

Mining Searches UK
Highburrow Lane
Wilson Way
Pool Industrial Estate
Redruth, Cornwall TR15 3RN

T 01209 218861
E search@miningsearchesuk.com
www.miningsearchesuk.com

Property Group SW

45 Fore Street
Callington
Cornwall
PL17 7AH

2nd August 2021

Our Reference: GM/AM/340052.PI

Contaminated Land Desk Study Phase I Report

Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT

Issue No.	Date	Author	Details
001	02/08/2021	Giles M	Final Report

Report approved by:

Signed: *Aaron Moyle*

Print: Aaron Moyle

Position: Geologist

EXECUTIVE SUMMARY

A Contaminated Land Desk Study Phase I Report has been carried out for the Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT.

The initial Contaminated Land Desk Study Phase I has identified a potential pollutant linkage to be present onsite in terms of radon. Full radon protective measure may be required as part of the redevelopment. No other potential contaminants have been identified.

Potential contaminants were identified relating to the former mining activity in the local area and the railway which lies to the north of the site identified within this report. However, following a site visit and a review of the proposed redevelopment of the site, there appears to be no pathways for these contaminants, and they are not considered to impact the site. This opinion is based on the current proposal and should there be any alterations the result may be reviewed.

In its current condition the site is considered 'suitable for use', and no other remedial works as regards to potential soil contamination are necessary. Requirements for further assessment may depend on the proposal for the site which is yet to be finalised.

The identified risks along with the required actions are summarised in the table below:

ASSESSMENT	RISK	ACTION REQUIRED* (Y/N)?
Land Contamination	Passed	N: Subject site 'suitable for use', no remedial measures necessary.
Radon	Medium	Y: Basic radon protection (depending on construction detail).

*Please see conclusions and recommendations section for full details.

CONTENTS

EXECUTIVE SUMMARY 2

1. INTRODUCTION/OBJECTIVES..... 5

 1.1. PREVIOUS WORKS 5

2. SITE DEFINITION 6

 2.1. SITE WALKOVER..... 6

3. SITE HISTORY 7

4. GEOLOGY SETTING 8

 4.1. OTHER GEOLOGICAL HAZARDS..... 8

 4.2. ARTIFICIAL GROUND..... 8

 4.3. RADON 8

5. ENVIRONMENTAL SETTING 9

 5.1. ENVIRONMENTAL PERMITS, INCIDENTS AND REGISTERS 9

 5.2. LANDFILL AND OTHER WASTE SITES..... 9

 5.3. WASTE EXEMPTIONS 9

 5.4. HISTORICAL LAND USES..... 9

 5.5. HISTORICAL ENERGY FEATURES 9

 5.6. CURRENT LAND USES..... 9

 5.7. HYDROGEOLOGY 10

 5.7.1. *Aquifer within superficial Deposits* 10

 5.7.2. *Aquifer within bedrock geology*..... 10

 5.7.3. *Groundwater Vulnerability and Soil Leaching Potential*..... 10

 5.7.4. *Water Abstraction Licenses* 10

 5.7.5. *Source Protection Zones* 10

 5.8. HYDROLOGY..... 10

 5.9. FLOODING 10

 5.10. DESIGNATED ENVIRONMENTALLY SENSITIVE SITES 10

 5.11. SOIL CHEMISTRY 11

6. CONCEPTUAL SITE MODEL 12

 6.1. INTRODUCTION 12

 6.2. HAZARD IDENTIFICATION 13

 6.3. CONTAMINATED LAND 13

 6.4. HEAVY METAL AND VANADIUM/COAL PRODUCTS..... 13

7. RISK ASSESSMENT..... 15

8. CONCLUSIONS 16

9. LIMITATIONS 17

Appendices:

- Appendix A: Photographic Plates (1-10)
- Appendix B: Groundsure Report
- Appendix C: Historical maps
- Appendix D: Magnitude of Risk

1. INTRODUCTION/OBJECTIVES

Further to your request, we are pleased to present our Contaminated Land Desk Study Phase I Report relating to the Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT.

We understand that this report has been requested to provide information on the contaminated land aspects in relation possible future redevelopment at the site. Mining Searches UK understand that the building is subject to a change of use from offices to five flats with associated parking.

This report provides a preliminary assessment of the site based on historical information, the geological and environmental setting, and a site walkover, in accordance with the Model Procedures for the Management of Land Contamination (CLR11) (2004) as set out by the Environment Agency.

All available and relevant information relating to the potential contamination of the site is used to construct an initial conceptual site model (CSM) with regards to contaminants.

A preliminary risk assessment is then carried out, categorising the apparent risk(s) associated with the site in relation to the current and proposed future land use.

1.1. PREVIOUS WORKS

Mining Searches UK are not aware of any previous works in relation to environmental or geotechnical assessments having been carried out at the site.

2. SITE DEFINITION

The site currently comprises an irregular parcel of land containing Parc Vean House, a detached double garage and associated asphalt parking area. Access was provided by a roughly surfaced lane from Coach Lane. The site is approximately 0.268ha and centered approximately on Ordnance Survey National Grid Reference Easting 169388, Northing 41744.

2.1. Site Walkover

A site walkover was conducted on the 2nd August 2021 during dry weather conditions.

During the walkover survey, the site was inspected for visible signs of contamination and for any activities that have the potential to cause contamination. Site photographs taken during the walkover are presented in Plates (1-10) of Appendix A.

The subject site was accessed by an asphalt lane off Coach Lane to the west of the subject site. The lane entered the western boundary of the site which opened into a large parking area also covered in asphalt which was largely found to be in good condition. Towards the southern boundary was a walled planter containing several large mature trees.

At the eastern end of the site was the building called Parc Vean. It is a large building which has been extended to both the east and the west. The main building is of traditional stone construction while the extensions are more modern block-built structures. There is a small patio area to the side of the western extension. Along the northern boundary of the site is a large double garage under a pitched slate roof, as well as a smaller block built out building. The building was most recently used as offices.

The site was bounded by a combination of concrete block or stone walls. Residential properties are all around the subject site. Located directly north of the property was a deep railway cutting with the railway line running approximately East-West right along the north site boundary. A public park lay north of the railway line.

No invasive species were observed during the site walkover. The vegetation all seemed to be of a healthy condition. No obvious odours or evidence of fuel spills were noted during the walkover.

3. SITE HISTORY

As part of the Groundsure Report, the available Ordnance Survey plans published which cover the site has been included (Appendix B). Other available historical maps have also been referenced, where relevant. The following has been noted from the plans, which have been examined in chronological order starting with the earliest plan (Appendix C).

Date	Land Use	Potential Contaminants
1888-1908	<p style="text-align: center;">On Site</p> <p>The subject site is an irregular shape parcel of land with access from the west and the east of the site is dominated by the building called Parc Vean</p> <p style="text-align: center;">Off Site</p> <p>A railway line lies to the north of the property. The town of Redruth lies to the Northeast of the site. Several mines can be seen in all directions from the subject site. The closest being recorded as East Carnbrea Mine to the south or Wheal Union to the southwest.</p>	<p>Heavy metals Vanadium Coal products (railway)</p>
1938-1963	<p style="text-align: center;">On Site</p> <p>No Significant Change.</p> <p style="text-align: center;">Off Site</p> <p>Increased development of the local area – mainly residential. Very little mining now shown on the maps.</p>	<p>Vanadium Coal products (railway)</p>
1966-1994	<p style="text-align: center;">On Site</p> <p>Two smaller buildings shown within the site boundary as well as the main house.</p> <p style="text-align: center;">Off Site</p> <p>Directly to the south of the subject site three new dwellings have been built. Further large scale development of the surrounding area. Not much mining shown on later editions. Shafts and quarries to the north and south all shown as disused.</p>	<p>Vanadium Coal products (railway)</p>
1994-Present	<p style="text-align: center;">On Site</p> <p>No significant change.</p> <p style="text-align: center;">Off Site</p> <p>No Significant Change.</p>	<p>Vanadium (railway)</p>

4. GEOLOGY SETTING

The 1:50,000 scale BGS Geological Mapping shows the bedrock in the area as being "Mylor Slate Formation – Hornfelsed Slate and Hornfelsed Siltstone" which dominates the geology of the immediate surrounding area. This rock type is recorded as having a low permeability with fracture flow type.

Multiple faults are recorded to pass through the local area, the closest of which is located 40m S of the site.

4.1. Other Geological Hazards

The British Geological Survey natural ground stability hazard datasets indicate the following hazard ratings for the site.

Hazard	On Site	Off Site
Shrink - Swell Clay	Negligible	Negligible
Landslides	Very Low	Very Low
Ground dissolution	Negligible	Negligible
Compressible Ground	Negligible	Negligible
Collapsible Deposits	Very Low	Very Low
Running Sand	Negligible	Negligible
Artificial ground	Negligible	Negligible

4.2. Artificial ground

No artificial ground is recorded onsite.

4.3. Radon

The property is in a Radon Affected Area as defined by the Health Protection Agency (HPA), as greater than 30% of properties in the area are above the Action Level. Full radon protective measures are required.

The radon protective measures required may depend on the construction specifications of the proposed development.

5. ENVIRONMENTAL SETTING

5.1. Environmental Permits, Incidents and Registers

There are no environmental permits within 250 metres of the subject site.

There are no recorded pollution incidents within 250 metres of the subject site.

There are no licensed discharge consents within 250 metres of the site.

5.2. Landfill and Other Waste Sites

There is one recorded historic landfill or other waste sites recorded within 250 metres of the subject site. It is located 85 NW of the site and is described as a former railway cutting. This is at such a distance that it is not considered to affect the site.

5.3. Waste Exemptions

There are no waste exemptions within 250m of the subject site.

5.4. Historical Land Uses

No potentially contaminative historical land uses are shown directly onsite.

Multiple potentially contaminative historical land uses are recorded within 250 metres of the site and are dominated by features associated with the Railway to the north and the historical mining activity which has occurred in the surrounding area. The closest record of the railway is a cutting 2 metres to the north of the site and the closest mine entry is 132 m SW.

5.5. Historical Energy Features.

An electricity house is located 112m NE and 168m NE from 1966 and 1967. The location of these features are located outside the proposed site boundary and are not considered to affect the proposed use of the site.

5.6. Current Land Uses

The railway line still runs directly to the north of the site. Even though the railway line is close to the site it lies within a deep cutting and is not considered to affect the site.

5.7. Hydrogeology

5.7.1. Aquifer within superficial Deposits

An aquifer within superficial deposits is recorded approximately 342.0m north of the site and is designated as Secondary A – *‘Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.’*

This is considered to be located at such a distance from the subject site so as not to be impacted by the proposed development.

5.7.2. Aquifer within bedrock geology

The geological classification for groundwater vulnerability within the bedrock geology on site is designated as a Secondary ‘A’ aquifer – *“Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers”.*

5.7.3. Groundwater Vulnerability and Soil Leaching Potential

The on site ground water and soil vulnerability category is listed as high with intermediate leaching. The flow mechanism is described as well connected fractures.

5.7.4. Water Abstraction Licenses

There are no groundwater abstraction license recorded within 250 metres of the site.

5.7.5. Source Protection Zones

There are no Source Protection zones within confined aquifers located within 250.0 metres of the site.

are no Source Protection zones within confined aquifers located within 250 metres of the site.

5.8. Hydrology

There are no surface water features or water networks within 250m of the site.

5.9. Flooding

There are no records of any flooding events, flood defences or areas benefitting from flood defences within 250 metres of the site.

5.10. Designated Environmentally Sensitive Sites

There are no Designated Environmentally Sensitive Sites within 500 metres.

5.11. **Soil Chemistry**

The British Geological Survey (BGS) provides estimated values for likely background concentrations of harmful elements such as Arsenic, Cadmium, Lead and Nickel in topsoil. None of these contaminants are estimated to be at levels onsite significantly elevated above background levels.

6. CONCEPTUAL SITE MODEL

6.1. Introduction

The legal definition of Contaminated Land, taken from section 78A(2) of Part IIA of The Environmental Protection Act (1990), defines contaminated land as:

“...Any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land that:

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

b) pollution of controlled waters is being likely to be caused.”

The assessment of contaminated land uses the concept of the 'pollutant linkage', which requires the following elements (as defined in CLR11, 2004):

Contaminant

- A substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.

Pathway

- A route or means by which a receptor can be exposed to, or affected by, a contaminant.

Receptor

- In general terms, something that could be adversely affected by a contaminant, such as people, an ecological system, property, or a water body.

Each of these three elements can exist independently without creating an associated **risk**. Only when all three are present, so that a particular contaminant affects a particular receptor through a particular pathway, is it deemed that there is a potential **pollutant linkage**.

For the risk posed by a pollutant linkage to be correctly classified, each element must be identified and understood.

The planning regime uses a slightly different definition of contaminated land, in order to reflect the different context and scope of planning control.

The term '**land affected by contamination**' is used, which is intended to cover cases where:

'the actual or suspected presence of substances in, on or under the land may cause risks to people, property, human activities or the environment, regardless of whether or not the land meets the statutory definition in Part IIA.' (Planning Policy 23, 2004)

A significant difference is that under the planning regime, risks have to be assessed based upon the **'suitable for use'** approach, where it is ensured that land *'is suitable for its current and any new use, as planning permission is given for that new use'* (DEFRA Circular 01/2006, 2006).

It should also be noted that for planning purposes, it is immaterial whether the presence of 'contaminants' arise from anthropogenic or 'human' activity, or are naturally occurring.

6.2. **Hazard Identification**

We have examined the information supplied by the Groundsure Report, including the historical mapping and other site- specific information. We have also undertaken a site walkover.

Mining Searches UK have not seen a desktop metalliferous mining search carried out for this site and an assessment of the metalliferous mining risk should be considered.

6.3. **Contaminated Land**

From an examination of the information, the following potential *'contaminants'* have been identified:

- **Radon gas**
- **Heavy Metals**
- **Vanadium and Coal Products**

6.4. **Heavy metal and Vanadium/Coal Products**

The potential contaminants above have been identified using the documentary evidence throughout this report. However, having made a site visit and reviewed the proposed land use it is considered that there is no feasible pathways for these potential contaminants. The railway lies at a lower elevation below the site within a railway cutting. The site itself is either covered by buildings or a continuous asphalt carpark which is due to stay in place. There are no plans at this stage for the new flats to have any softscape areas outside. Therefore, with regards heavy metals or contaminants related to the railway, the site should be considered suitable for the proposed use.

The following potential *'pathways'* have been identified:

- **Migration through ground**

The following potential *'receptors'* can be considered:

- **End users of the site within confined structures**

The identified contaminants, pathways and receptors combine to create the following potential 'pollutant linkages':

Contaminant(s)	Pathway(s)	Receptor(s)
Radon	Migration through ground	End users

7. RISK ASSESSMENT

The table below shows the pollution linkages identified in the previous section, along with a magnitude of risk for each identified using the guidelines outlined in CIRIA (C552) Contaminated Land Risk Assessment: A Guide to Good Practice. A description of how we have arrived at the magnitude of risk for each pollution linkage is described in Appendix D.

Contaminant(s)	Pathway(s)	Receptor(s)	Risk
Radon	Migration through ground	End users	Medium

The initial conceptual site model therefore identifies the following risks to the named receptors:

End Users

For sealed residential dwellings, full radon protective measures would be required for the construction phase of the proposed development. However dependent on the construction details of the proposed development, and levels of ventilation, further radon protection measure may not be required.

Site Workers

Site workers are potentially exposed to contamination on the site through direct contact with the soil. At this stage of the assessment there is considered to be a low risk associated with site workers.

Flora

The potential for contamination to flora on and adjacent to the site both presently and following completion of site works is considered to be low risk. No contaminants potentially affecting the flora have been identified.

Surface Waters

The potential for contamination of surface waters is considered to be medium. Sufficient precautions should be made during the construction phase of the development to avoid potential risk to the surface water near the northern boundary.

Construction Materials

The potential for contamination of construction material on site is considered to be low.

8. CONCLUSIONS

A Contaminated Land Desk Study Phase I Report has been carried out for the Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT.

The initial Contaminated Land Desk Study Phase I has identified a potential pollutant linkage to be present onsite in terms of radon, and full protective measure may be required as part of the proposed development and dependent on construction design.

Currently, no other further action as regards to the contaminated land aspects is considered necessary.

9. LIMITATIONS

In providing this assessment, the following should be realised:

This report provides a compilation and interpretation of information within our own organisation and includes information provided by third parties. However, it must be accepted that such records may not be accurate or totally complete and therefore we cannot be held responsible for any omissions or errors in the information upon which our interpretation has been based.

Where outside information, expertise or analysis has been used, Mining Searches UK hold no liability as to the accuracy of the information provided or to the judgement made. In addition, we do not purport to be responsible for the accurate calibration of equipment or for any errors or omissions in the results provided.

The reporting has been carried out on the basis of present framework and understanding of ground gas hazards. We can hold no responsibility for any future changes in the legislation framework, which may alter the outcome of this report. Should future legislation change, the subject report may need to be reviewed at that time.

This report should not be used or relied upon for neighbouring properties.

This assessment has been based on a review of historical site data both from in house and external sources, and therefore our opinions given may be conjectured or based upon inferences given the information available to us.

No liability will be held by ourselves to any persons not party to the commissioning of this report.

We trust that the above is of assistance and assure you of our best attention to any future requirements. Please do not hesitate to contact us should you have any query or require any further assistance.

Yours faithfully,

Giles Maund

Giles Maund | Geologist | **Mining Searches UK**



Plate 1: A photograph showing the paved driveway extending of coach lane. The lane also provided access to some other nearby dwellings.



Plate 2: A view looking west towards the asphalt car park, The double garage lies to the north of the car parking area. Mature trees lined the site.


 Mining Searches UK	Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT		
	Contaminated Land Desk Study Phase I Report		
	Report: 340052	Plates: 1-2	Scale: NTS
	Size: A4	Date: 02/08/2021	Taken by: GM



Plate 3: A view looking west at the car parking area which makes up most of the site. While there were potential contaminants indicated within the phase I report the asphalt is considered to break any contamination pathway and as MSUK understand this asphalt is due to stay in situ.



Plate 4: A view looking north towards the double garage.


 Mining Searches UK	Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT		
	Contaminated Land Desk Study Phase I Report		
	Report: 340052	Plates: 3-4	Scale: NTS
	Size: A4	Date: 02/08/2021	Taken by: GM



Plate 5: A view looking towards the east. The original stone built part of the building is in the background and in the foreground is the modern single storey extension.



Plate 6: A view looking northeast at the main part of the dwelling/building.


 Mining Searches UK	Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT		
	Contaminated Land Desk Study Phase I Report		
	Report: 340052	Plates: 5-6	Scale: NTS
	Size: A4	Date: 02/08/2021	Taken by: GM



Plate 7: Front of Parc Vean House

Plate 8: The eastern end of the property. A thin concrete path was found around the entire dwelling. Church Lane lies to the right of this photo beyond the boundary wall.




 Mining Searches UK	Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT		
	Contaminated Land Desk Study Phase I Report		
	Report: 340052	Plates: 7-8	Scale: NTS
	Size: A4	Date: 02/08/2021	Taken by: GM



Plate 9: A concrete pathway found to run along the back (north) of the property) The concrete was seen to be in good condition.

Plate 10: A small block building was observed to the north of the main dwelling close to the double garage.



 <p>Mining Searches UK</p>	Parc Vean, Coach Lane, Redruth, Cornwall TR15 2TT		
	Contaminated Land Desk Study Phase I Report		
	Report: 340052	Plates: 9-10	Scale: NTS
	Size: A4	Date: 02/08/2021	Taken by: GM

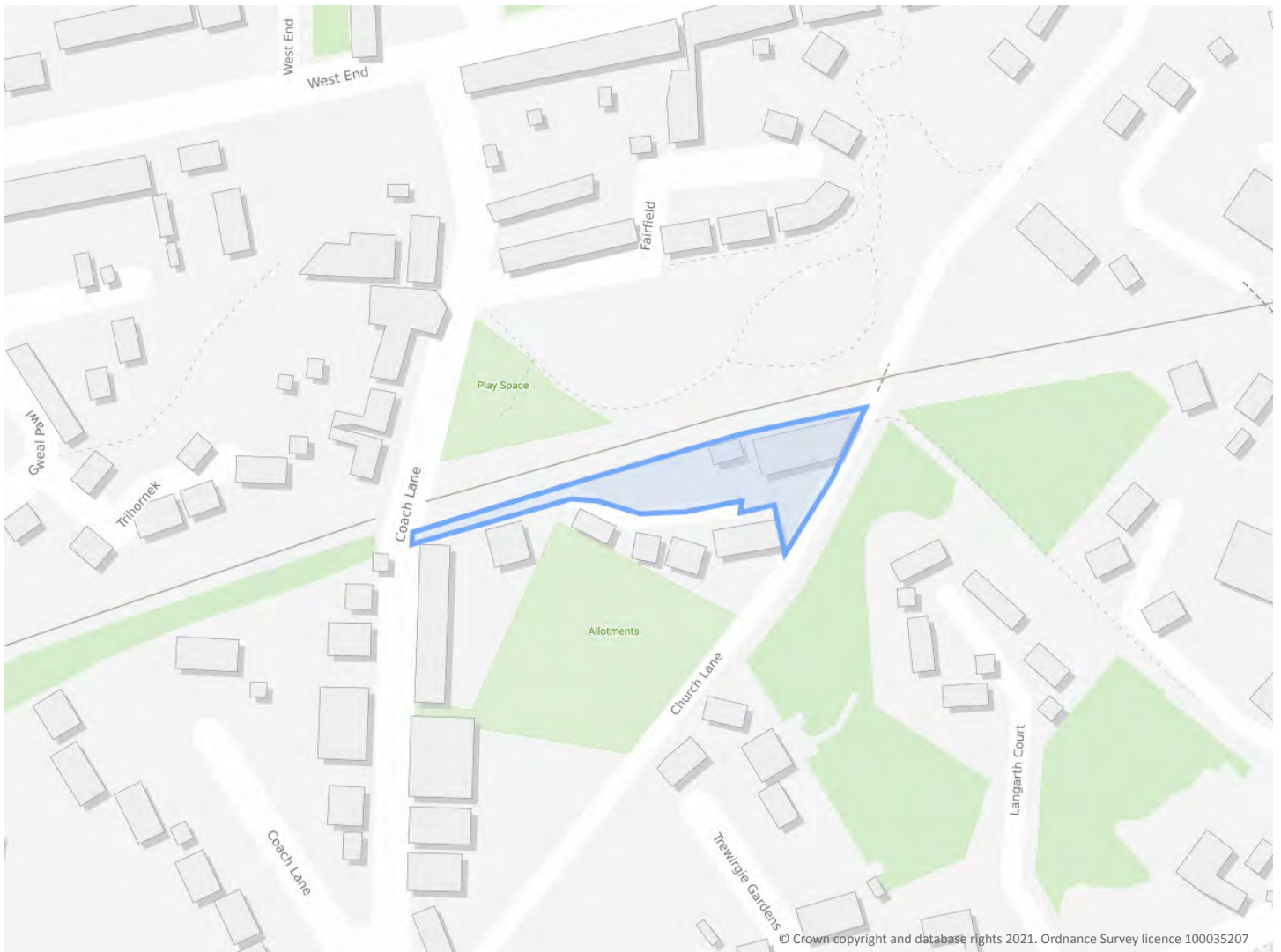
CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Order Details

