shallow workings and shafts exist of which there are no records, we cannot accept liability for any inaccuracies there may be.

This report is concerned solely with the property searched and should not be used in connection with adjacent properties as only relevant mining features have been mentioned and any known features that would not have a direct influence upon the target property may have been omitted for clarity.

The report is based upon the property boundaries as shown on the supplied request plan.

We cannot accept liability for any inaccuracies if the property boundaries, as supplied to us by the client or the client's agent, are subsequently shown to be incorrect, incomplete or if no such request plan has been supplied when the search has been requested.

We accept no liability if any part of the property address / postcode, as supplied to us by the client or the client's agent, is incorrect.

This report is confidential to the client and the client's legal advisor and the client's mortgage lender and as such may be used by them for conveyancing or related purposes.

We have no liability toward any person or organisation not party to commissioning this report.

This report or any part of it, is not permitted to be reproduced, copied, altered or in any other way distributed by any other person or organisation.

Unless otherwise expressly stated, nothing in this report shall create or confer any rights or other benefits pursuant to the Contracts (Rights of Third Parties) Act 1999 in favour of any person or organisation other than the person/organisation commissioning this report.

This report is not a contaminated land, environmental, geotechnical or archaeological survey and should not be interpreted as such.

No site visit has been made.

We trust that this report is to your satisfaction and will be happy to answer any queries with respect to it.

Yours faithfully,

  
*Wheal Jane Consultancy*  
[dalef@wheal-jane.co.uk](mailto:dalef@wheal-jane.co.uk)  
01872 560200

## Low Risk

### Mining Glossary

<b>Adit</b>	Horizontal mine drainage tunnel driven from low ground into mine workings. The adit tunnel is the shallowest level shown on mine plans and usually represents the earliest period of workings recorded. Adits have ventilation shafts at regular intervals, which are mostly unrecorded.
<b>Alluvium</b>	Clay, sand and debris deposited by a river. Often streambed for tin.
<b>Burrow</b>	A mine waste tip.
<b>Caunter lode</b>	A lode which runs in a different direction to the general trend of lodes in the district.
<b>Coffin/Koffen</b>	Trench-like openwork at surface.
<b>Costean Pit</b>	A small surface pit excavated to locate and/or sample a lode.
<b>Crosscourse</b>	Geological features which run at right-angles to the principal lodes of a district, and are vertical or sub-vertical faults. Mostly barren of payable minerals, but can carry values of iron ore, cobalt and other metallic minerals. Also known as 'guides' or 'trawns' in the St Just and St Ives mining districts respectively.
<b>Crosscut</b>	Tunnel driven underground, usually at right-angles to the lodes.
<b>Dip of Lode</b>	Angle of inclination of a lode from the horizontal.
<b>Drive</b>	Tunnel driven along the course of a lode.
<b>Elvan</b>	Igneous rock (quartz-porphry) occurring as a vein or dyke. Can be extremely hard. Exploited by quarrying.
<b>Granite</b>	Igneous rock. Crystalline mixture of quartz, feldspar and mica.
<b>Greenstone</b>	Igneous rock also called 'blue elvan'. Generally extremely hard.
<b>Gunnis</b>	Open stope at surface or underground.
<b>Kaolinisation</b>	Alterations or weathering of granite to clay and sand from solid rock.
<b>Killas</b>	Generic term given to sedimentary rock in Cornwall.
<b>Leat</b>	A man-made watercourse.
<b>Level</b>	Horizon underground where ore movement and communications are maintained. Levels consist of lode drives and crosscut tunnels: i.e. 12 fathom level; the system of tunnels driven at 12 fathoms below adit horizon.
<b>Lode</b>	A mineralised structure or vein. Most lodes run from surface vertically or sub-vertically, and can vary from a few inches to several metres in width.
<b>Mundic</b>	Iron pyrite, arsenic and sulphur - arsenopyrite.
<b>Openwork</b>	A surface working, which has usually left a pit or backfilled excavation.
<b>Outcrop</b>	The part of the lode which breaks surface. Worked-out voids and backfilled areas are outcrop features.
<b>Rab</b>	Weathered zone of mixed rock and soil (natural profile)
<b>Sett</b>	An area of land leased for mining.
<b>Shaft</b>	Holes in the ground, which can vary from 0.5m x 1m up to shafts 7m across. Engine shafts tends to be large (typically 3m x 2m) and adit shafts are smaller (typically 1.2m x 1.8m). Depths vary down to 700m.
<b>Stockwork</b>	Mass of narrow veins or lodes running parallel and sub-parallel.
<b>Stope</b>	Ground where lode has been removed leaving void. Sometimes open to surface.
<b>Tailings</b>	Residual sands and slimes from ore dressing. Usually heavily contaminated.