Date: 02/08/2021
Your ref: 340052
Our Ref: GSMSU-8091035
Client: Mining Searches UK

Site Details

Location: 169531 041745
Area: 0.22 ha
Authority: [Cornwall Council \(Unitary\)](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	4	47	101	-
20	1.2	<u>Historical tanks</u>	0	0	5	16	-
21	1.3	<u>Historical energy features</u>	0	0	1	17	-
22	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	<u>Historical garages</u>	0	0	2	4	-
23	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
24	2.1	<u>Historical industrial land uses</u>	0	5	50	111	-
31	2.2	<u>Historical tanks</u>	0	0	5	23	-
32	2.3	<u>Historical energy features</u>	0	0	2	28	-
33	2.4	Historical petrol stations	0	0	0	0	-
33	2.5	<u>Historical garages</u>	0	0	3	6	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	0	-
36	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
36	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	1	0	-
36	3.5	Historical waste sites	0	0	0	0	-
36	3.6	Licensed waste sites	0	0	0	0	-
37	3.7	<u>Waste exemptions</u>	0	0	0	17	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
39	4.1	<u>Recent industrial land uses</u>	0	0	7	-	-
40	4.2	Current or recent petrol stations	0	0	0	0	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
41	4.5	Sites determined as Contaminated Land	0	0	0	0	-



41	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
42	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
42	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
42	4.12	<u>Radioactive Substance Authorisations</u>	0	0	1	0	-
42	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	List 1 Dangerous Substances	0	0	0	0	-
43	4.17	List 2 Dangerous Substances	0	0	0	0	-
43	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	1	-
44	4.19	Pollution inventory substances	0	0	0	0	-
44	4.20	Pollution inventory waste transfers	0	0	0	0	-
44	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
45	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
46	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
48	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
49	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
49	5.5	Groundwater vulnerability- local information	None (within 0m)				
50	5.6	<u>Groundwater abstractions</u>	0	0	0	10	1
53	5.7	<u>Surface water abstractions</u>	0	0	0	0	4
54	5.8	Potable abstractions	0	0	0	0	0
54	5.9	Source Protection Zones	0	0	0	0	-
55	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
56	6.1	Water Network (OS MasterMap)	0	0	0	-	-



56	6.2	Surface water features	0	0	0	-	-
57	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
57	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
58	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
59	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
59	7.2	Historical Flood Events	0	0	0	-	-
59	7.3	Flood Defences	0	0	0	-	-
59	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
60	7.5	Flood Storage Areas	0	0	0	-	-
61	7.6	Flood Zone 2	None (within 50m)				
61	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
62	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
64	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
65	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	2
66	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
66	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
66	10.4	Special Protection Areas (SPA)	0	0	0	0	0
66	10.5	National Nature Reserves (NNR)	0	0	0	0	0
67	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
67	10.7	Designated Ancient Woodland	0	0	0	0	0
67	10.8	Biosphere Reserves	0	0	0	0	0
67	10.9	Forest Parks	0	0	0	0	0
68	10.10	Marine Conservation Zones	0	0	0	0	0
68	10.11	Green Belt	0	0	0	0	0
68	10.12	Proposed Ramsar sites	0	0	0	0	0



68	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
68	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
69	10.15	Nitrate Sensitive Areas	0	0	0	0	0
69	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
70	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
71	10.18	<u>SSSI Units</u>	0	0	0	0	2
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
73	11.1	<u>World Heritage Sites</u>	1	0	0	-	-
74	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
74	11.3	National Parks	0	0	0	-	-
74	11.4	<u>Listed Buildings</u>	0	0	7	-	-
75	11.5	<u>Conservation Areas</u>	0	0	1	-	-
75	11.6	Scheduled Ancient Monuments	0	0	0	-	-
75	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
77	12.1	<u>Agricultural Land Classification</u>	Non Agricultural (within 250m)				
78	12.2	Open Access Land	0	0	0	-	-
78	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
78	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
79	13.1	<u>Priority Habitat Inventory</u>	0	2	4	-	-
80	13.2	Habitat Networks	0	0	0	-	-
80	13.3	Open Mosaic Habitat	0	0	0	-	-
80	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
81	14.1	<u>10k Availability</u>	Identified (within 500m)				
82	14.2	Artificial and made ground (10k)	0	0	0	0	-
83	14.3	Superficial geology (10k)	0	0	0	0	-



83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	Bedrock geology (10k)	0	0	0	0	-
84	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
85	15.1	<u>50k Availability</u>	Identified (within 500m)				
86	15.2	Artificial and made ground (50k)	0	0	0	0	-
86	15.3	Artificial ground permeability (50k)	0	0	-	-	-
87	15.4	<u>Superficial geology (50k)</u>	0	0	0	1	-
88	15.5	Superficial permeability (50k)	None (within 50m)				
88	15.6	Landslip (50k)	0	0	0	0	-
88	15.7	Landslip permeability (50k)	None (within 50m)				
89	15.8	<u>Bedrock geology (50k)</u>	1	0	1	4	-
90	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
90	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	1	0	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
91	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
92	17.1	<u>Shrink swell clays</u>	Negligible (within 50m)				
93	17.2	<u>Running sands</u>	Negligible (within 50m)				
94	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
95	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
96	17.5	<u>Landslides</u>	Very low (within 50m)				
97	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
98	18.1	Natural cavities	0	0	0	0	-
99	18.2	<u>BritPits</u>	0	0	2	1	-
99	18.3	<u>Surface ground workings</u>	0	5	28	-	-
101	18.4	<u>Underground workings</u>	0	0	2	16	140
107	18.5	Historical Mineral Planning Areas	0	0	0	0	-



107	18.6	<u>Non-coal mining</u>	2	0	2	6	15
110	18.7	<u>Mining cavities</u>	0	0	3	5	18
113	18.8	JPB mining areas	None (within 0m)				
113	18.9	Coal mining	None (within 0m)				
113	18.10	Brine areas	None (within 0m)				
113	18.11	Gypsum areas	None (within 0m)				
114	18.12	<u>Tin mining</u>	Identified (within 0m)				
114	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
115	19.1	<u>Radon</u>	Greater than 30% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
116	20.1	<u>BGS Estimated Background Soil Chemistry</u>	2	0	-	-	-
116	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
116	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
117	21.1	Underground railways (London)	0	0	0	-	-
117	21.2	Underground railways (Non-London)	0	0	0	-	-
118	21.3	Railway tunnels	0	0	0	-	-
118	21.4	<u>Historical railway and tunnel features</u>	0	0	12	-	-
119	21.5	Royal Mail tunnels	0	0	0	-	-
119	21.6	<u>Historical railways</u>	0	0	1	-	-
119	21.7	<u>Railways</u>	0	10	7	-	-
120	21.8	Crossrail 1	0	0	0	0	-
120	21.9	Crossrail 2	0	0	0	0	-
120	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 27/06/2019

Site Area: 0.22ha



Recent site history - 2016 aerial photograph



Capture Date: 15/08/2016

Site Area: 0.22ha



Recent site history - 2009 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 10/09/2009

Site Area: 0.22ha



Recent site history - 2005 aerial photograph



Capture Date: 09/06/2005

Site Area: 0.22ha



Recent site history - 1999 aerial photograph

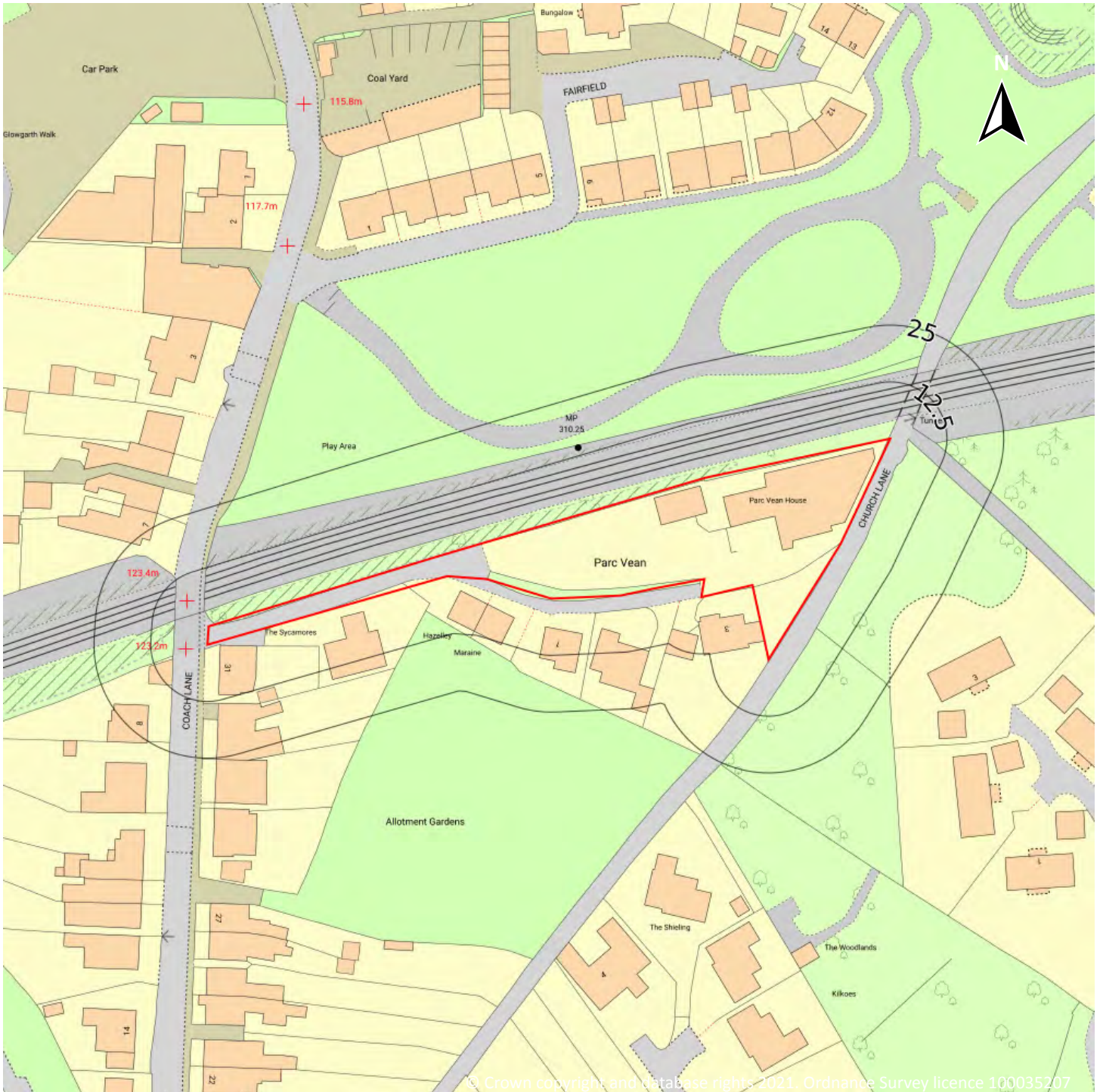


Capture Date: 02/09/1999

Site Area: 0.22ha



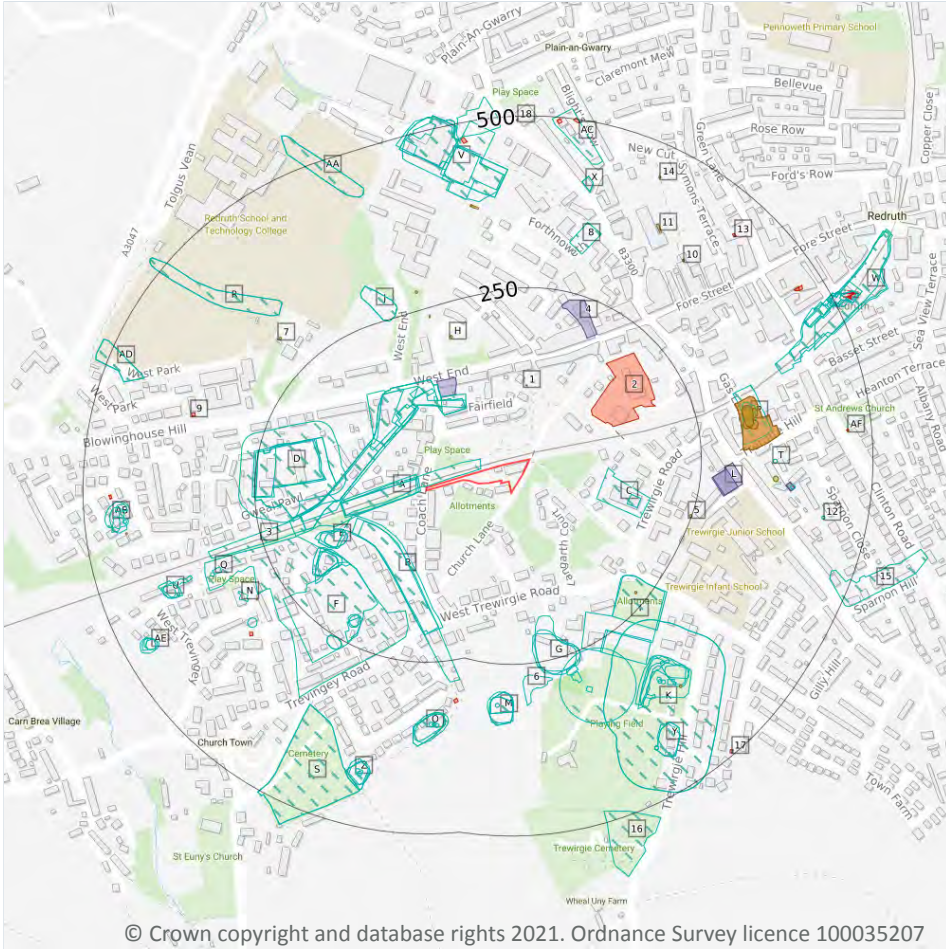
OS MasterMap site plan



Site Area: 0.22ha



1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

© Crown copyright and database rights 2021. Ordnance Survey licence 100035207

1.1 Historical industrial land uses

Records within 500m **152**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	2m N	Cuttings	1879	39600

ID	Location	Land use	Dates present	Group ID
A	9m W	Cuttings	1958	52269
A	11m W	Cuttings	1976 - 1990	59129
A	15m W	Cuttings	1906	60386
B	80m SW	Cuttings	1938 - 1958	54109
A	84m NW	Railway Sidings	1958	40254
B	84m SW	Cuttings	1906	37675
B	84m SW	Cuttings	1879	60099
A	88m NW	Railway Sidings	1879	46452
A	88m NW	Railway Sidings	1906	48995
A	88m NW	Coal Yard	1879	29888
A	88m NW	Cuttings	1879	51163
A	93m N	Coal Store	1879	24635
A	94m NW	Railway Sidings	1938	45185
A	95m N	Railway Building	1906	43887
A	95m N	Railway Sidings	1938	55515
A	96m N	Railway Building	1958	45673
C	112m E	Telecomm Exchange	1990	36845
A	116m N	Railway Building	1906	28490
D	118m W	Hospital	1958	43699
A	130m N	Railway Building	1906	28489
D	131m W	Hospital	1976	50180
D	131m W	Hospital	1990	58055
E	132m SW	Unspecified Heap	1990	45291
E	132m SW	Unspecified Heap	1976	59991
E	132m SW	Gravel Pit	1958	32275
E	135m SW	Refuse Heap	1906 - 1938	40180
E	135m SW	Unspecified Heap	1879	42764
D	147m W	Hospital	1906	49842



ID	Location	Land use	Dates present	Group ID
D	149m W	Hospital	1879	41048
D	150m W	Women Hospital	1938	25330
F	153m SW	Disused Tin and Copper Wheal	1938	22244
F	154m SW	Disused Tin and Copper	1906	59237
E	154m SW	Disused Tin and Copper	1879	57464
C	156m SE	Telephone Exchange	1976	32370
E	158m SW	Unspecified Heap	1958	53428
E	163m SW	Unspecified Heap	1906	43033
E	163m SW	Unspecified Heap	1879	43497
E	164m SW	Unspecified Heap	1938	47509
3	185m W	Cuttings	1879	53042
G	185m S	Unspecified Heap	1879	36247
I	203m SE	Nurseries	1906	59548
I	203m SE	Nursery	1879	23600
G	204m S	Refuse Heap	1906	61191
F	207m SW	Refuse Heap	1958	58724
F	207m SW	Refuse Heap	1906	38824
F	207m SW	Unspecified Heap	1879	36251
G	209m S	Refuse Heap	1938 - 1958	57463
I	243m SE	Nurseries	1938	54861
J	248m N	Unspecified Heap	1976	38247
J	248m N	Unspecified Heap	1990	58456
F	251m SW	Refuse Heap	1906	21500
F	251m SW	Unspecified Heap	1879	36250
G	253m SE	Unspecified Old Shaft	1958	40009
K	261m SE	Disused Tin Mine	1906	45479
K	261m SE	Disused Tin Mine	1879	58998
G	265m S	Unspecified Old Shaft	1906	60704



ID	Location	Land use	Dates present	Group ID
6	266m S	Unspecified Ground Workings	1879	20579
G	278m S	Engine Houses	1879	22458
M	290m S	Unspecified Heap	1879	55858
M	290m S	Refuse Heap	1906	59828
M	291m S	Refuse Heap	1938 - 1958	56574
M	298m S	Unspecified Heap	1990	39360
M	298m S	Unspecified Heap	1976	47088
N	301m SW	Engine House	1879	31311
G	303m S	Unspecified Old Shaft	1938	44415
M	307m S	Unspecified Shaft	1879	27425
8	308m N	Timber Yard	1879	25272
P	311m E	Unspecified Commercial/Industrial	1879	30834
N	311m SW	Unspecified Heap	1879	36264
K	315m SE	Refuse Heaps	1938	37033
K	316m SE	Unspecified Ground Workings	1879	20572
P	317m E	Unspecified Tanks	1879	40942
P	317m E	Unspecified Tanks	1906	59126
K	318m SE	Refuse Heap	1906	54563
Q	321m W	Engine House	1879	31116
P	321m E	Unspecified Tanks	1958	41928
P	321m E	Unspecified Tanks	1976	58100
O	323m S	Refuse Heap	1938	41842
O	324m S	Refuse Heap	1958	53789
K	325m SE	Refuse Heap	1958	43902
O	326m S	Unspecified Heap	1879	36249
O	326m S	Refuse Heap	1906	44007
K	329m SE	Chimney	1879	24994
R	331m NW	Unspecified Ground Workings	1990	40339



ID	Location	Land use	Dates present	Group ID
R	331m NW	Unspecified Ground Workings	1976	60590
Q	332m W	Unspecified Shaft	1879	26319
O	337m S	Unspecified Old Shaft	1938	54421
O	339m S	Unspecified Shafts	1879	18554
O	339m S	Unspecified Old Shaft	1906	51919
K	339m SE	Refuse Heap	1906	42532
O	340m S	Unspecified Old Shaft	1958	42810
K	344m SE	Unspecified Old Shaft	1938	40655
K	347m SE	Unspecified Old Shaft	1906	43816
K	350m SE	Unspecified Old Shaft	1958	59026
S	354m SW	Cemetery	1990	43384
S	354m SW	Cemetery	1976	54510
K	355m SE	Engine House	1879	31308
T	355m E	Unspecified Shaft	1879	27423
U	364m W	Unspecified Heaps	1879	31662
T	382m E	Unspecified Shaft	1879	27422
V	382m N	Brewery	1990	44772
W	383m E	Railway Sidings	1906 - 1938	38337
V	385m N	Unspecified Foundry	1879	19550
V	385m N	Brewery	1906	54382
U	386m W	Gravel Pit	1958	32273
U	388m W	Refuse Heap	1906 - 1938	56524
V	390m N	Brewery	1976	56891
X	399m N	Police Station	1976	56947
X	399m N	Police Station	1990	59180
Y	402m SE	Refuse Heap	1938 - 1958	53673
Z	403m S	Unspecified Old Shaft	1938	53180
Z	404m S	Refuse Heap	1958	47523



ID	Location	Land use	Dates present	Group ID
Y	406m SE	Unspecified Heap	1879	36246
Y	406m SE	Refuse Heap	1906	58654
Z	406m S	Unspecified Heap	1879	36248
Z	406m S	Refuse Heap	1906	44734
W	411m NE	Railway Sidings	1879	56428
V	412m N	Brewery	1938 - 1958	58473
Z	417m S	Unspecified Old Shaft	1938 - 1958	59780
Z	420m S	Unspecified Old Shaft	1906	43021
Y	425m SE	Unspecified Shaft	1879	38792
Y	425m SE	Unspecified Shaft	1906	50904
AA	433m N	Unspecified Ground Workings	1990	47968
AA	433m N	Unspecified Ground Workings	1976	59859
12	434m E	Unspecified Shaft	1879	27421
AB	434m W	Refuse Heap	1906 - 1938	55120
AB	436m W	Unspecified Heap	1879	36258
AB	436m W	Unspecified Pit	1879	34039
AB	439m W	Unspecified Shaft	1879	26318
AC	439m N	Nursery	1879	23599
AB	440m W	Gravel Pit	1958	32272
V	440m N	Malthouse	1938	28049
AD	441m W	Unspecified Heap	1976	45779
AD	441m W	Unspecified Heap	1990	55730
W	444m E	Railway Sidings	1958	42103
V	445m N	Unspecified Malthouse	1879	49995
V	445m N	Unspecified Malthouse	1906	55677
W	447m NE	Railway Station	1938	43207
W	447m NE	Railway Building	1906	28488
AE	448m SW	Unspecified Pit	1938 - 1958	51142



ID	Location	Land use	Dates present	Group ID
AE	450m SW	Unspecified Pit	1906	48194
AE	452m SW	Unspecified Ground Workings	1879	20574
AE	458m SW	Refuse Heap	1906	21499
15	469m E	Tin Stream Works	1879	30915
W	474m NE	Goods Shed	1879	25212
V	478m N	Brewery	1879	54373
16	483m S	Burial Ground	1976	33585
W	487m NE	Railway Station	1958	59171
W	491m NE	Railway Station	1906	49135
W	493m NE	Railway Station	1879	47543
W	495m NE	Railway Station	1974 - 1992	49016

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

21

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
1	107m N	Tank or Trough	1880	4560
H	198m N	Unspecified Tank	1908	3647
I	231m SE	Unspecified Tank	1908	3639
H	236m N	Unspecified Tank	1880	3649
5	247m E	Unspecified Tank	1908	3644
H	275m N	Unspecified Tank	1908	3650
N	292m SW	Unspecified Tank	1880	3640



ID	Location	Land use	Dates present	Group ID
7	303m NW	Unspecified Tank	1908	3651
P	309m E	Gas Works	1880 - 1908	5573
P	315m E	Gasholder	1880 - 1908	6260
P	316m E	Gasholder	1880 - 1908	6738
P	317m E	Gasholders	1966 - 1967	5853
T	356m E	Unspecified Tank	1880	3646
10	364m NE	Unspecified Tank	1908	3648
V	372m N	Unspecified Tank	1967	5345
K	373m SE	Unspecified Tank	1880	3636
V	377m N	Unspecified Tank	1975	6162
11	381m NE	Unspecified Tank	1967 - 1989	6412
AB	440m W	Unspecified Tank	1908	3643
14	451m NE	Unspecified Tank	1989	3691
18	493m N	Unspecified Tank	1880	3690

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

18

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
2	112m NE	Electricity House	1966 - 1967	2152
O	306m S	Electricity Substation	1989	1099
P	309m E	Gas Works	1880 - 1908	1978
P	315m E	Gasholder	1880 - 1908	2071



ID	Location	Land use	Dates present	Group ID
P	316m E	Gasholder	1880 - 1908	2091
P	317m E	Gasholders	1966 - 1967	1862
N	327m SW	Electricity Substation	1979 - 1989	1804
9	353m W	Electricity Substation	1979 - 1989	2460
13	440m NE	Electricity Substation	1979 - 1989	2465
W	457m NE	Electricity Substation	1967	1835
AB	458m W	Electricity Substation	1967 - 1996	2155
W	459m NE	Electricity Substation	1979 - 1989	1313
AF	464m E	Electricity Substation	1994	1953
AF	464m E	Electricity Substation	1989	2039
V	470m N	Electricity Substation	1967 - 1975	1500
AC	491m N	Electricity Substation	1967	1089
17	492m SE	Electricity Substation	1977	1098
AC	495m N	Electricity Substation	1989	1090

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

6

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-



grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	118m N	Garage	1966 - 1967	656
4	195m NE	Garage	1989	365
L	267m E	Garage	1967 - 1989	719
L	268m E	Garage	1966	489
T	375m E	Garage	1989	472
T	376m E	Garage	1966 - 1967	722

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

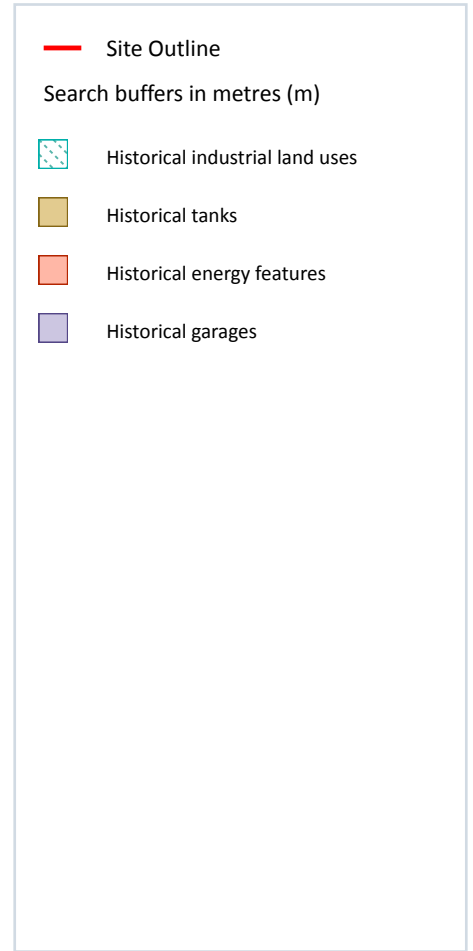
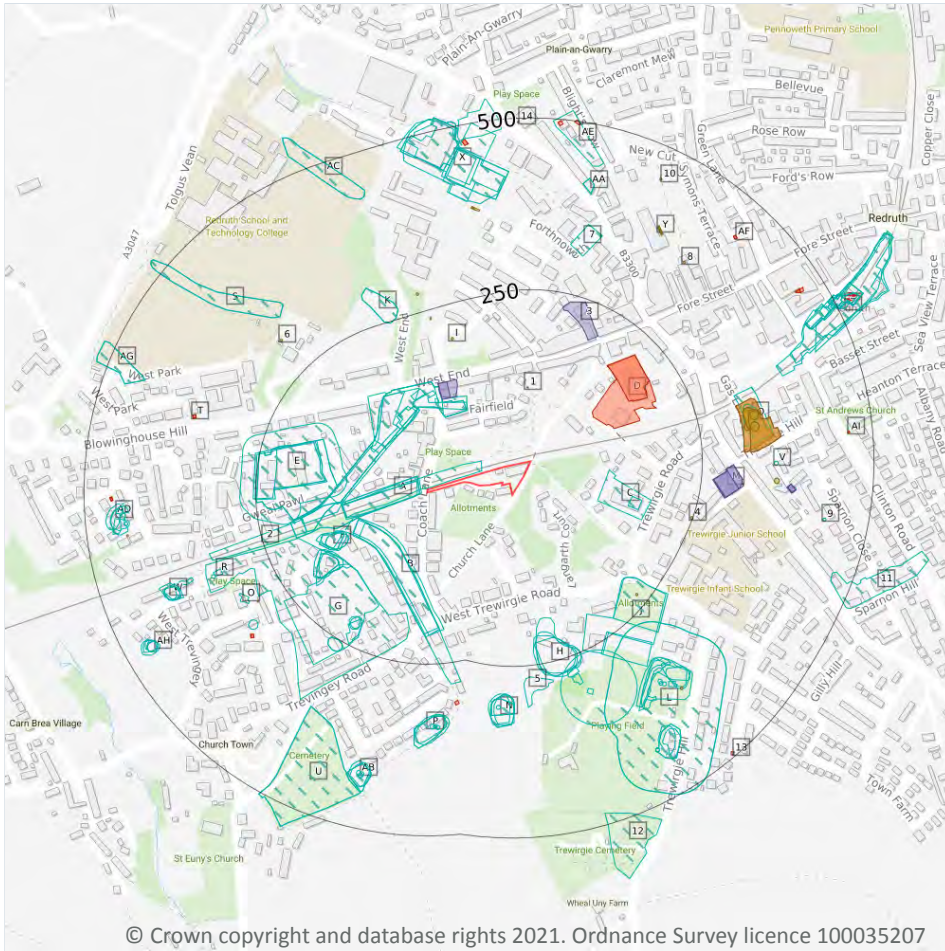
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

166

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24**

ID	Location	Land Use	Date	Group ID
A	2m N	Cuttings	1879	39600
A	9m W	Cuttings	1958	52269
A	11m W	Cuttings	1990	59129

ID	Location	Land Use	Date	Group ID
A	11m W	Cuttings	1976	59129
A	15m W	Cuttings	1906	60386
B	80m SW	Cuttings	1958	54109
A	84m NW	Railway Sidings	1958	40254
B	84m SW	Cuttings	1906	37675
B	84m SW	Cuttings	1938	54109
B	84m SW	Cuttings	1879	60099
A	88m NW	Railway Sidings	1906	48995
A	88m NW	Railway Sidings	1879	46452
A	88m NW	Coal Yard	1879	29888
A	88m NW	Cuttings	1879	51163
A	93m N	Coal Store	1879	24635
A	94m NW	Railway Sidings	1938	45185
A	95m N	Railway Building	1906	43887
A	95m N	Railway Sidings	1938	55515
A	96m N	Railway Building	1958	45673
C	112m E	Telecomm Exchange	1990	36845
A	116m N	Railway Building	1906	28490
E	118m W	Hospital	1958	43699
A	130m N	Railway Building	1906	28489
E	131m W	Hospital	1990	58055
E	131m W	Hospital	1976	50180
F	132m SW	Unspecified Heap	1990	45291
F	132m SW	Unspecified Heap	1976	59991
F	132m SW	Gravel Pit	1958	32275
F	135m SW	Refuse Heap	1906	40180
F	135m SW	Unspecified Heap	1879	42764
F	138m SW	Refuse Heap	1938	40180



ID	Location	Land Use	Date	Group ID
E	147m W	Hospital	1906	49842
E	149m W	Hospital	1879	41048
E	150m W	Women Hospital	1938	25330
G	153m SW	Disused Tin and Copper Wheal	1938	22244
G	154m SW	Disused Tin and Copper	1906	59237
F	154m SW	Disused Tin and Copper	1879	57464
C	156m SE	Telephone Exchange	1976	32370
F	158m SW	Unspecified Heap	1958	53428
F	163m SW	Unspecified Heap	1906	43033
F	163m SW	Unspecified Heap	1879	43497
F	164m SW	Unspecified Heap	1938	47509
2	185m W	Cuttings	1879	53042
H	185m S	Unspecified Heap	1879	36247
J	203m SE	Nurseries	1906	59548
J	203m SE	Nursery	1879	23600
H	204m S	Refuse Heap	1906	61191
G	207m SW	Refuse Heap	1958	58724
G	207m SW	Refuse Heap	1906	38824
G	207m SW	Unspecified Heap	1879	36251
H	209m S	Refuse Heap	1938	57463
H	216m S	Refuse Heap	1958	57463
J	243m SE	Nurseries	1938	54861
K	248m N	Unspecified Heap	1990	58456
K	248m N	Unspecified Heap	1976	38247
G	251m SW	Refuse Heap	1906	21500
G	251m SW	Unspecified Heap	1879	36250
H	253m SE	Unspecified Old Shaft	1958	40009
L	261m SE	Disused Tin Mine	1906	45479



ID	Location	Land Use	Date	Group ID
L	261m SE	Disused Tin Mine	1879	58998
H	265m S	Unspecified Old Shaft	1906	60704
5	266m S	Unspecified Ground Workings	1879	20579
H	278m S	Engine Houses	1879	22458
N	290m S	Refuse Heap	1906	59828
N	290m S	Unspecified Heap	1879	55858
N	291m S	Refuse Heap	1938	56574
N	293m S	Refuse Heap	1958	56574
N	298m S	Unspecified Heap	1990	39360
N	298m S	Unspecified Heap	1976	47088
O	301m SW	Engine House	1879	31311
H	303m S	Unspecified Old Shaft	1938	44415
N	307m S	Unspecified Shaft	1879	27425
7	308m N	Timber Yard	1879	25272
Q	311m E	Unspecified Commercial/Industrial	1879	30834
O	311m SW	Unspecified Heap	1879	36264
L	315m SE	Refuse Heaps	1938	37033
L	316m SE	Unspecified Ground Workings	1879	20572
Q	317m E	Unspecified Tanks	1906	59126
Q	317m E	Unspecified Tanks	1879	40942
L	318m SE	Refuse Heap	1906	54563
R	321m W	Engine House	1879	31116
Q	321m E	Unspecified Tanks	1976	58100
Q	321m E	Unspecified Tanks	1958	41928
P	323m S	Refuse Heap	1938	41842
P	324m S	Refuse Heap	1958	53789
L	325m SE	Refuse Heap	1958	43902
P	326m S	Refuse Heap	1906	44007



ID	Location	Land Use	Date	Group ID
P	326m S	Unspecified Heap	1879	36249
L	329m SE	Chimney	1879	24994
S	331m NW	Unspecified Ground Workings	1990	40339
S	331m NW	Unspecified Ground Workings	1976	60590
R	332m W	Unspecified Shaft	1879	26319
P	337m S	Unspecified Old Shaft	1938	54421
P	339m S	Unspecified Old Shaft	1906	51919
P	339m S	Unspecified Shafts	1879	18554
L	339m SE	Refuse Heap	1906	42532
P	340m S	Unspecified Old Shaft	1958	42810
L	344m SE	Unspecified Old Shaft	1938	40655
L	347m SE	Unspecified Old Shaft	1906	43816
L	350m SE	Unspecified Old Shaft	1958	59026
U	354m SW	Cemetery	1990	43384
U	354m SW	Cemetery	1976	54510
L	355m SE	Engine House	1879	31308
V	355m E	Unspecified Shaft	1879	27423
W	364m W	Unspecified Heaps	1879	31662
V	382m E	Unspecified Shaft	1879	27422
X	382m N	Brewery	1990	44772
Z	383m E	Railway Sidings	1906	38337
X	385m N	Brewery	1906	54382
X	385m N	Unspecified Foundry	1879	19550
W	386m W	Gravel Pit	1958	32273
W	388m W	Refuse Heap	1906	56524
W	389m W	Refuse Heap	1938	56524
X	390m N	Brewery	1976	56891
AA	399m N	Police Station	1990	59180



ID	Location	Land Use	Date	Group ID
AA	399m N	Police Station	1976	56947
L	402m SE	Refuse Heap	1938	53673
AB	403m S	Unspecified Old Shaft	1938	53180
AB	404m S	Refuse Heap	1958	47523
L	406m SE	Refuse Heap	1906	58654
L	406m SE	Unspecified Heap	1879	36246
AB	406m S	Refuse Heap	1906	44734
AB	406m S	Unspecified Heap	1879	36248
L	411m SE	Refuse Heap	1958	53673
Z	411m NE	Railway Sidings	1879	56428
X	412m N	Brewery	1938	58473
X	412m N	Brewery	1958	58473
AB	417m S	Unspecified Old Shaft	1938	59780
AB	418m S	Unspecified Old Shaft	1958	59780
AB	420m S	Unspecified Old Shaft	1906	43021
L	425m SE	Unspecified Shaft	1906	50904
L	425m SE	Unspecified Shaft	1879	38792
AC	433m N	Unspecified Ground Workings	1990	47968
AC	433m N	Unspecified Ground Workings	1976	59859
9	434m E	Unspecified Shaft	1879	27421
AD	434m W	Refuse Heap	1938	55120
AD	436m W	Unspecified Heap	1879	36258
AD	436m W	Unspecified Pit	1879	34039
AD	439m W	Unspecified Shaft	1879	26318
AE	439m N	Nursery	1879	23599
AD	440m W	Gravel Pit	1958	32272
X	440m N	Malthouse	1938	28049
AG	441m W	Unspecified Heap	1990	55730



ID	Location	Land Use	Date	Group ID
AG	441m W	Unspecified Heap	1976	45779
AD	444m W	Refuse Heap	1906	55120
Z	444m E	Railway Sidings	1958	42103
X	445m N	Unspecified Malthouse	1906	55677
X	445m N	Unspecified Malthouse	1879	49995
Z	447m NE	Railway Station	1938	43207
Z	447m NE	Railway Building	1906	28488
AH	448m SW	Unspecified Pit	1958	51142
AH	450m SW	Unspecified Pit	1906	48194
AH	451m SW	Unspecified Pit	1938	51142
AH	452m SW	Unspecified Ground Workings	1879	20574
Z	454m NE	Railway Sidings	1938	38337
AH	458m SW	Refuse Heap	1906	21499
11	469m E	Tin Stream Works	1879	30915
Z	474m NE	Goods Shed	1879	25212
X	478m N	Brewery	1879	54373
12	483m S	Burial Ground	1976	33585
Z	487m NE	Railway Station	1958	59171
Z	491m NE	Railway Station	1906	49135
Z	493m NE	Railway Station	1879	47543
Z	495m NE	Railway Station	1992	49016
Z	495m NE	Railway Station	1980	49016
Z	495m NE	Railway Station	1974	49016

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

28

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24**

ID	Location	Land Use	Date	Group ID
1	107m N	Tank or Trough	1880	4560
I	198m N	Unspecified Tank	1908	3647
J	231m SE	Unspecified Tank	1908	3639
I	236m N	Unspecified Tank	1880	3649
4	247m E	Unspecified Tank	1908	3644
I	275m N	Unspecified Tank	1908	3650
O	292m SW	Unspecified Tank	1880	3640
6	303m NW	Unspecified Tank	1908	3651
Q	309m E	Gas Works	1908	5573
Q	315m E	Gasholder	1908	6260
Q	316m E	Gasholder	1908	6738
Q	317m E	Gasholders	1966	5853
Q	317m E	Gasholders	1967	5853
Q	320m E	Gas Works	1880	5573
Q	324m E	Gasholder	1880	6260
Q	326m E	Gasholder	1880	6738
V	356m E	Unspecified Tank	1880	3646
8	364m NE	Unspecified Tank	1908	3648
X	372m N	Unspecified Tank	1967	5345
L	373m SE	Unspecified Tank	1880	3636
X	377m N	Unspecified Tank	1975	6162
X	377m N	Unspecified Tank	1967	5345
Y	381m NE	Unspecified Tank	1967	6412



ID	Location	Land Use	Date	Group ID
Y	382m NE	Unspecified Tank	1979	6412
Y	382m NE	Unspecified Tank	1989	6412
AD	440m W	Unspecified Tank	1908	3643
10	451m NE	Unspecified Tank	1989	3691
14	493m N	Unspecified Tank	1880	3690

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

30

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24**

ID	Location	Land Use	Date	Group ID
D	112m NE	Electricity House	1967	2152
D	168m NE	Electricity House	1966	2152
P	306m S	Electricity Substation	1989	1099
Q	309m E	Gas Works	1908	1978
Q	315m E	Gasholder	1908	2071
Q	316m E	Gasholder	1908	2091
Q	317m E	Gasholders	1966	1862
Q	317m E	Gasholders	1967	1862
Q	320m E	Gas Works	1880	1978
Q	324m E	Gasholder	1880	2071
Q	326m E	Gasholder	1880	2091
O	327m SW	Electricity Substation	1989	1804
O	327m SW	Electricity Substation	1979	1804
T	353m W	Electricity Substation	1979	2460
T	353m W	Electricity Substation	1989	2460



ID	Location	Land Use	Date	Group ID
AF	440m NE	Electricity Substation	1979	2465
AF	440m NE	Electricity Substation	1989	2465
Z	457m NE	Electricity Substation	1967	1835
AD	458m W	Electricity Substation	1967	2155
AD	458m W	Electricity Substation	1982	2155
AD	458m W	Electricity Substation	1996	2155
Z	459m NE	Electricity Substation	1979	1313
Z	459m NE	Electricity Substation	1989	1313
AI	464m E	Electricity Substation	1994	1953
AI	464m E	Electricity Substation	1989	2039
X	470m N	Electricity Substation	1975	1500
X	470m N	Electricity Substation	1967	1500
AE	491m N	Electricity Substation	1967	1089
13	492m SE	Electricity Substation	1977	1098
AE	495m N	Electricity Substation	1989	1090

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

9

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24**

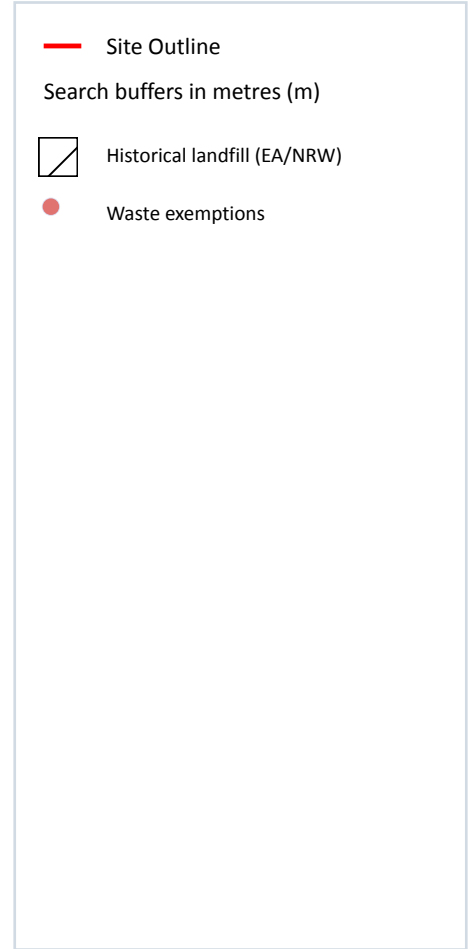
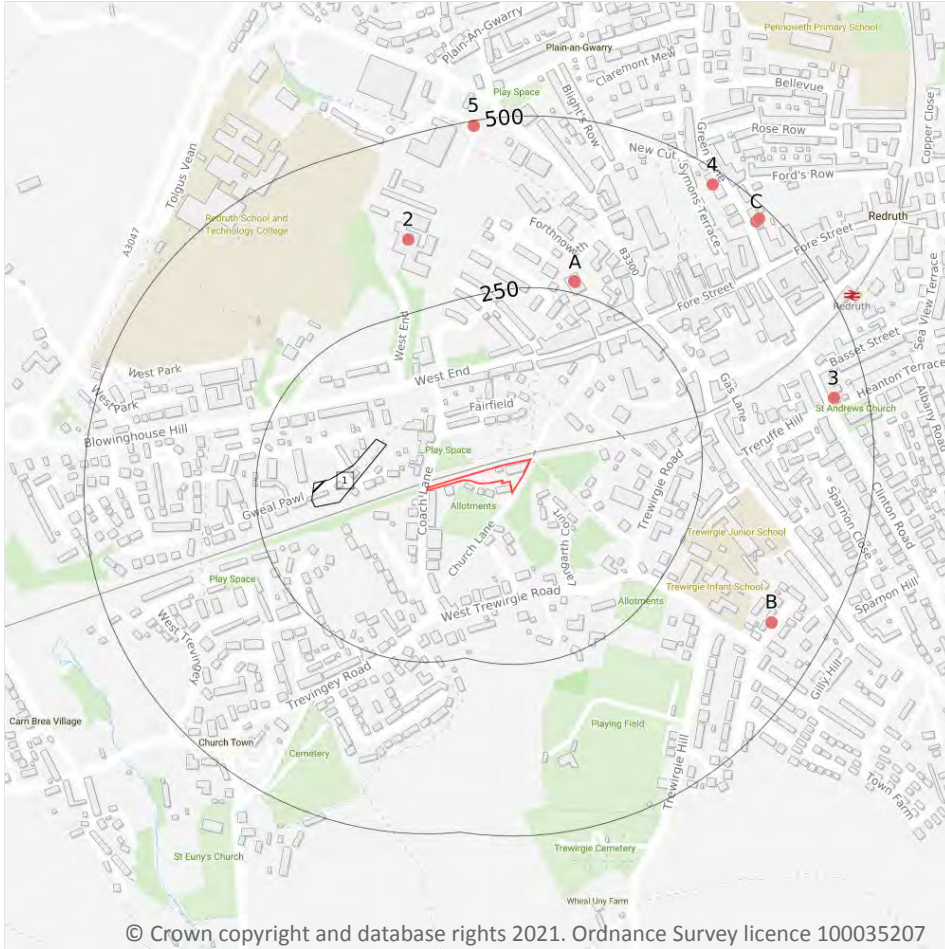


ID	Location	Land Use	Date	Group ID
A	118m N	Garage	1966	656
A	118m N	Garage	1967	656
3	195m NE	Garage	1989	365
M	267m E	Garage	1989	719
M	267m E	Garage	1967	719
M	268m E	Garage	1966	489
V	375m E	Garage	1989	472
V	376m E	Garage	1966	722
V	376m E	Garage	1967	722

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m **0**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m **0**

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
1	85m NW	Site Address: Former Railway Cutting, Redruth Hospital, Redruth, Cornwall Licence Holder Address: -	Waste Licence: - Site Reference: 2/102 Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.