## Low Risk

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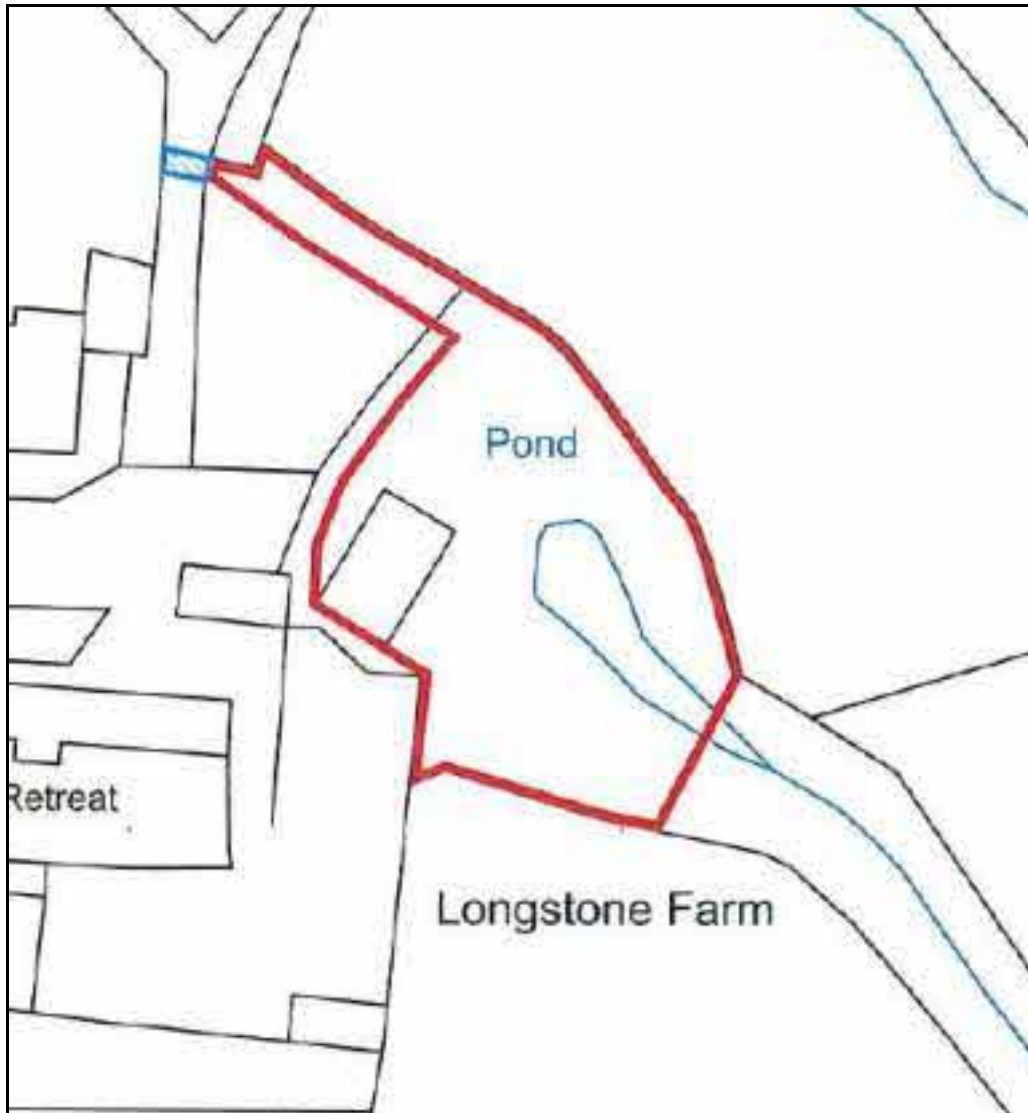
### Mining References (generic listing)

H G Dines - The Metalliferous Mining Region of South West England (2 Vols)  
A K Hamilton Jenkin - Mines & Miners of Cornwall (16 Vols)  
A K Hamilton Jenkin - Mines of Devon (2 Vols)  
A K Hamilton Jenkin - Wendron  
Thomas Spargo - Tin Mines of Cornwall (6 Vols)  
J H Collins - Observations of West of England Mining Region  
Sellwood, Durrance & Bristow - Geology of Cornwall  
Durrance & Laming - Geology of Devon  
Burt, Waite & Burnley - Cornish Mines  
MRO Plans (CRO)  
MRO Copies (SC Archive)  
MRO Microfiche (SC)  
South Crofty Archive  
Tehidy Minerals Archive  
JMS/JAB/JHB Archive  
Wheal Jane Collection  
Wheal Pendarves Collection  
Geevor Collection  
Thyssen Review & Plans  
A K H Jenkin, Annotated 6" Plans  
Geological 6" Plans  
Richard Thomas Plans  
Robert & Brenton Symons Plans  
Nicholas Whitley Plans  
K Bennet Annotated Plans  
R Lyon Annotated Plans  
Ordnance Survey 1880, 1906, etc Maps  
H G Dines Composites

## Low Risk

### Search Request Plan

Copy of the request plan(s) provided to Wheal Jane Consultancy to identify the property for search purposes:



**Please note that request plans do not automatically follow the convention for north to be oriented 'up' the page, however, all directional references made in this report are based upon correctly oriented mapping resources that are held by Wheal Jane Consultancy.**

***Accuracy, quick turnaround times, competitive prices, fully qualified and experienced staff, full professional indemnity insurance cover.***

*Cornwall's first ISO certified mine search and site investigation specialists*



# 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