3.7 Waste exemptions

Records within 500m

17

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	265m N	FORTH NOWETH, REDRUTH, TR15 1AU	WEX164406	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
A	265m N	FORTH NOWETH REDRUTH TR15 1AU	WEX004643	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	267m N	Manor Surgery Forth Noweth REDRUTH Cornwall TR15 1AU	EPR/GE5757A P/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
2	353m N	WEST END, REDRUTH, TR15 1TE	WEX151531	Using waste exemption	Not on a farm	Use of waste in construction
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Treating waste exemption	Agricultural Waste Only	Screening and blending of waste
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
B	420m SE	East Ancroft BERWICK- UPON-TWEED TD15 2TF	EPR/QE5856D Z/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	449m E	12-12A, BOND STREET, REDRUTH, TR15 2QB	WEX162215	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal

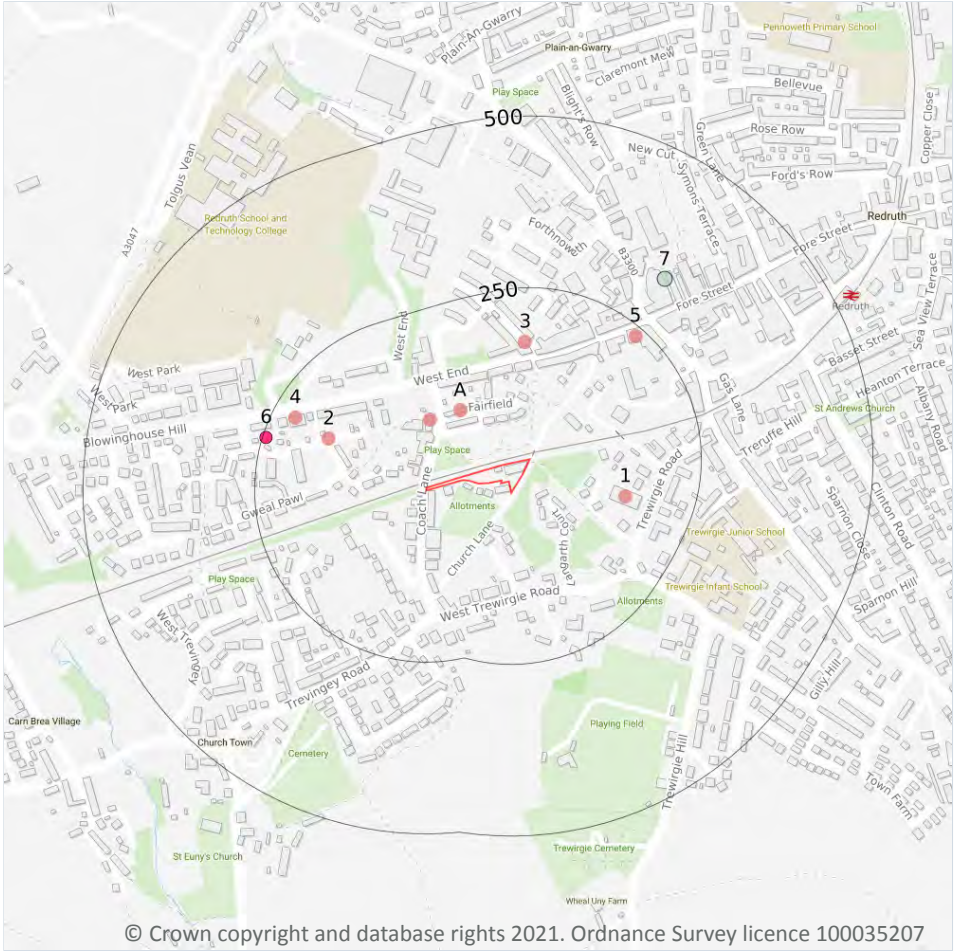


ID	Location	Site	Reference	Category	Sub-Category	Description
C	477m NE	12, GREEN LANE, REDRUTH, TR15 1JT	WEX165888	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
4	479m NE	Green Lane Pharmacy, 11 Green Lane, Redruth, TR15 1JY	WEX128486	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	482m NE	12 Green Lane REDRUTH Cornwall TR15 1JT	EPR/LE5047CV /A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
5	492m N	Cormac Contracting site (Redruth Brewery) Tolgus Hill Redruth Cornwall TR15 1AX	EPR/YF0401KS /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Radioactive Substance Authorisations
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **7**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	Activity	Category
A	94m N	K Abrahams & Sons Coal Merchants	Coach Lane, Redruth, Cornwall, TR15 2TP	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
A	94m N	R S Berry Auto Spray	1, Coach Lane, Redruth, Cornwall, TR15 2TP	Vehicle Repair, Testing and Servicing	Repair and Servicing



ID	Location	Company	Address	Activity	Category
1	150m E	Telephone Exchange	Cornwall, TR15	Telecommunications Features	Infrastructure and Facilities
2	159m NW	Electricity Sub Station	Cornwall, TR15	Electrical Features	Infrastructure and Facilities
3	171m N	Electricity Sub Station	Cornwall, TR15	Electrical Features	Infrastructure and Facilities
4	217m NW	The Cornish Chilli Company	15, Penventon Terrace, Redruth, Cornwall, TR15 3AD	Catering and Non Specific Food Products	Foodstuffs
5	237m NE	Fix a Dent	Flat 10 3, West End, Redruth, Cornwall, TR15 2RZ	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m	0
----------------------------	----------

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
----------------------------	----------

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
----------------------------	----------

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0
----------------------------	----------

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0
----------------------------	----------

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

1

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Address	Details	
6	244m W	Camborne Redruth Hospital Nhs Trust, Pendenton Terrace, Redruth, Cornwall, TR15 3TR	Operator: Camborne Redruth Hospital Nhs Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AB7680 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
---------------------	---

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0
---------------------	---

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0
---------------------	---

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0
---------------------	---

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1
---------------------	---

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Details	
7	327m NE	Incident Date: 02/09/2003 Incident Identification: 186772 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m **0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m **0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

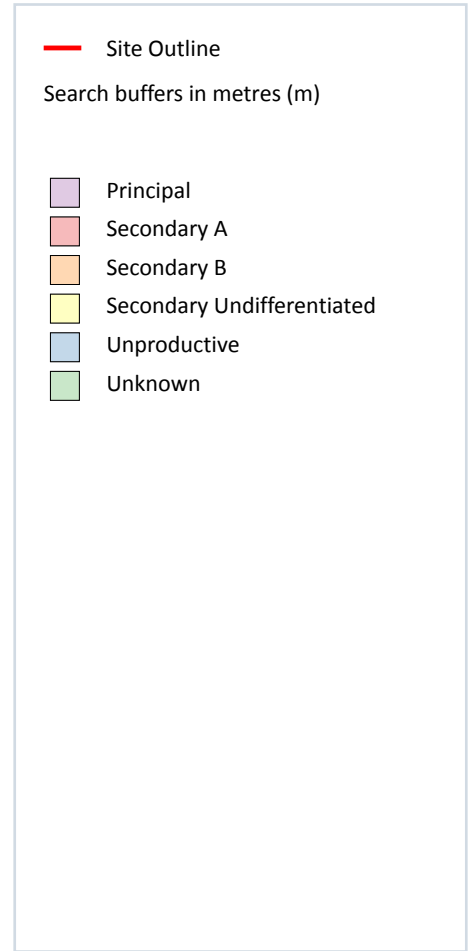
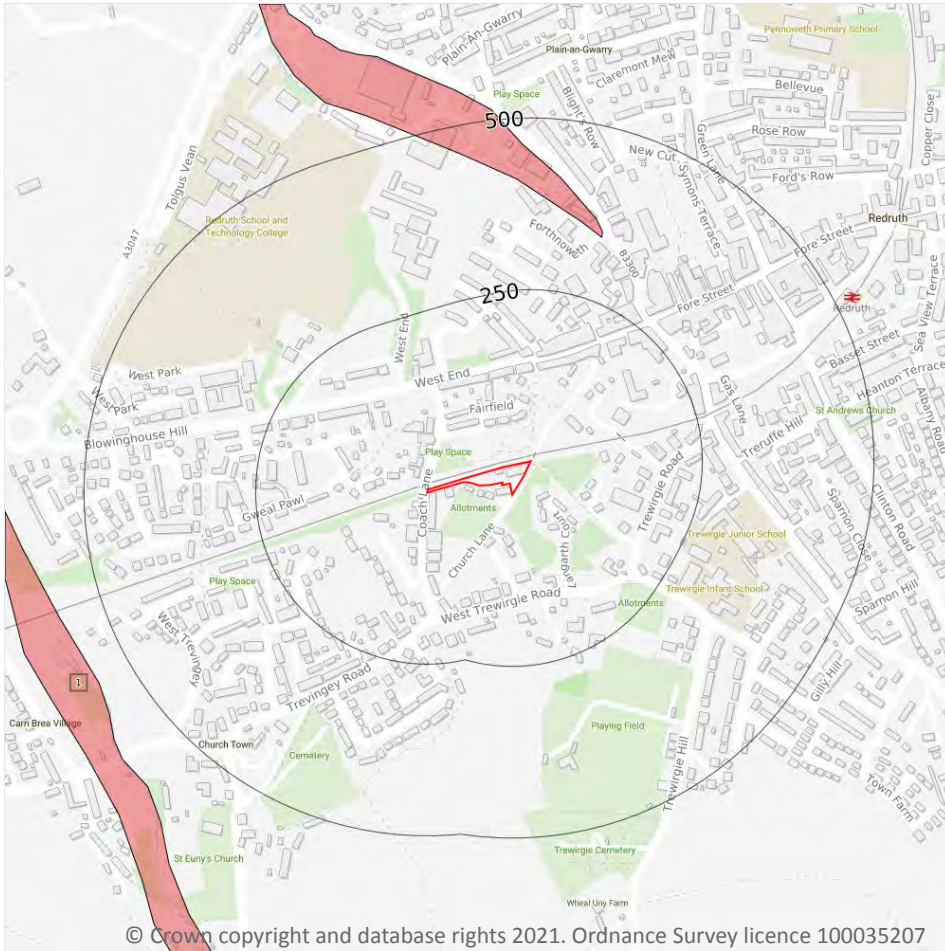
4.21 Pollution inventory radioactive waste

Records within 500m **0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

1

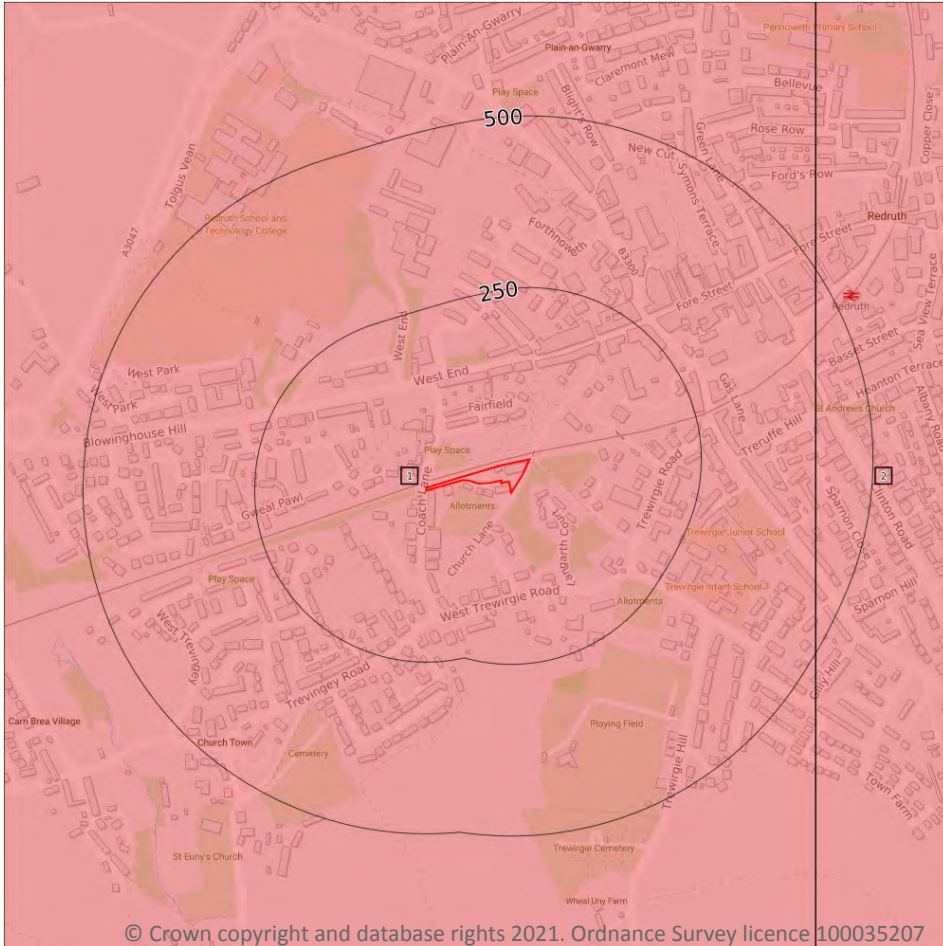
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 45**

ID	Location	Designation	Description
1	342m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 46**

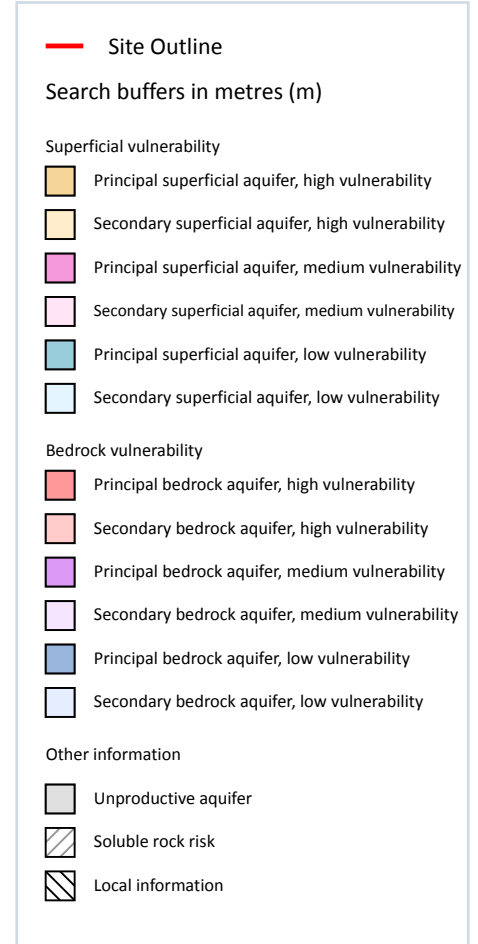
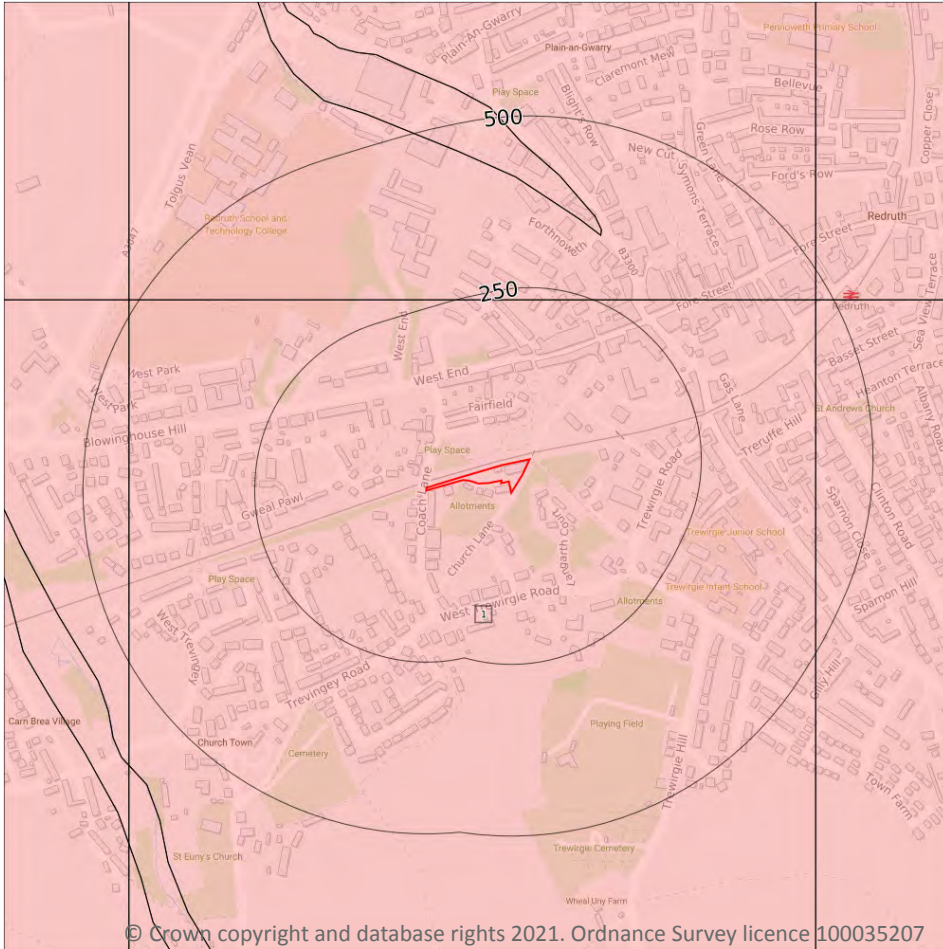
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	417m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 48**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

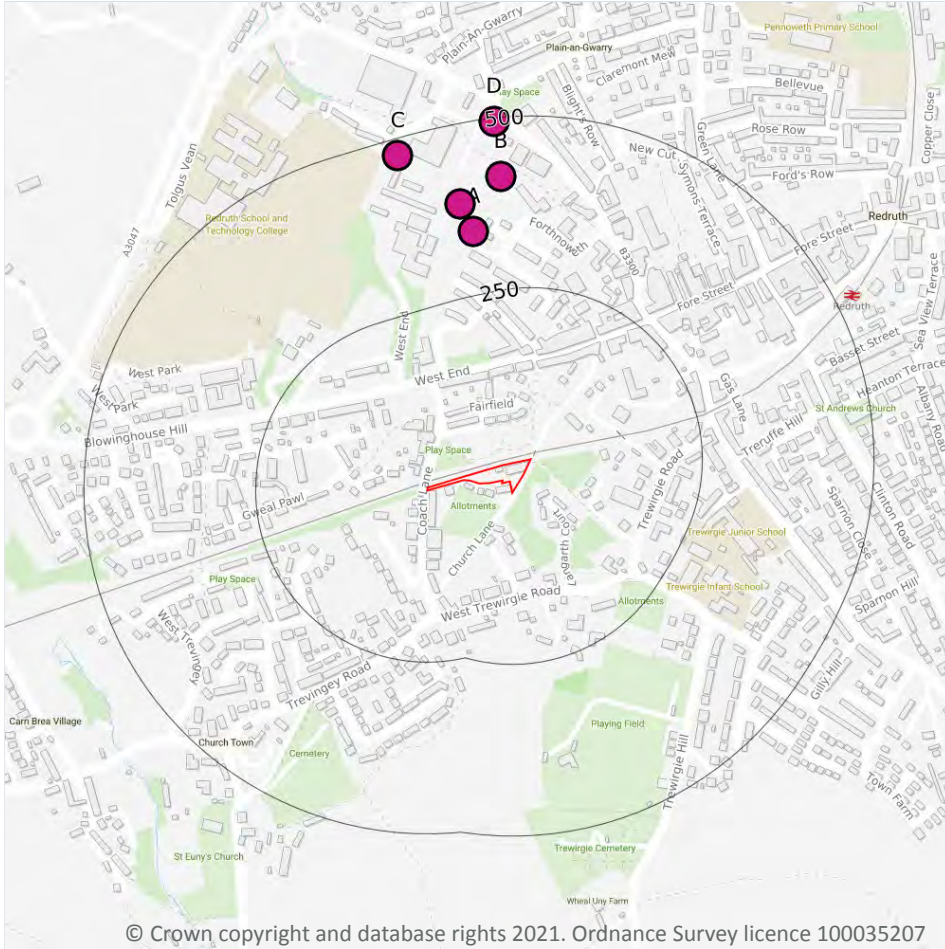
5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

11

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 50**

ID	Location	Details	
A	342m N	Status: Historical Licence No: 15/49/026/G/113 Details: Process water Direct Source: Ground Water - Fresh Point: REDRUTH BREWERY, REDRUTH - EAST CARN BRAE ADIT Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169500 Northing: 42100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1997 Version End Date: -
A	342m N	Status: Historical Licence No: 15/49/026/G/113 Details: Process water Direct Source: Ground Water - Fresh Point: "REDRUTH BREWERY, REDRUTH - EAST CARN BRAE ADIT" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169500 Northing: 42100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1997 Version End Date: -
A	385m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: BREWERY, REDRUTH - BOREHOLE D Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169480 Northing: 42140	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
A	385m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: "BREWERY, REDRUTH - BOREHOLE D" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169480 Northing: 42140	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
B	414m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: BREWERY, REDRUTH - BOREHOLE B Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169540 Northing: 42180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -



ID	Location	Details	
B	414m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: "BREWERY, REDRUTH - BOREHOLE B" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169540 Northing: 42180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
C	475m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: BREWERY, REDRUTH - BOREHOLE A Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169390 Northing: 42210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
C	475m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: "BREWERY, REDRUTH - BOREHOLE A" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169390 Northing: 42210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
D	495m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: BREWERY, REDRUTH - BOREHOLE C Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169530 Northing: 42260	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
D	495m N	Status: Historical Licence No: 15/49/026/G/213 Details: Process water Direct Source: Ground Water - Fresh Point: "BREWERY, REDRUTH - BOREHOLE C" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169530 Northing: 42260	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -



ID	Location	Details	
-	1661m N	Status: Historical Licence No: 15/49/026/G/005 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: DOWNS FARM - WELL A Data Type: Point Name: Richards Easting: 168900 Northing: 43300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 31/12/1965 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	4
-----------------------------	----------

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 50**

ID	Location	Details	
-	1038m S	Status: Historical Licence No: 15/49/026/S/049 Details: Process water Direct Source: Surface Water - Fresh Point: "TESCAN LTD., REDRUTH - THE BASSETT ADIT" Data Type: Point Name: Tescan Ltd Easting: 169160 Northing: 40720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1974 Expiry Date: - Issue No: 100 Version Start Date: 07/04/2000 Version End Date: -
-	1038m S	Status: Active Licence No: 15/49/026/S/049 Details: Process Water Direct Source: Surface Water - Fresh Point: TESCOAN LTD., REDRUTH - THE BASSETT ADIT Data Type: Point Name: Tescan Ltd Easting: 169160 Northing: 40720	Annual Volume (m ³): 56,818 Max Daily Volume (m ³): 284.10 Original Application No: - Original Start Date: 31/03/1974 Expiry Date: - Issue No: 101 Version Start Date: 16/07/2010 Version End Date: -



ID	Location	Details	
-	1822m S	Status: Historical Licence No: 15/49/026/S/042 Details: Process water Direct Source: Surface Water - Fresh Point: REDRUTH BREWERY, REDRUTH - BULLER ADIT OUTFLOW Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169400 Northing: 39900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1997 Version End Date: -
-	1822m S	Status: Historical Licence No: 15/49/026/S/042 Details: Process water Direct Source: Surface Water - Fresh Point: "REDRUTH BREWERY, REDRUTH - BULLER ADIT OUTFLOW" Data Type: Point Name: Redruth Brewery (1742) Ltd Easting: 169400 Northing: 39900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1997 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- - - WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 56**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Portreath Stream	GB108049000620	Hayle, Red River and Northern Streams	West Cornwall and the Fal

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 56**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	275m NE	River	Portreath Stream	GB108049000620	Moderate	Fail	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.



6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 56**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	West Cornwall	<u>GB40802G800100</u>	Poor	Poor	Good	2015

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

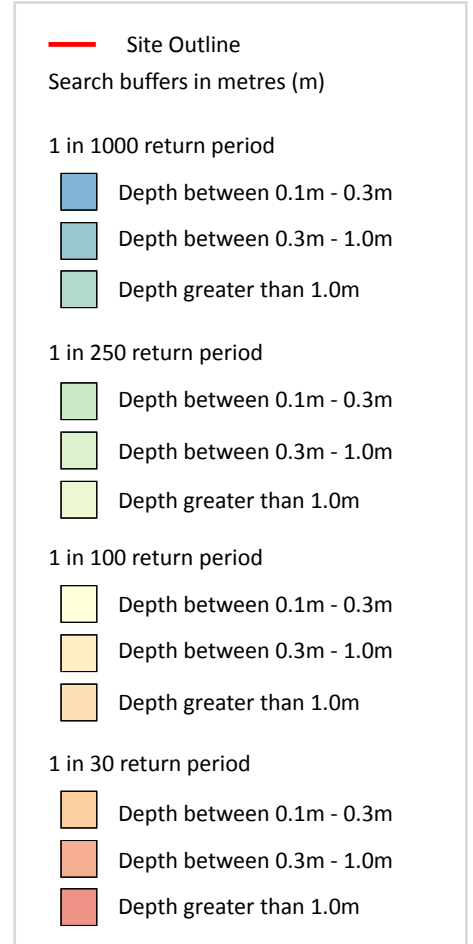
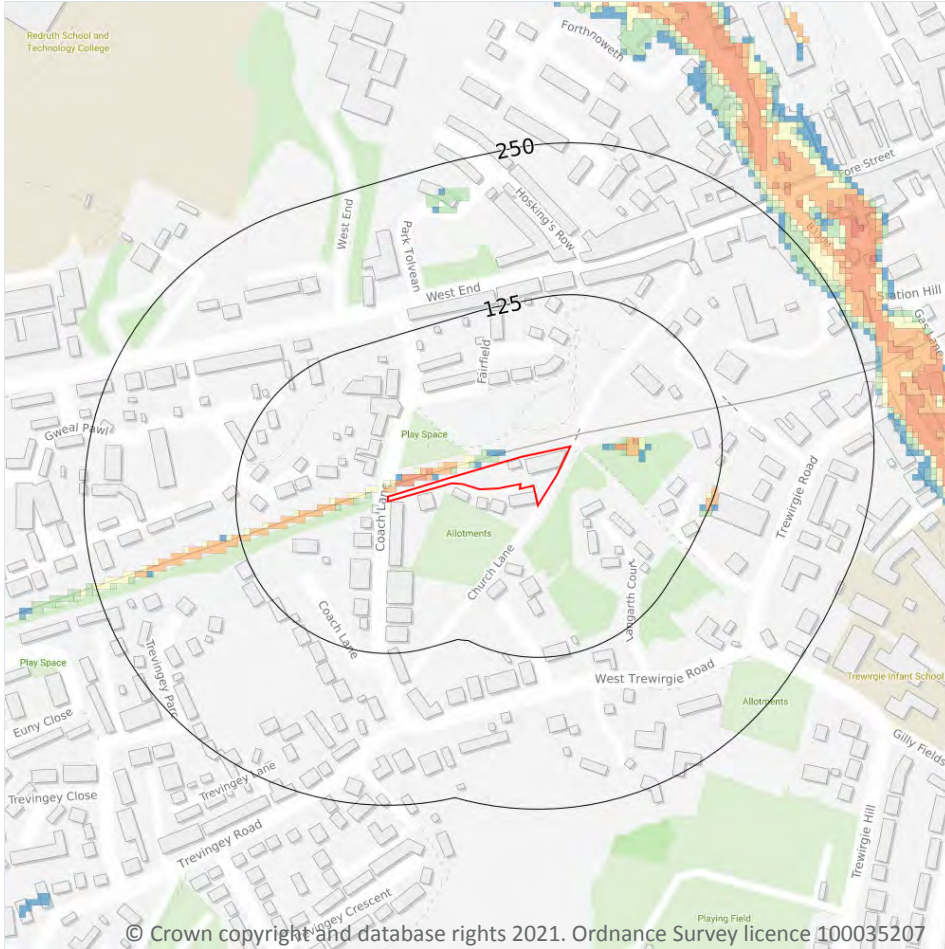
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 62**

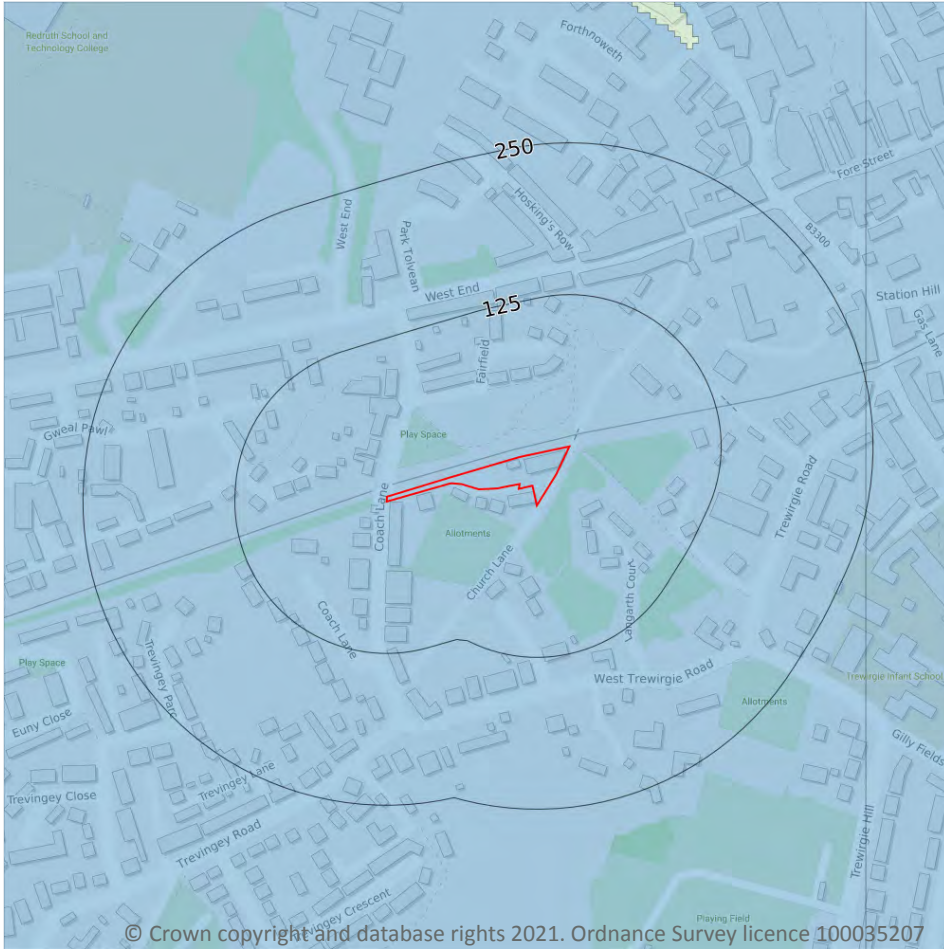
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.05m and 0.1m
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 64**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 65**

ID	Location	Name	Data source
-	1416m S	West Cornwall Bryophytes	Natural England



ID	Location	Name	Data source
-	1499m S	West Cornwall Bryophytes	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0
-----------------------------	----------

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0
-----------------------------	----------

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0
-----------------------------	----------

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0
-----------------------------	----------

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

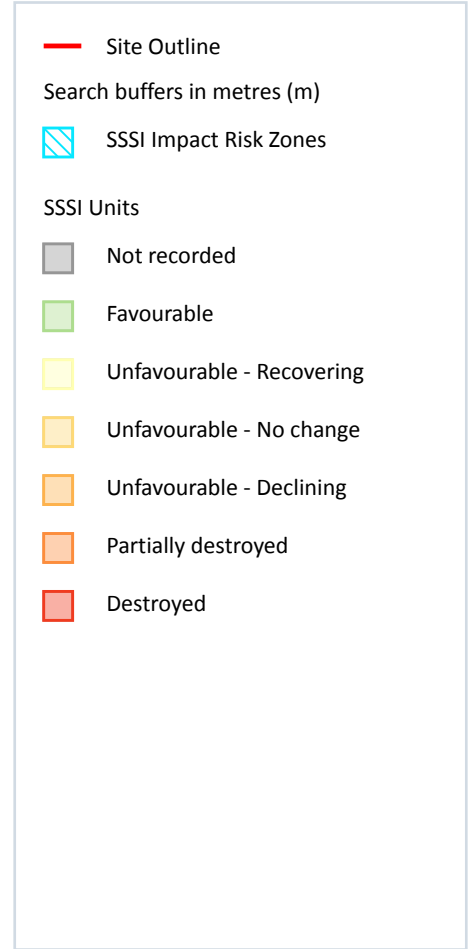
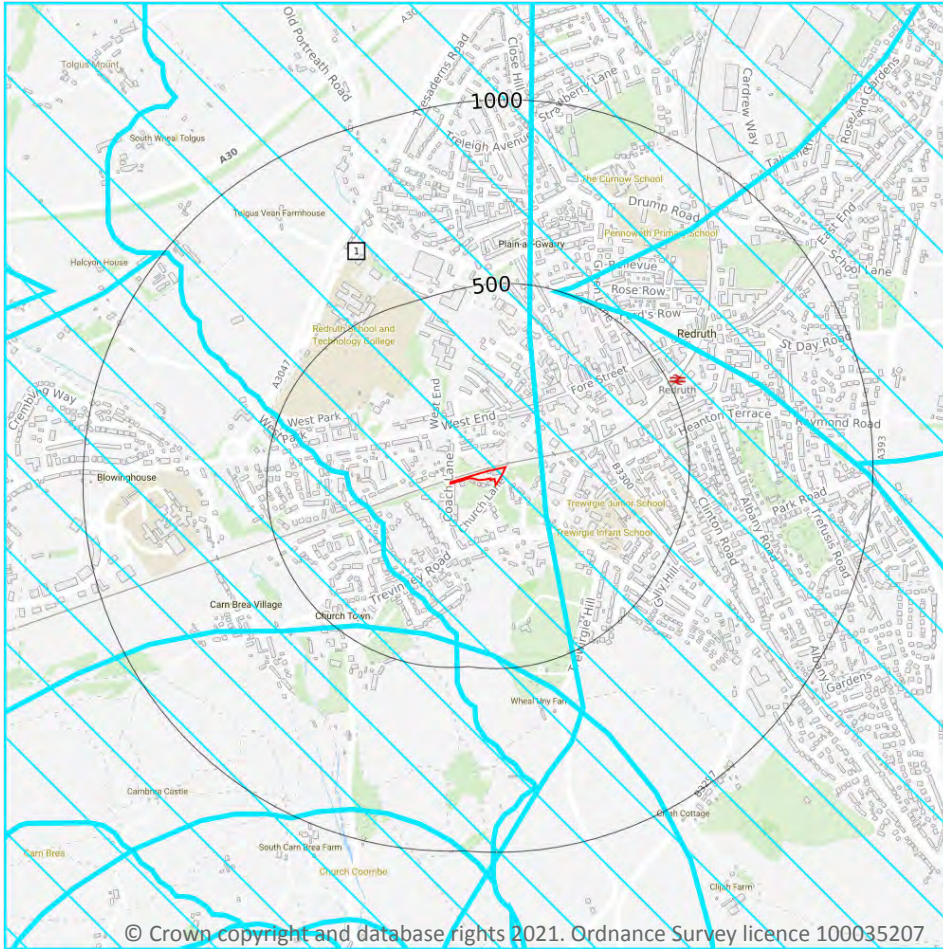
1

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1295m SE	Truro, Tresillian and Falmouth	Eutrophic Water	ET5	Changed

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 70**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t).</p> <p>Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location).</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

2

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 70**

ID: -
 Location: 1416m S
 SSSI name: West Cornwall Bryophytes
 Unit name: West Bassett Stamps
 Broad habitat: Inland Rock
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Bryophyte assemblage	Favourable	01/10/2010

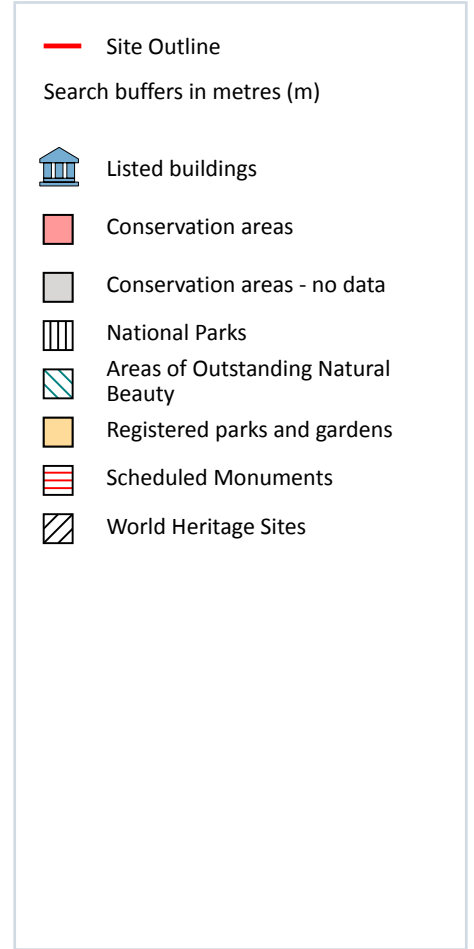
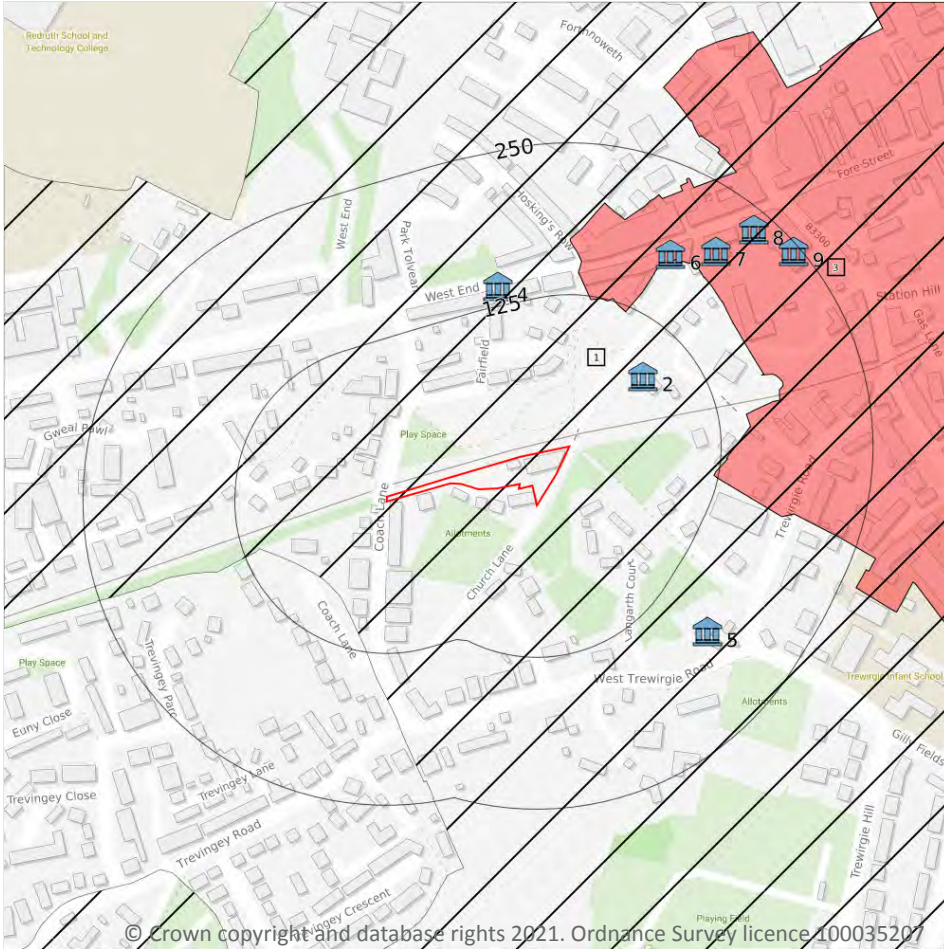


ID: -
Location: 1499m S
SSSI name: West Cornwall Bryophytes
Unit name: West Bassett Stamps
Broad habitat: Inland Rock
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Bryophyte assemblage	Favourable	01/10/2010

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

1

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

Features are displayed on the Visual and cultural designations map on **page 73**

ID	Location	Name	Data Source
1	On site	Cornwall and West Devon Mining Landscape	Historic England

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

7

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 73**

ID	Location	Name	Grade	Reference Number	Listed date
2	84m NE	Former Quaker Meeting House, Redruth, Cornwall, TR15	II	1253214	26/05/1993
4	141m N	Milestone Situated On The Southern Side Of The B3293, Set Into A Gap In The Forecourt Wall Of 32 West End, Redruth, Redruth, Cornwall, TR15	II	1409467	09/07/2012
5	175m SE	Trewirgie House With Attached Outbuildings, Redruth, Cornwall, TR15	II	1142544	12/09/1989
6	179m NE	9 And 10, West End, Redruth, Cornwall, TR15	II	1162163	12/09/1989

ID	Location	Name	Grade	Reference Number	Listed date
7	201m NE	5, West End, Redruth, Cornwall, TR15	II	1328191	12/09/1989
8	234m NE	3, West End, Redruth, Cornwall, TR15	II	1142542	12/09/1989
9	245m NE	British Legion Club, Redruth, Cornwall, TR15	II	1161963	12/09/1989

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

1

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 73**

ID	Location	Name	District	Date of designation
3	120m NE	Redruth	Cornwall	27/04/1983

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any

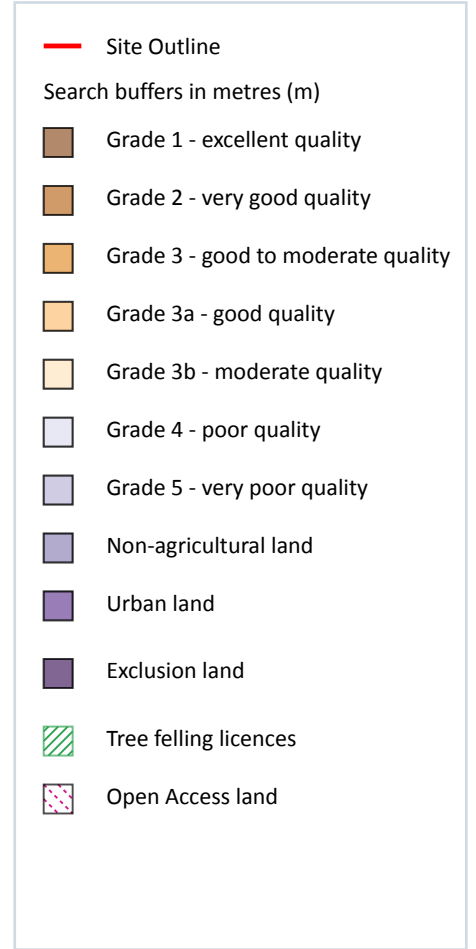
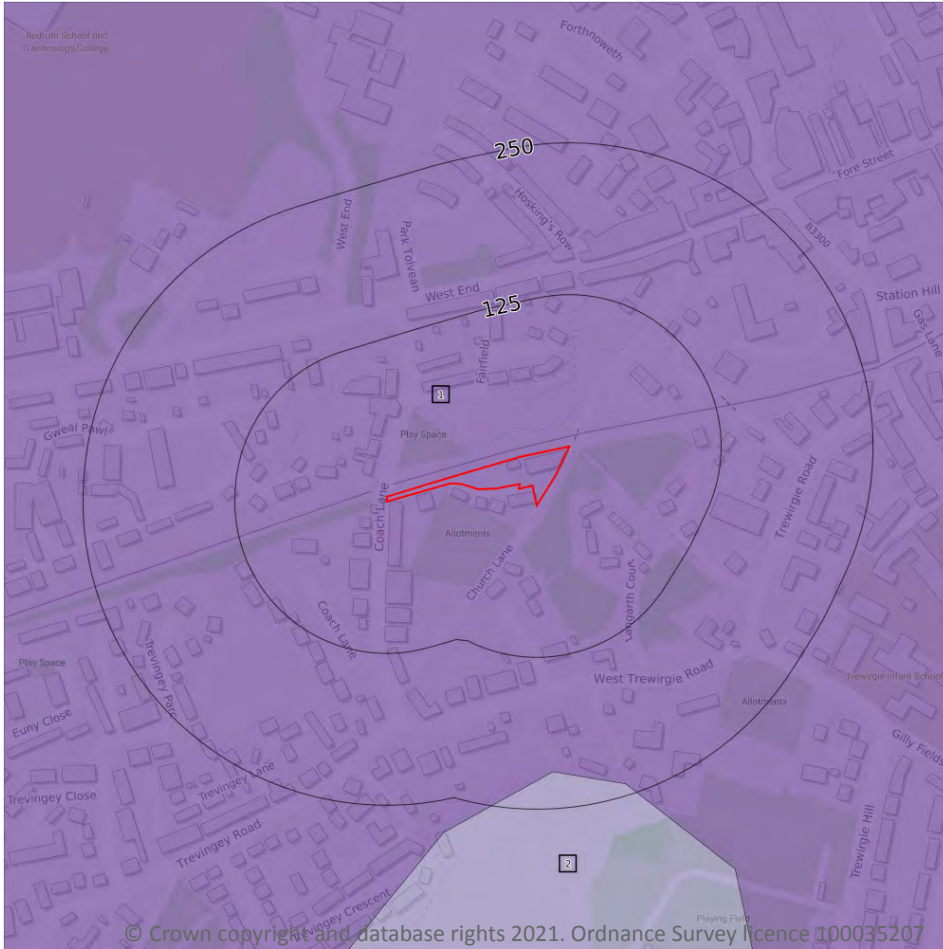


proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 77**

ID	Location	Classification	Description
1	On site	Urban	-
2	220m S	Non Agricultural	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

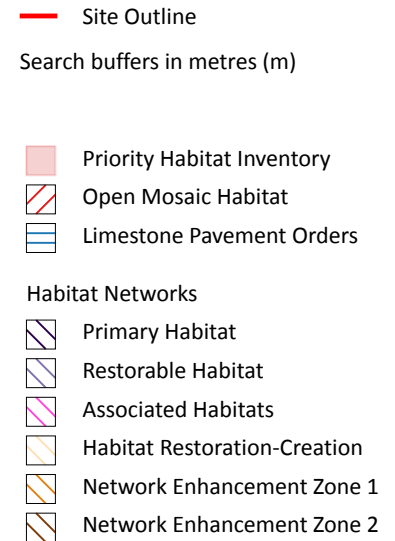
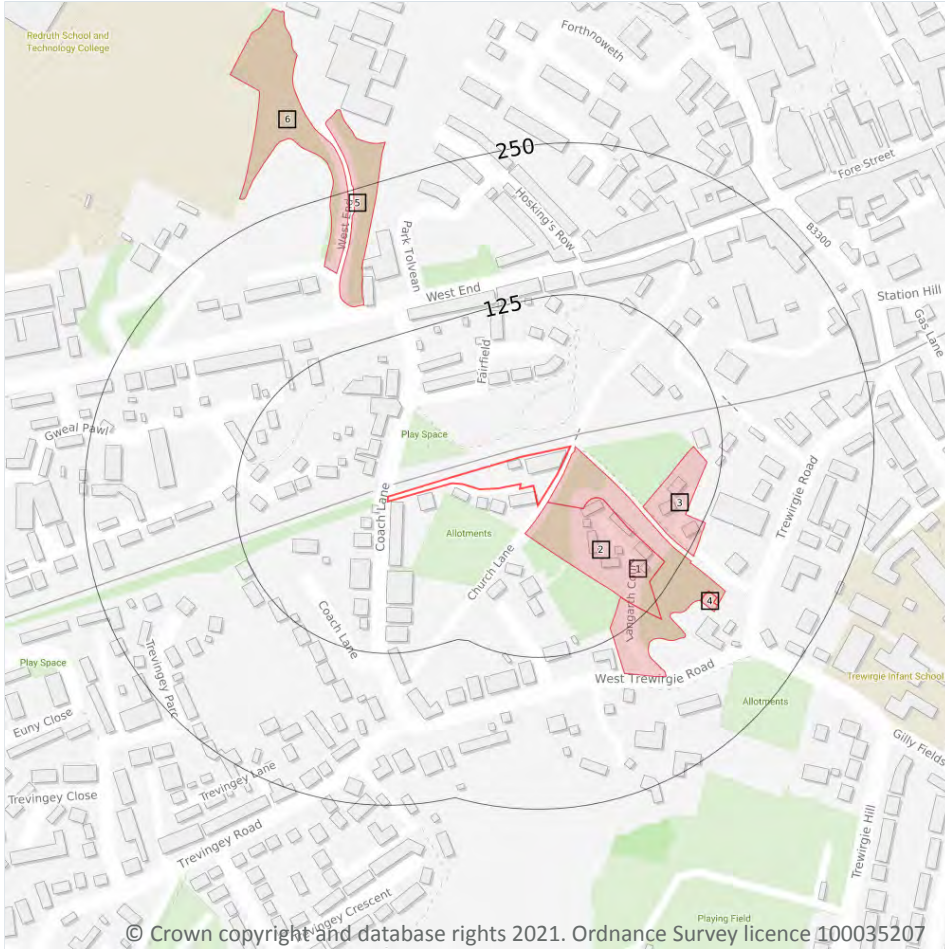
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

6

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 79**

ID	Location	Main Habitat	Other habitats
1	4m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	5m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	75m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	155m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	157m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	188m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 81**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 85**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW352_falmouth_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m


0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
-  Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 87**

ID	Location	LEX Code	Description	Rock description
1	342m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

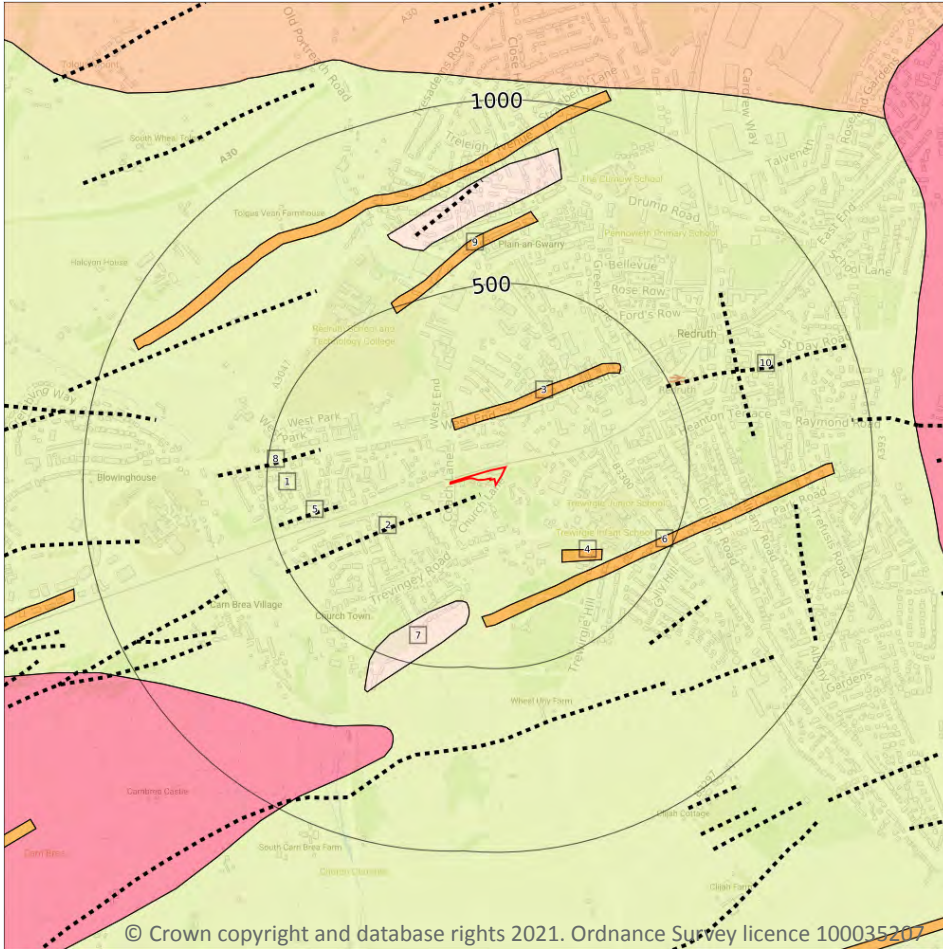
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

© Crown copyright and database rights 2021. Ordnance Survey licence 100035207

15.8 Bedrock geology (50k)

Records within 500m

6

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 89**

ID	Location	LEX Code	Description	Rock age
1	On site	MRSL-HSSL	MYLOR SLATE FORMATION - HORNFELED SLATE AND HORNFELED SILTSTONE	FRASNIAN
3	133m N	UDP-FELS	UNNAMED DYKE, PERMIAN - FELSITE	-
4	253m SE	UDP-FELS	UNNAMED DYKE, PERMIAN - FELSITE	-

ID	Location	LEX Code	Description	Rock age
6	316m SE	UDP-FELS	UNNAMED DYKE, PERMIAN - FELSITE	-
7	320m S	MRS�-MBAR	MYLOR SLATE FORMATION - METABASALTIC-ROCK	FRASNIAN
9	482m N	UDP-FELS	UNNAMED DYKE, PERMIAN - FELSITE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

4

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 89**

ID	Location	Category	Description
2	40m S	MINERAL_VEIN	Mineral vein, inferred
5	308m W	MINERAL_VEIN	Mineral vein, inferred
8	365m W	MINERAL_VEIN	Mineral vein, inferred
10	489m NE	MINERAL_VEIN	Mineral vein, inferred

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

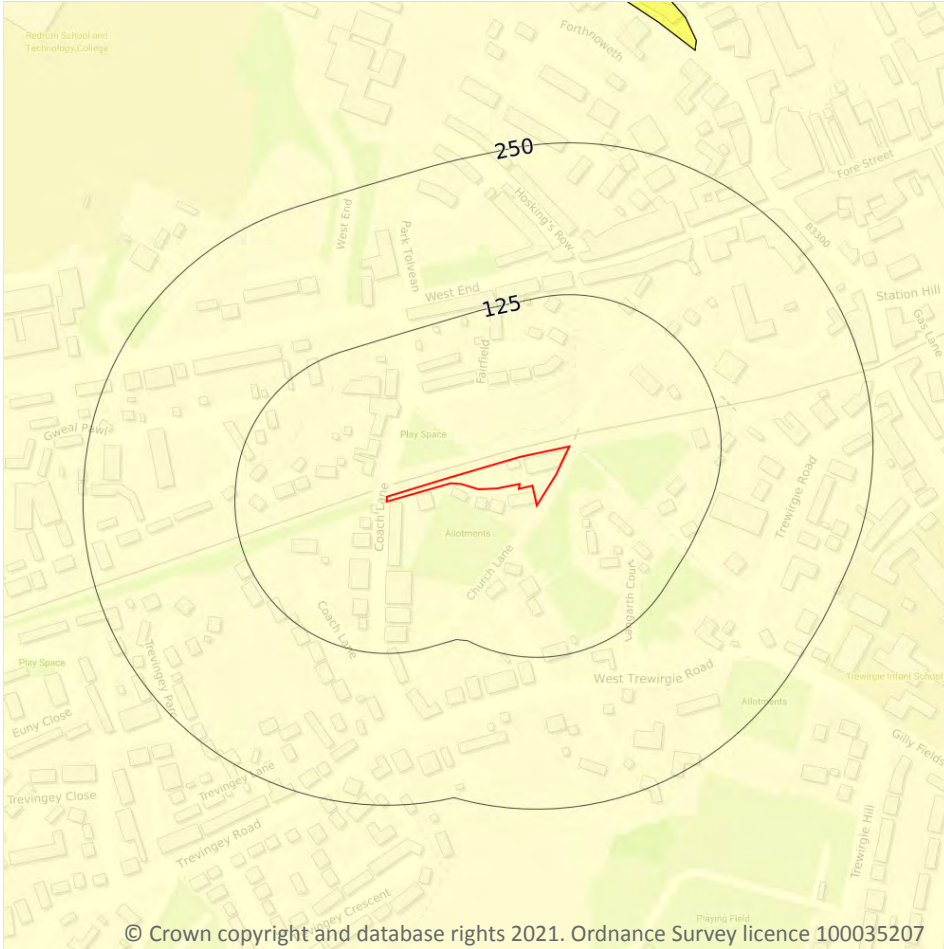
0

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m

1

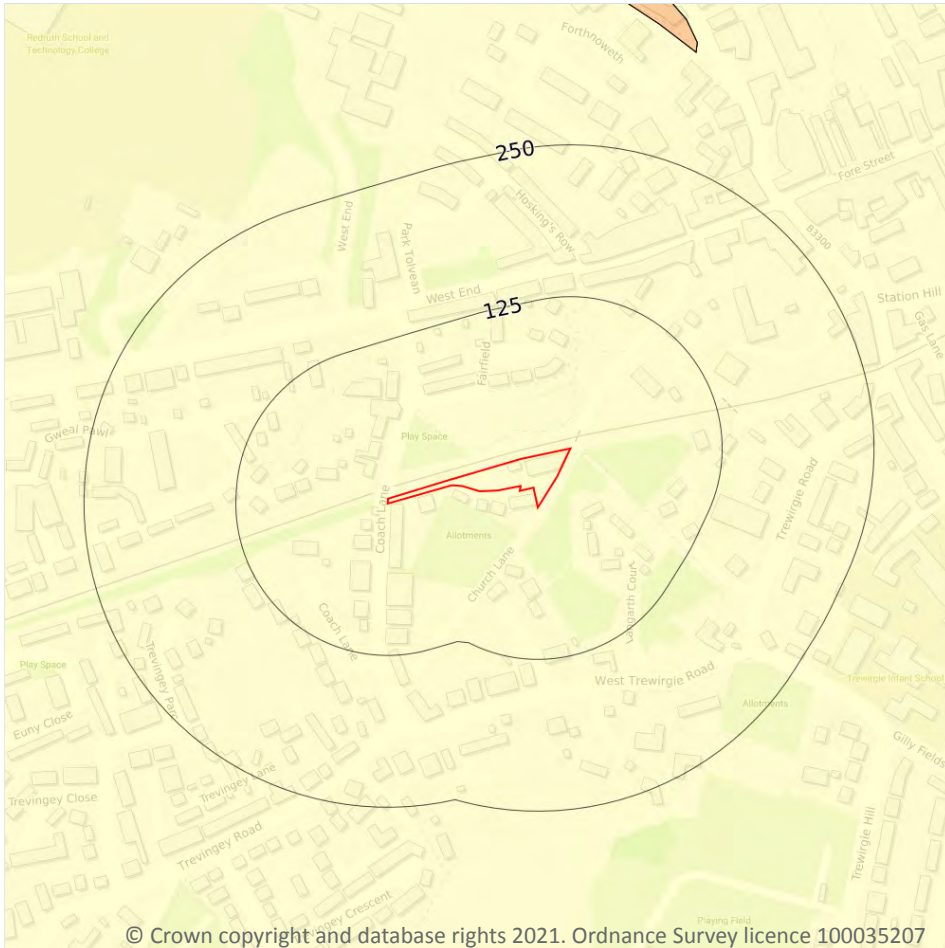
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 92**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m

1

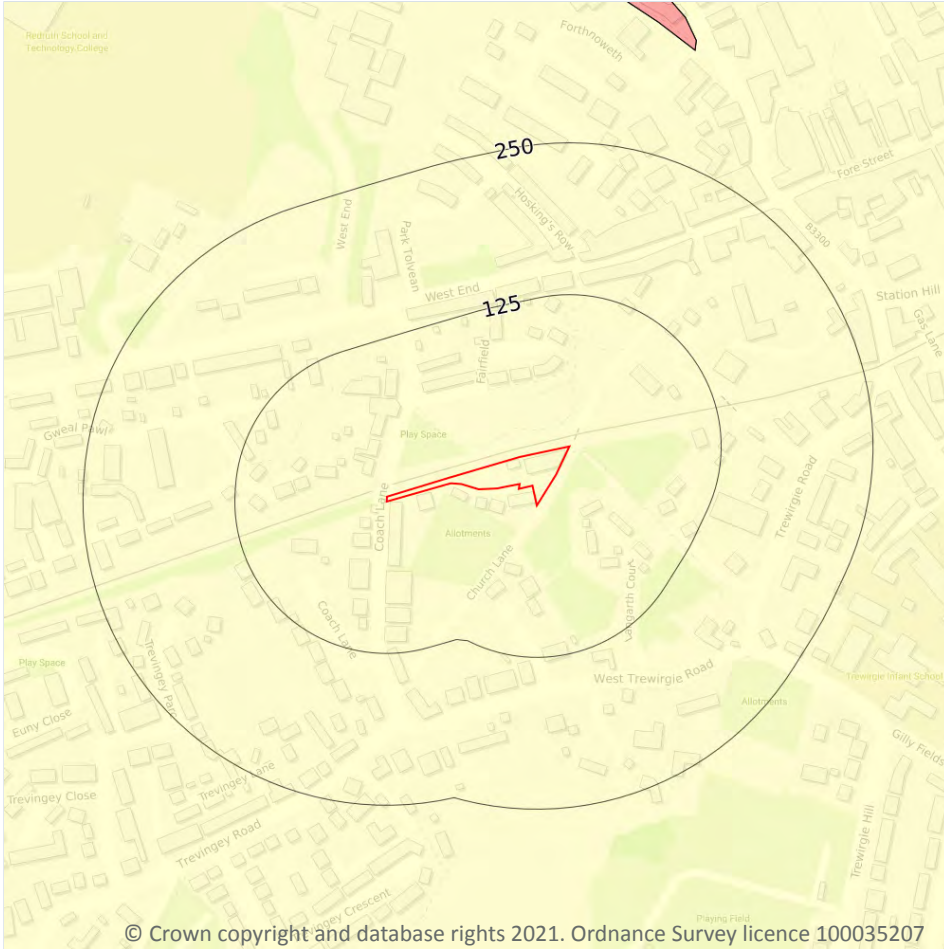
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 93**

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

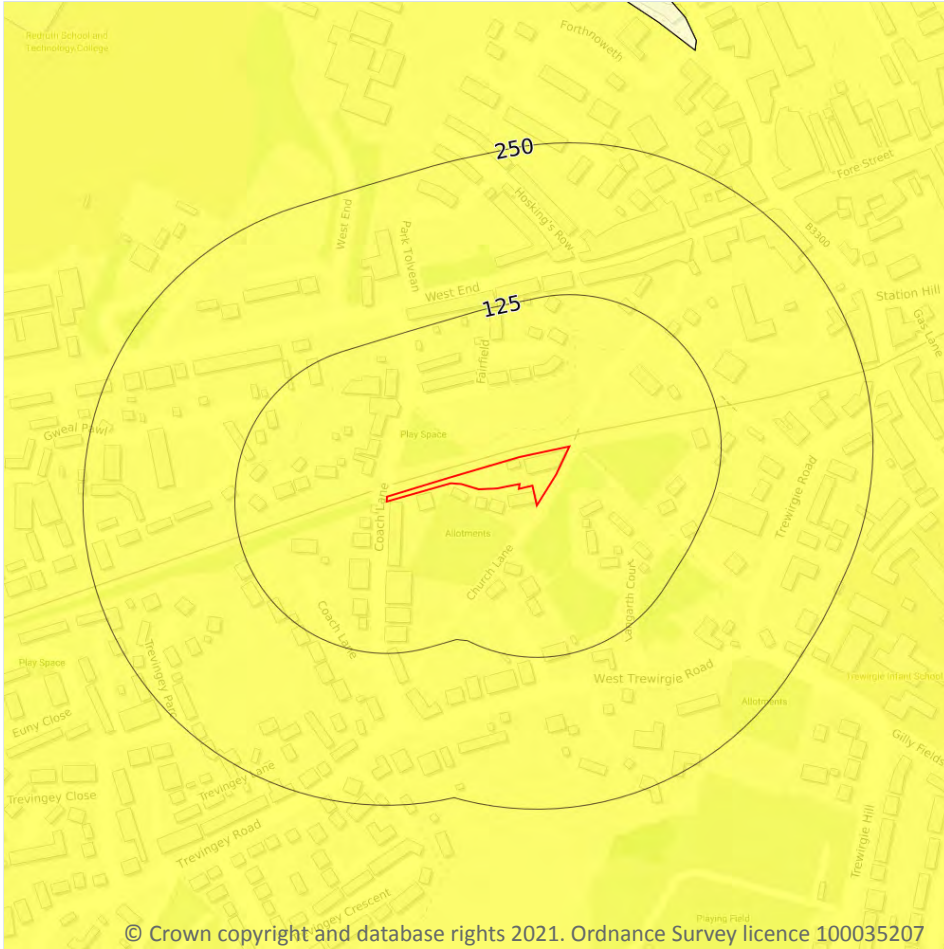
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 94**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m

1

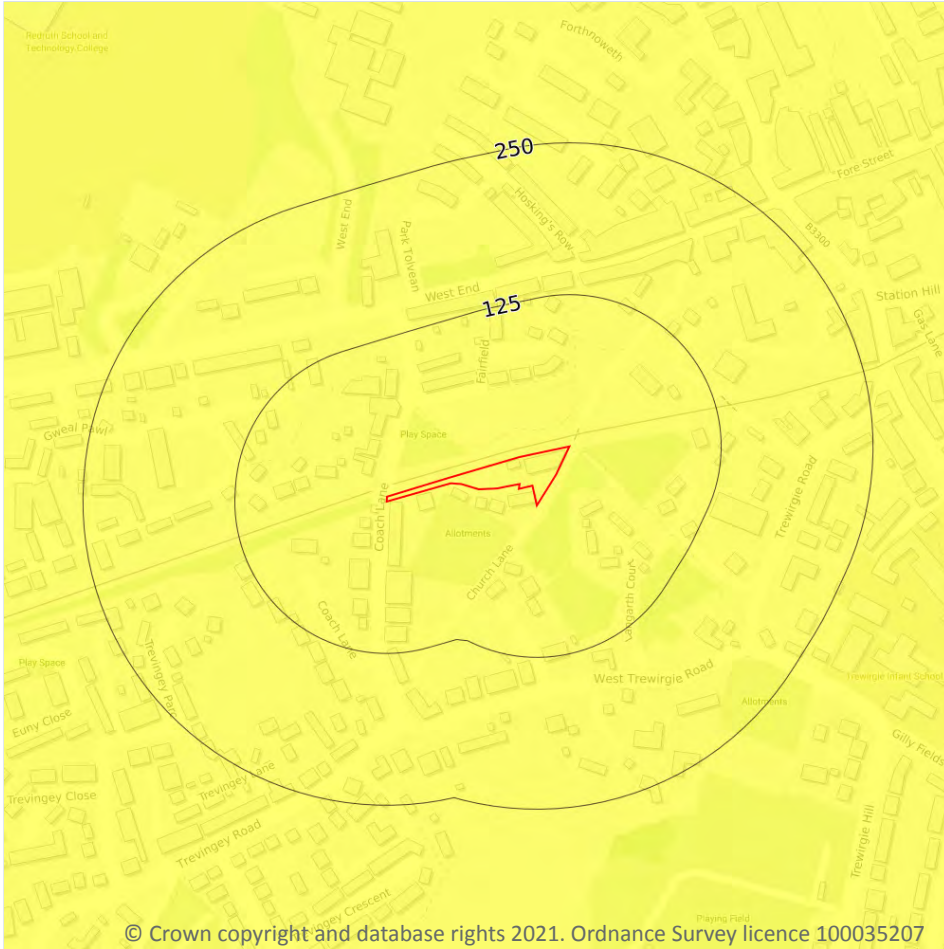
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 95**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

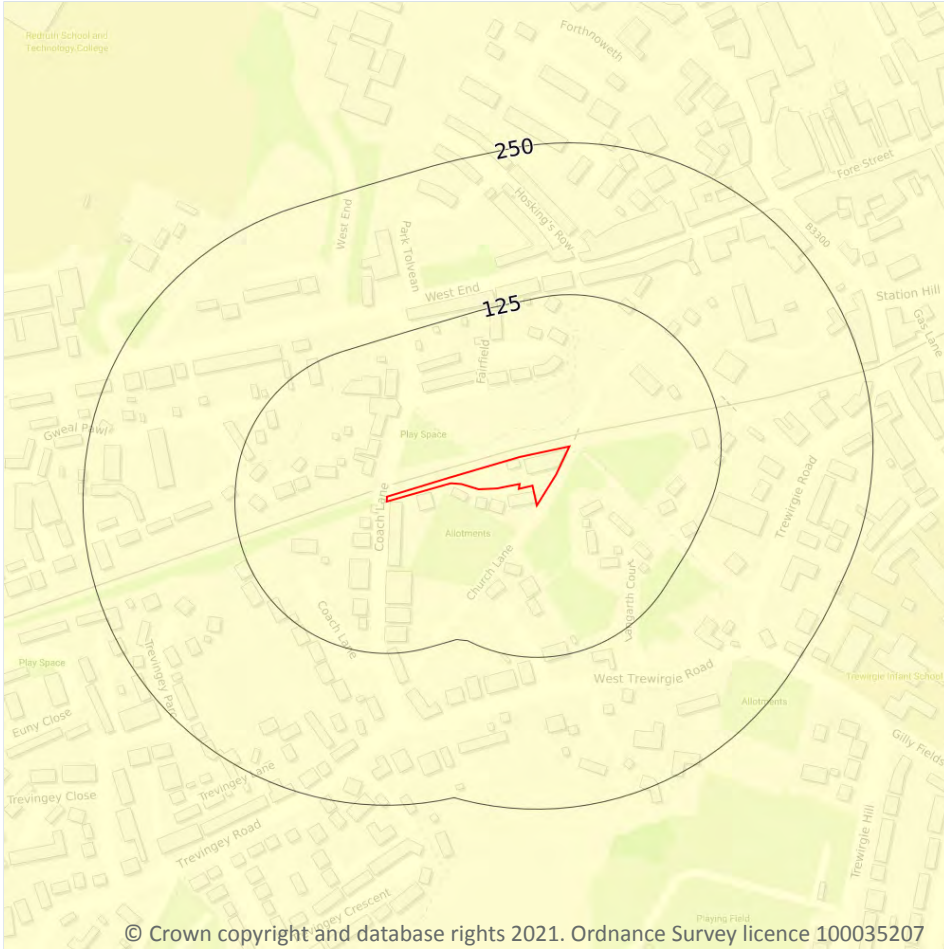
Features are displayed on the Natural ground subsidence - Landslides map on **page 96**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

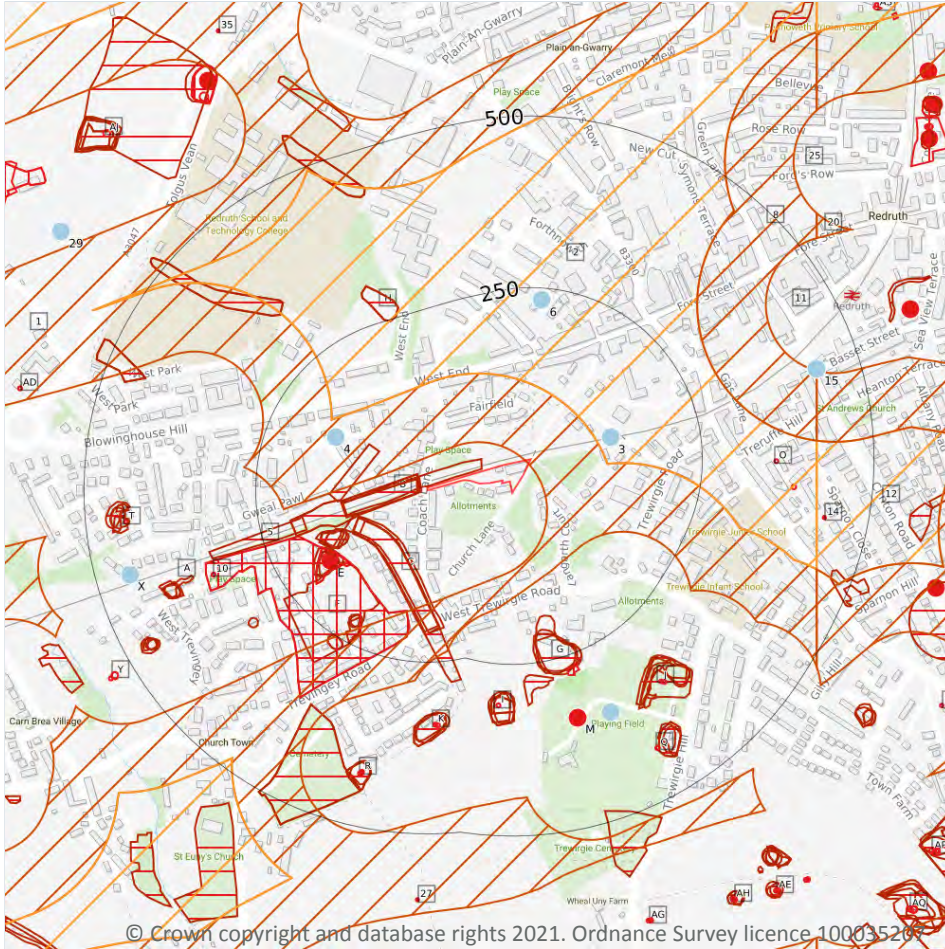
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 97**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Details	Description
E	175m SW	Name: Wheal Union Address: REDRUTH, Cornwall Commodity: Copper Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	175m SW	Name: Wheal Union Address: REDRUTH, Cornwall Commodity: Tin Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
M	340m S	Name: East Carnbrea Mine Address: Redruth, REDRUTH, Cornwall Commodity: Tin Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

33

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**



ID	Location	Land Use	Year of mapping	Mapping scale
B	2m N	Cuttings	1879	1:10560
B	9m W	Cuttings	1958	1:10560
B	11m W	Cuttings	1990	1:10000
B	11m W	Cuttings	1976	1:10000
B	15m W	Cuttings	1906	1:10560
C	80m SW	Cuttings	1958	1:10560
C	84m SW	Cuttings	1906	1:10560
C	84m SW	Cuttings	1938	1:10560
C	84m SW	Cuttings	1879	1:10560
B	88m NW	Cuttings	1879	1:10560
E	132m SW	Unspecified Heap	1990	1:10000
E	132m SW	Unspecified Heap	1976	1:10000
E	132m SW	Gravel Pit	1958	1:10560
E	135m SW	Refuse Heap	1906	1:10560
E	135m SW	Unspecified Heap	1879	1:10560
E	138m SW	Refuse Heap	1938	1:10560
F	153m SW	Disused Tin and Copper Wheal	1938	1:10560
F	154m SW	Disused Tin and Copper	1906	1:10560
E	154m SW	Disused Tin and Copper	1879	1:10560
E	158m SW	Unspecified Heap	1958	1:10560
E	163m SW	Unspecified Heap	1906	1:10560
E	163m SW	Unspecified Heap	1879	1:10560
E	164m SW	Unspecified Heap	1938	1:10560
5	185m W	Cuttings	1879	1:10560
G	185m S	Unspecified Heap	1879	1:10560
G	204m S	Refuse Heap	1906	1:10560
F	207m SW	Refuse Heap	1958	1:10560
F	207m SW	Refuse Heap	1906	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	207m SW	Unspecified Heap	1879	1:10560
G	209m S	Refuse Heap	1938	1:10560
G	216m S	Refuse Heap	1958	1:10560
H	248m N	Unspecified Heap	1990	1:10000
H	248m N	Unspecified Heap	1976	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

158

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Land Use	Year of mapping	Mapping scale
F	154m SW	Disused Tin and Copper	1906	1:10560
E	154m SW	Disused Tin and Copper	1879	1:10560
G	265m S	Unspecified Old Shaft	1906	1:10560
I	307m S	Unspecified Shaft	1879	1:10560
10	332m W	Unspecified Shaft	1879	1:10560
K	339m S	Unspecified Old Shaft	1906	1:10560
K	339m S	Unspecified Shafts	1879	1:10560
K	340m S	Unspecified Old Shaft	1958	1:10560
J	347m SE	Unspecified Old Shaft	1906	1:10560
J	350m SE	Unspecified Old Shaft	1958	1:10560
O	355m E	Unspecified Shaft	1879	1:10560
O	382m E	Unspecified Shaft	1879	1:10560
R	418m S	Unspecified Old Shaft	1958	1:10560
R	420m S	Unspecified Old Shaft	1906	1:10560
Q	425m SE	Unspecified Shaft	1906	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
Q	425m SE	Unspecified Shaft	1879	1:10560
14	434m E	Unspecified Shaft	1879	1:10560
T	439m W	Unspecified Shaft	1879	1:10560
Y	524m SW	Unspecified Disused Shaft	1990	1:10000
Y	524m SW	Unspecified Disused Shaft	1976	1:10000
Y	533m SW	Unspecified Shaft	1879	1:10560
27	594m S	Unspecified Shaft	1879	1:10560
AD	608m W	Unspecified Shaft	1879	1:10560
AF	643m NW	Disused Tin and Copper	1879	1:10560
AF	644m NW	Disused Tin and Copper	1906	1:10560
AF	646m NW	Unspecified Shaft	1879	1:10560
AF	650m NW	Unspecified Shaft	1906	1:10560
AG	651m S	Unspecified Old Shafts	1906	1:10560
AG	651m S	Unspecified Shaft	1879	1:10560
AG	652m S	Unspecified Disused Shafts	1990	1:10000
AG	652m S	Unspecified Disused Shafts	1976	1:10000
AG	652m S	Unspecified Old Shafts	1958	1:10560
AH	671m SE	Unspecified Old Shafts	1906	1:10560
AH	671m SE	Unspecified Shaft	1879	1:10560
-	672m E	Unspecified Shafts	1879	1:10560
AH	672m SE	Unspecified Disused Shafts	1990	1:10000
AH	672m SE	Unspecified Disused Shafts	1976	1:10000
AH	672m SE	Unspecified Old Shafts	1958	1:10560
-	682m S	Unspecified Shaft	1879	1:10560
-	682m S	Unspecified Shaft	1879	1:10560
AJ	691m NW	Unspecified Old Shaft	1906	1:10560
AE	692m SE	Unspecified Old Shafts	1906	1:10560
AE	692m SE	Unspecified Shafts	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	693m S	Unspecified Disused Shafts	1990	1:10000
-	693m S	Unspecified Disused Shafts	1976	1:10000
-	693m S	Unspecified Old Shaft	1958	1:10560
31	693m SE	Unspecified Shaft	1879	1:10560
AE	693m SE	Unspecified Disused Shafts	1990	1:10000
AE	693m SE	Unspecified Disused Shafts	1976	1:10000
AE	693m SE	Unspecified Old Shafts	1958	1:10560
-	694m S	Unspecified Shaft	1879	1:10560
-	696m S	Unspecified Shaft	1906	1:10560
AL	700m NE	Tin and Copper Mine	1879	1:10560
-	701m S	Unspecified Disused Shafts	1990	1:10000
-	701m S	Unspecified Disused Shafts	1976	1:10000
AE	705m SE	Unspecified Old Shafts	1906	1:10560
AE	705m SE	Unspecified Shafts	1879	1:10560
-	706m E	Unspecified Shafts	1879	1:10560
AE	706m SE	Unspecified Disused Shafts	1990	1:10000
AE	706m SE	Unspecified Disused Shafts	1976	1:10000
AE	706m SE	Unspecified Old Shafts	1958	1:10560
AM	713m NW	Disused Tin and Copper Mine	1906	1:10560
AM	713m NW	Disused Tin and Copper Mine	1879	1:10560
-	717m S	Unspecified Disused Shafts	1990	1:10000
-	717m S	Unspecified Disused Shafts	1976	1:10000
-	718m S	Unspecified Shaft	1879	1:10560
-	719m E	Unspecified Shaft	1879	1:10560
35	730m NW	Unspecified Shaft	1879	1:10560
AM	730m NW	Unspecified Disused Mine	1958	1:10560
-	732m S	Disused Tin	1906	1:10560
-	735m S	Unspecified Shaft	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	738m S	Unspecified Disused Shafts	1990	1:10000
-	738m S	Unspecified Disused Shafts	1976	1:10000
-	741m S	Unspecified Shaft	1958	1:10560
-	742m S	Unspecified Shaft	1958	1:10560
-	743m S	Unspecified Shaft	1879	1:10560
-	744m S	Unspecified Shaft	1906	1:10560
-	744m S	Unspecified Shaft	1906	1:10560
-	744m S	Unspecified Shaft	1879	1:10560
AL	750m NE	Unspecified Shaft	1906	1:10560
AL	753m NE	Unspecified Disused Shaft	1980	1:10000
AL	753m NE	Unspecified Disused Shaft	1974	1:10000
AL	763m NE	Unspecified Shaft	1958	1:10560
-	765m S	Unspecified Shaft	1879	1:10560
AL	775m NE	Unspecified Disused Shaft	1992	1:10000
AL	775m NE	Unspecified Disused Shaft	1980	1:10000
AL	775m NE	Unspecified Disused Shaft	1974	1:10000
AL	776m NE	Unspecified Shaft	1879	1:10560
-	781m S	Engine Shaft	1906	1:10560
-	784m E	Unspecified Shaft	1879	1:10560
-	792m S	Engine Shaft	1879	1:10560
-	795m S	Unspecified Disused Shaft	1990	1:10000
-	795m S	Unspecified Disused Shaft	1976	1:10000
-	797m NW	Unspecified Disused Mine	1990	1:10000
-	797m NW	Unspecified Disused Mine	1976	1:10000
AP	799m SE	Unspecified Old Shaft	1958	1:10560
AP	804m SE	Unspecified Disused Shaft	1992	1:10000
AP	804m SE	Unspecified Disused Shaft	1980	1:10000
AP	804m SE	Unspecified Disused Shaft	1974	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
AP	804m SE	Unspecified Disused Shaft	1980	1:10000
AL	804m NE	Unspecified Shaft	1879	1:10560
AP	806m SE	Unspecified Old Shaft	1906	1:10560
AP	806m SE	Unspecified Shaft	1879	1:10560
AS	825m NE	Unspecified Old Shaft	1906	1:10560
AS	829m NE	Unspecified Old Shaft	1879	1:10560
AS	831m NE	Unspecified Old Shaft	1958	1:10560
AQ	834m SE	Unspecified Old Shaft	1958	1:10560
-	835m E	Unspecified Shaft	1879	1:10560
AQ	837m SE	Unspecified Disused Shaft	1992	1:10000
AQ	837m SE	Unspecified Disused Shaft	1980	1:10000
AQ	837m SE	Unspecified Disused Shaft	1974	1:10000
AQ	837m SE	Unspecified Disused Shaft	1980	1:10000
AQ	839m SE	Unspecified Shaft	1906	1:10560
AQ	855m SE	Unspecified Old Shafts	1958	1:10560
-	864m NW	Unspecified Disused Shaft	1990	1:10000
-	872m SE	Unspecified Shaft	1879	1:10560
-	873m NW	Unspecified Disused Shaft	1976	1:10000
-	884m NW	Unspecified Shaft	1879	1:10560
-	910m SE	Unspecified Old Shafts	1906	1:10560
-	910m SE	Unspecified Shaft	1879	1:10560
-	914m E	Unspecified Shaft	1879	1:10560
-	918m W	Tin and Copper Mine	1878	1:10560
-	922m SE	Unspecified Old Shaft	1958	1:10560
-	923m W	Tin and Copper Mine	1938	1:10560
-	926m S	Engine Shaft	1906	1:10560
-	928m SE	Unspecified Old Shafts	1906	1:10560
-	928m SE	Unspecified Shaft	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	931m W	Unspecified Shaft	1878	1:10560
-	933m NE	Unspecified Old Shaft	1958	1:10560
-	936m SW	Unspecified Old Shafts	1958	1:10560
-	937m W	Unspecified Disused Shaft	1976	1:10000
-	937m W	Unspecified Old Shaft	1958	1:10560
-	939m W	Unspecified Old Shaft	1938	1:10560
-	940m SW	Unspecified Old Shafts	1906	1:10560
-	941m NE	Unspecified Old Shaft	1906	1:10560
-	941m NE	Unspecified Old Shaft	1879	1:10560
-	943m E	Unspecified Shaft	1879	1:10560
-	944m S	Engine Shaft	1879	1:10560
-	945m SW	Unspecified Disused Shaft	1976	1:10000
-	951m SW	Unspecified Shaft	1879	1:10560
-	953m SW	Disused Tin Mine	1906	1:10560
-	953m SW	Disused Tin Mine	1879	1:10560
-	965m SE	Unspecified Old Shaft	1958	1:10560
-	971m SE	Unspecified Old Shafts	1906	1:10560
-	971m SE	Unspecified Shaft	1879	1:10560
-	972m SW	Unspecified Old Shafts	1906	1:10560
-	985m S	Unspecified Disused Shaft	1990	1:10000
-	985m S	Unspecified Disused Shaft	1976	1:10000
-	985m S	Unspecified Shaft	1958	1:10560
-	987m S	Unspecified Shaft	1906	1:10560
-	990m S	Unspecified Shaft	1879	1:10560
-	991m SE	Disused Tin and Copper Mine	1906	1:10560
-	991m SE	Disused Tin and Copper Mine	1879	1:10560
-	994m SW	Unspecified Old Shafts	1958	1:10560
-	999m SE	Unspecified Disused Mine	1958	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	999m E	Unspecified Old Shaft	1906	1:10560
-	999m E	Unspecified Shaft	1879	1:10560
-	1000m SW	Unspecified Old Shafts	1958	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

25

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
A	On site	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
2	93m NE	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered



ID	Location	Name	Commodity	Class	Likelihood
D	124m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
8	297m NE	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
11	397m NE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
12	417m E	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
13	417m E	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
U	436m E	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
18	483m SW	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
19	511m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
20	527m NE	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
22	531m N	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered



ID	Location	Name	Commodity	Class	Likelihood
23	538m NW	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
25	549m NE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
37	748m S	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
38	749m NE	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
-	764m W	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	848m S	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
-	903m E	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	920m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	935m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	940m NW	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered



ID	Location	Name	Commodity	Class	Likelihood
-	994m S	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	997m E	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

26

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Mine Address	Mineral	Data source	Publisher
3	121m E	Trengwith/goodspeed, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
4	152m NW	Captain, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
6	233m N	Silver Hoskings, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
M	350m SE	Carn Brea East, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
T	434m W	Paul, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
15	437m E	Redruth, Cornwall	Cassiterite, Tin, Tinstone	-	-
X	450m W	Union, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.



ID	Location	Mine Address	Mineral	Data source	Publisher
X	450m W	Union Min.co., Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
29	651m NW	Tolgus Consols, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	657m W	Breeches, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	657m W	Prosper, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	700m NE	Park-An-Skimmer, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	753m E	Pednandrea United, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	815m NE	An Drump, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	819m E	Sparnon, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	823m S	Uny, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER



ID	Location	Mine Address	Mineral	Data source	Publisher
-	852m N	Alice, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	852m N	Redruth Consols, Redruth, Cornwall	Unknown	MINES AND MINERS OF CORNWALL: INDEX TO VOLUMES 1-16	ST AUSTELL : OLD CORNWALL PUBLICATIONS
-	852m N	Tolgus East, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	873m NW	Tolgus Great South, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	893m SE	Bucketts, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	893m SE	Clijah & Wentworth, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	893m SE	Perseverance, Redruth, Cornwall	Cassiterite, Tin, Tinstone	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	893m SE	Uny East, Redruth, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	898m SW	Metal Work Old, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.



ID	Location	Mine Address	Mineral	Data source	Publisher
-	975m NE	Dopps Mine, Redruth, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0
------------------------	----------

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0
------------------------	----------

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
------------------------	----------

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
------------------------	----------

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

1

Generalised areas that may be affected by historical tin mining.

Location	Details
On site	The site is within an area where tin mining is reported to have occurred. This does not mean that the site is definitely directly affected but further consideration of tin mining is advised. Further mining searches are available from providers such as Mining Searches UK at https://www.miningsearchesuk.com/ or by writing to Mining Searches UK. Highburrow Lane, Wilson Way, Pool Industrial Estate, Redruth, Cornwall. TR15 3RN Tel: 01209 218861

This data is sourced from Mining Searches UK.

18.13 Clay mining

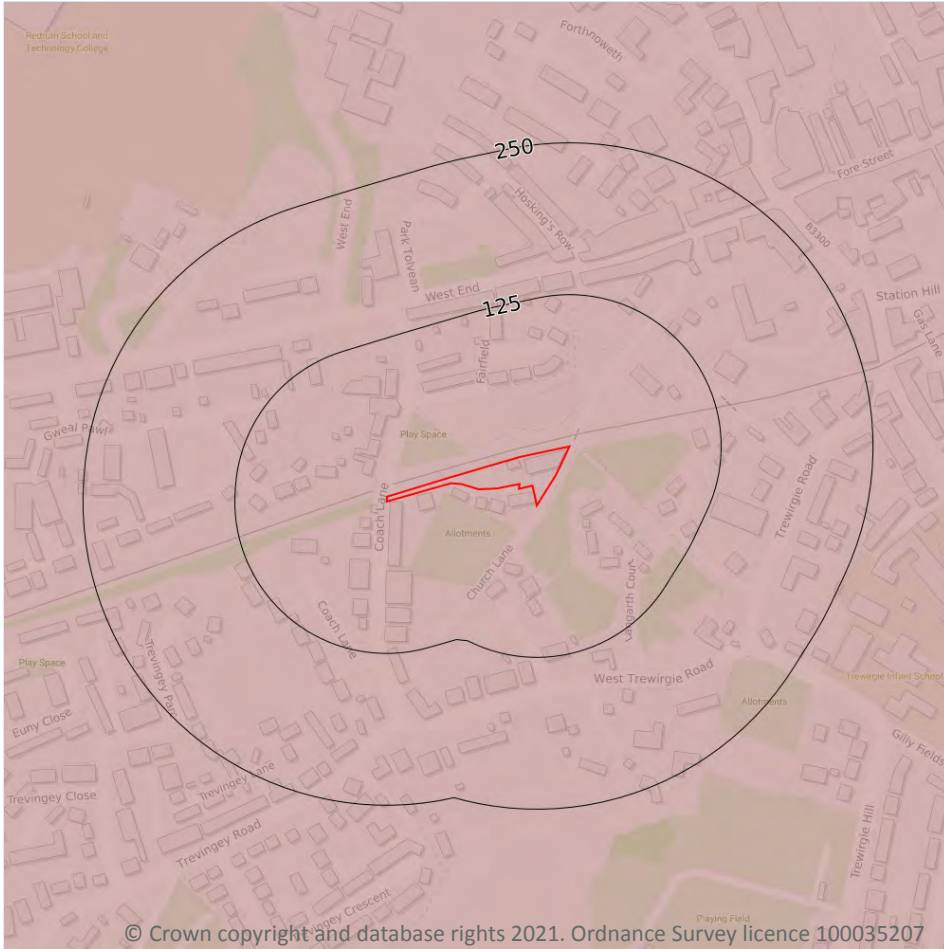
Records on site

0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 115**

Location	Estimated properties affected	Radon Protection Measures required
On site	Greater than 30%	Full

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	>120 mg/kg	> 18 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	>120 mg/kg	> 18 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

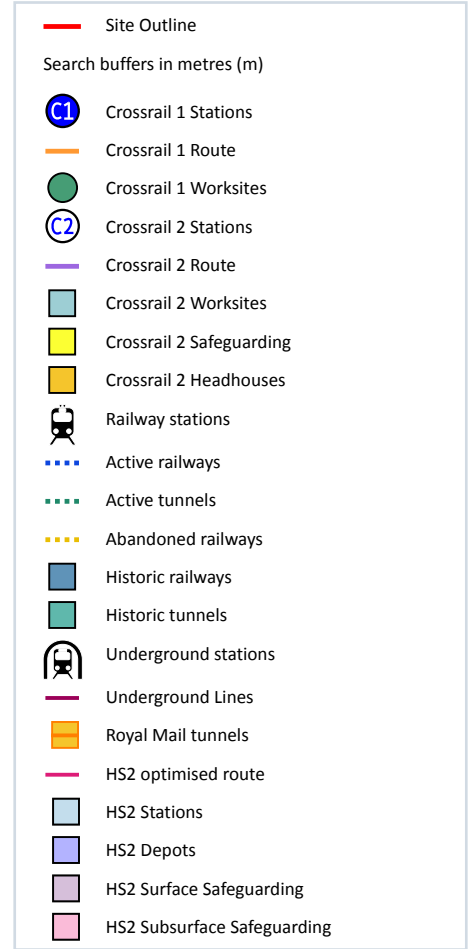
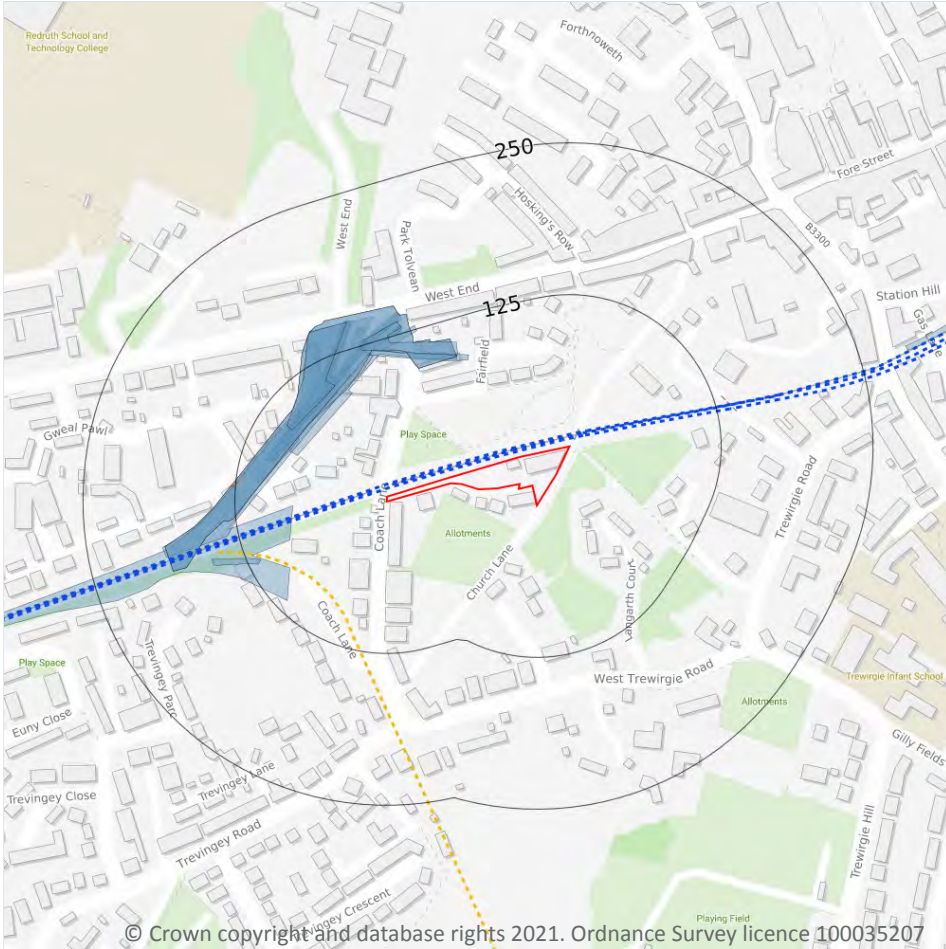
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

12

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 117**

Location	Land Use	Year of mapping	Mapping scale
77m W	Railway	1880	-
78m NW	Railway Sidings	1880	2500
84m NW	Railway Sidings	1958	10560
88m NW	Railway Sidings	1906	10560
88m NW	Railway Sidings	1879	10560
88m NW	Railway Sidings	1908	2500
91m NW	Railway Sidings	1967	1250
92m NW	Railway Sidings	1966	2500
92m N	Railway Sidings	1908	2500
94m NW	Railway Sidings	1938	10560
95m N	Railway Sidings	1938	10560
114m SW	Railway Sidings	1908	2500

This data is sourced from Ordnance Survey/Groundsure.



21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 117**

Location	Description
88m SW	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

17

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 117**

Location	Name	Type
5m N	The Cornish Main Line	rail
7m N	The Cornish Main Line	rail
7m N	Not given	Multi Track
7m N	Not given	Multi Track
9m N	The Cornish Main Line	rail
10m N	The Cornish Main Line	rail
13m W	Not given	Multi Track
15m NE	The Cornish Main Line	rail



Location	Name	Type
16m NE	Not given	Multi Track
19m NE	The Cornish Main Line	rail
134m E	The Cornish Main Line	rail
136m E	The Cornish Main Line	rail
143m E	The Cornish Main Line	rail
145m E	The Cornish Main Line	rail
173m E	Not given	Multi Track
177m E	The Cornish Main Line	rail
177m E	The Cornish Main Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series Town Plan

Map date: 1879

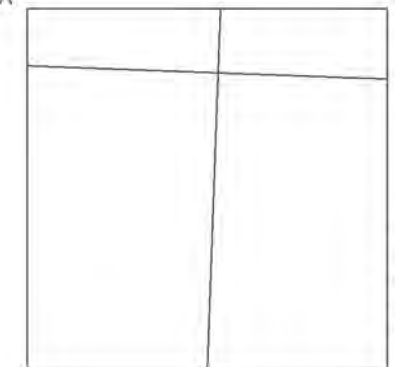
Scale: 1:500

Printed at: 1:1,000



Surveyed 1879
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1879
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1879
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



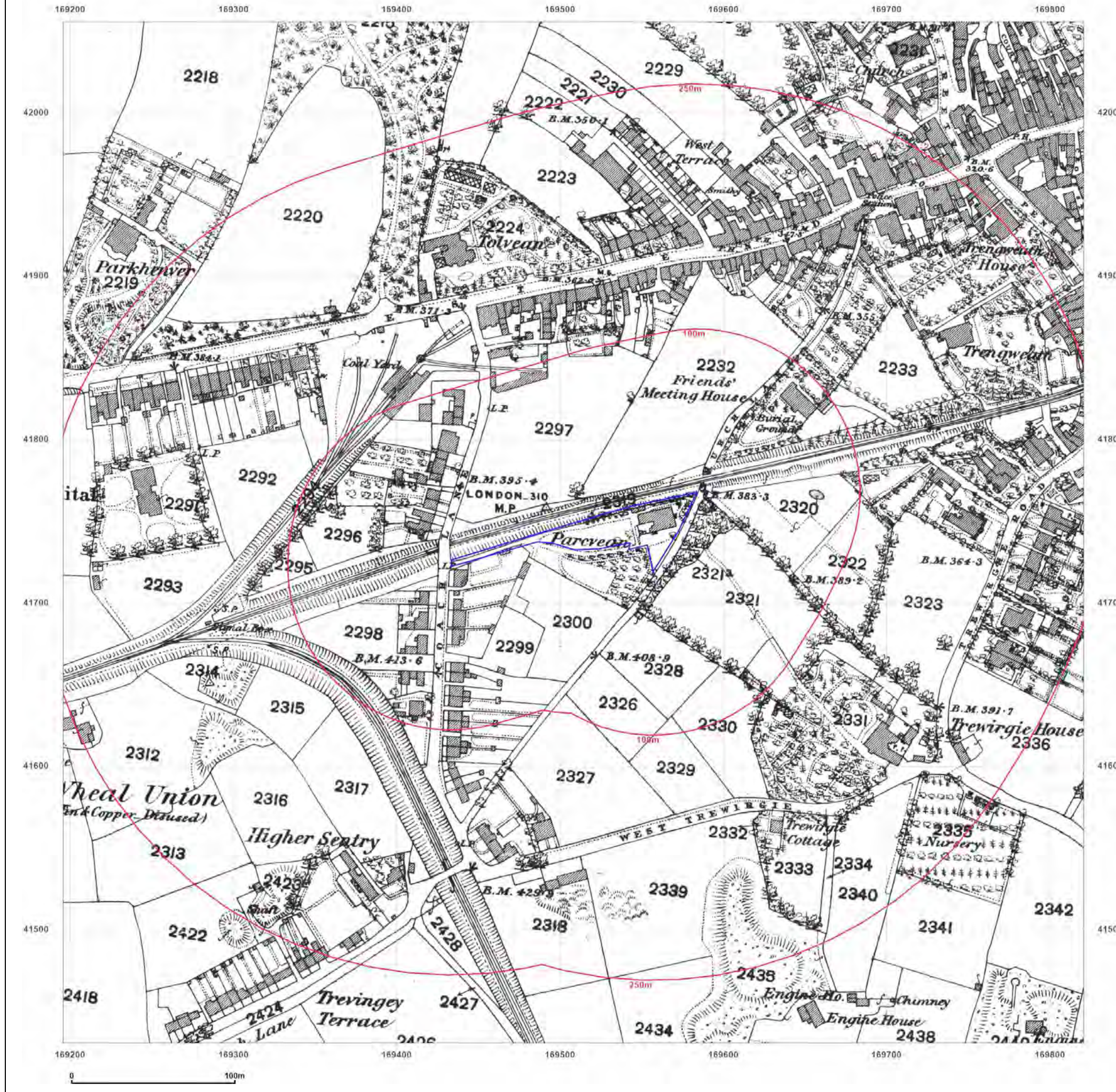
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1908

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1908
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled N/A



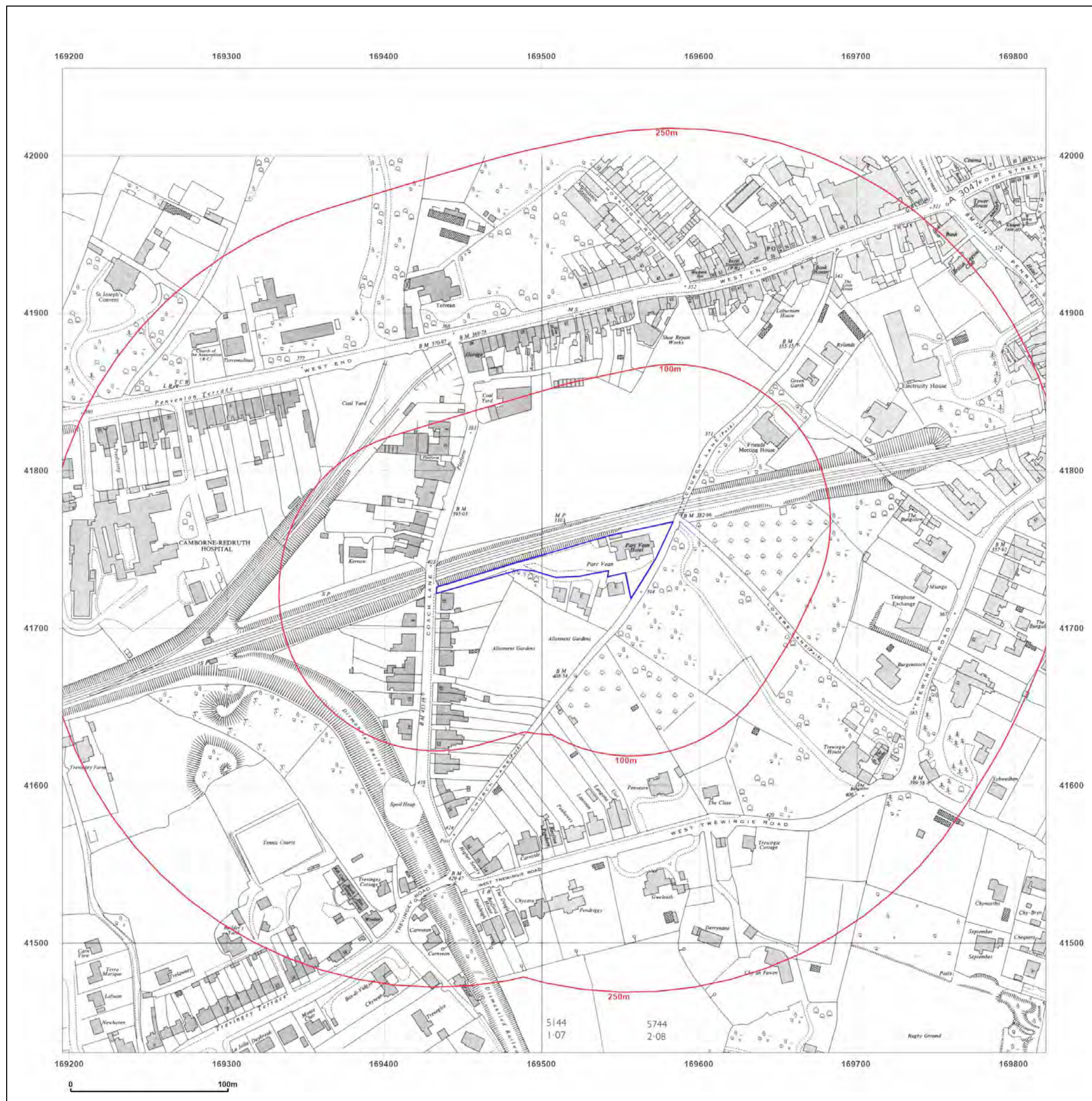
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1955

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953



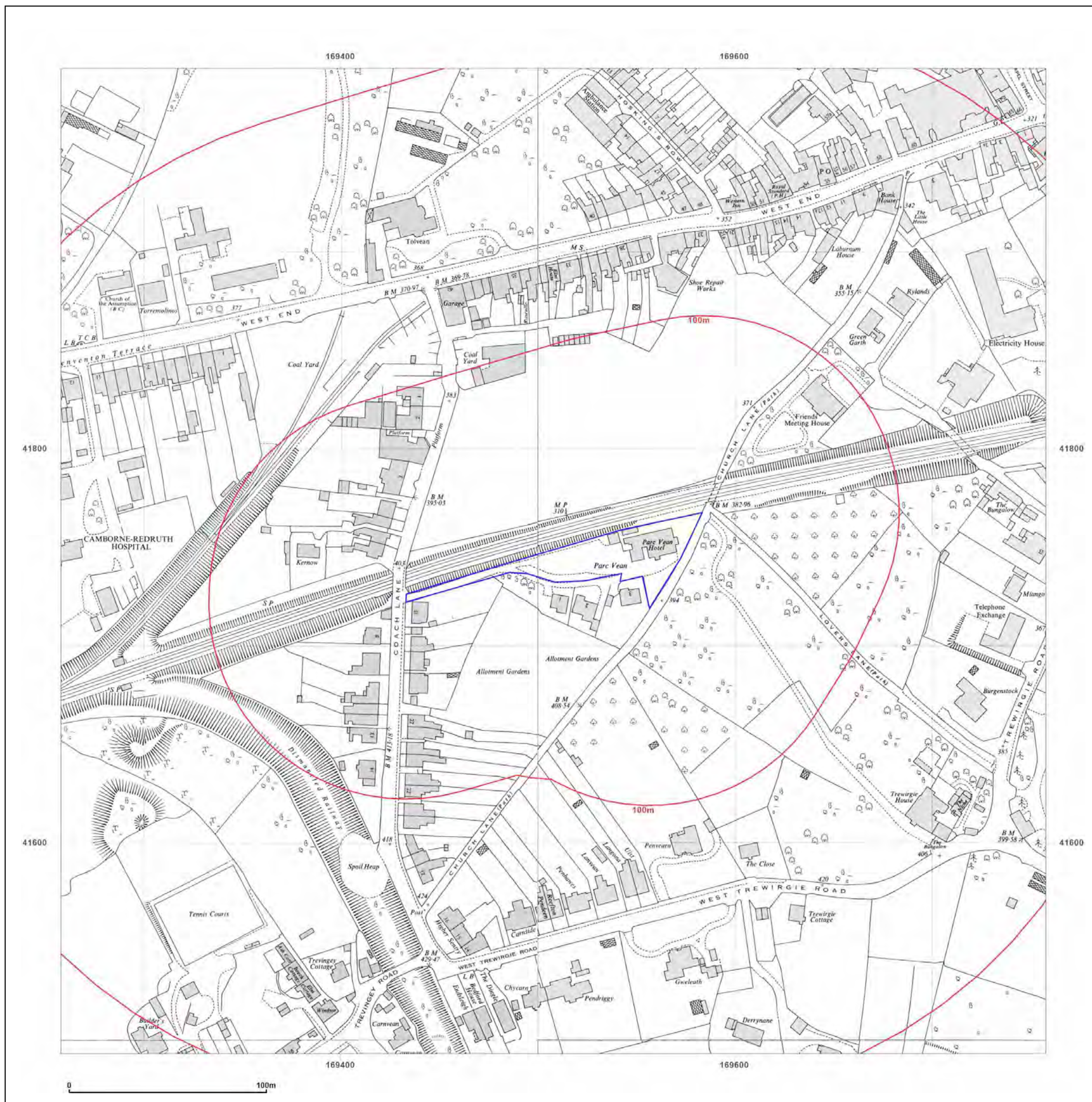
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



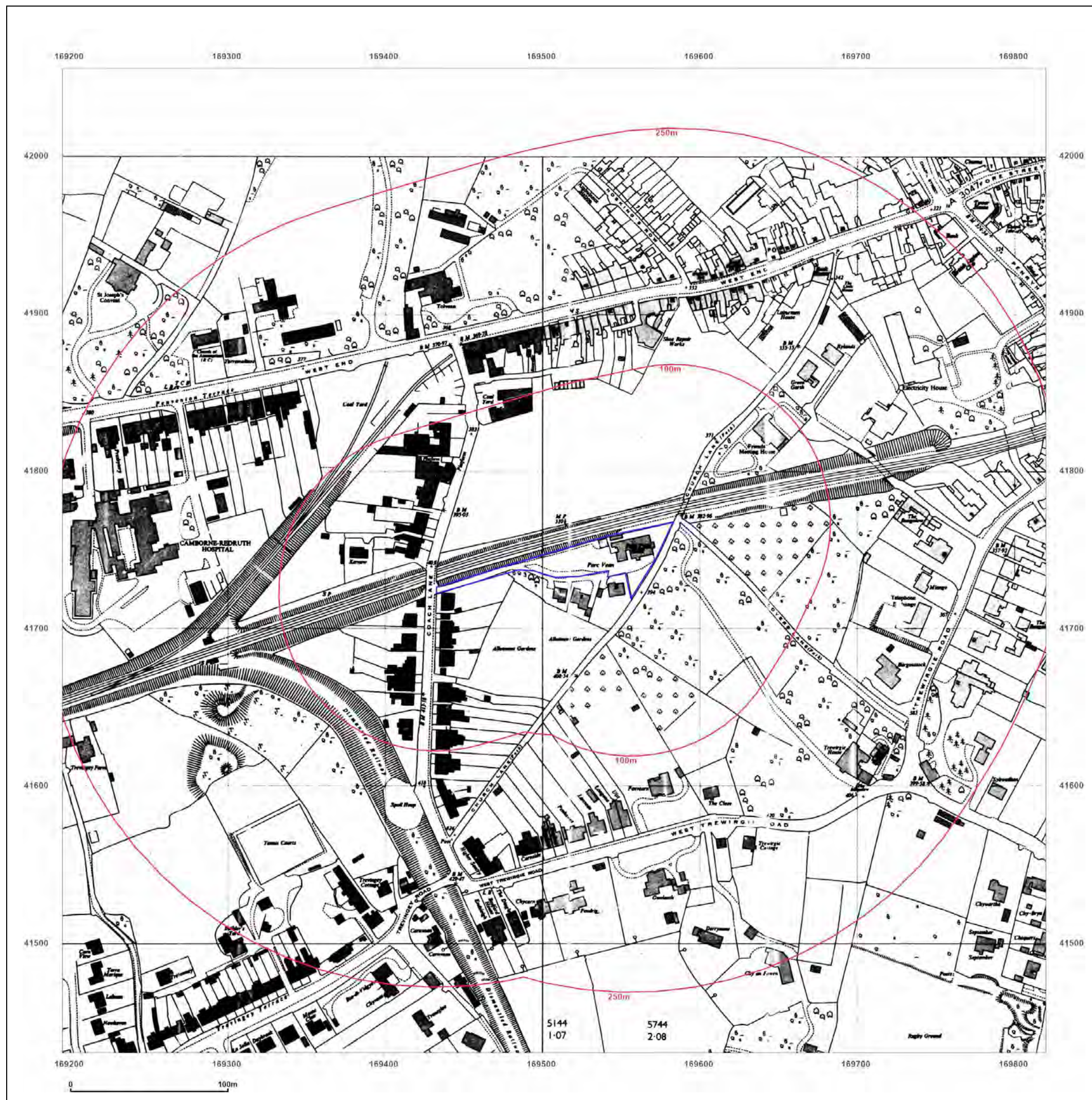
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1977-1979

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1966
Revised 1977
Edition N/A
Copyright 1979
Levelled 1972

Surveyed 1966
Revised 1975
Edition N/A
Copyright 1977
Levelled 1972



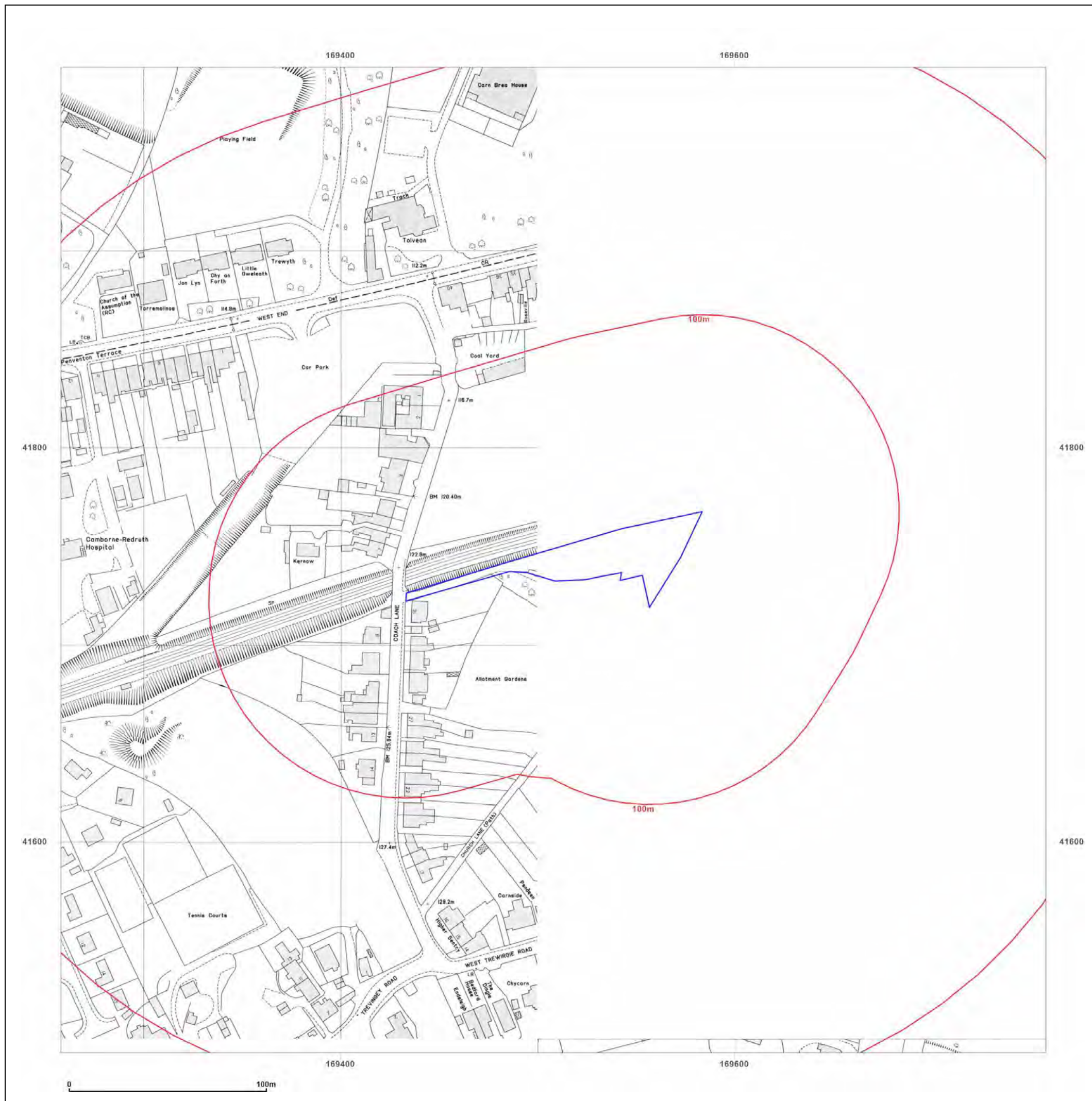
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1989-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1972
Revised 1989
Edition N/A
Copyright 1989
Levelled 1972

Surveyed 1972
Revised 1989
Edition N/A
Copyright 1989
Levelled 1972

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



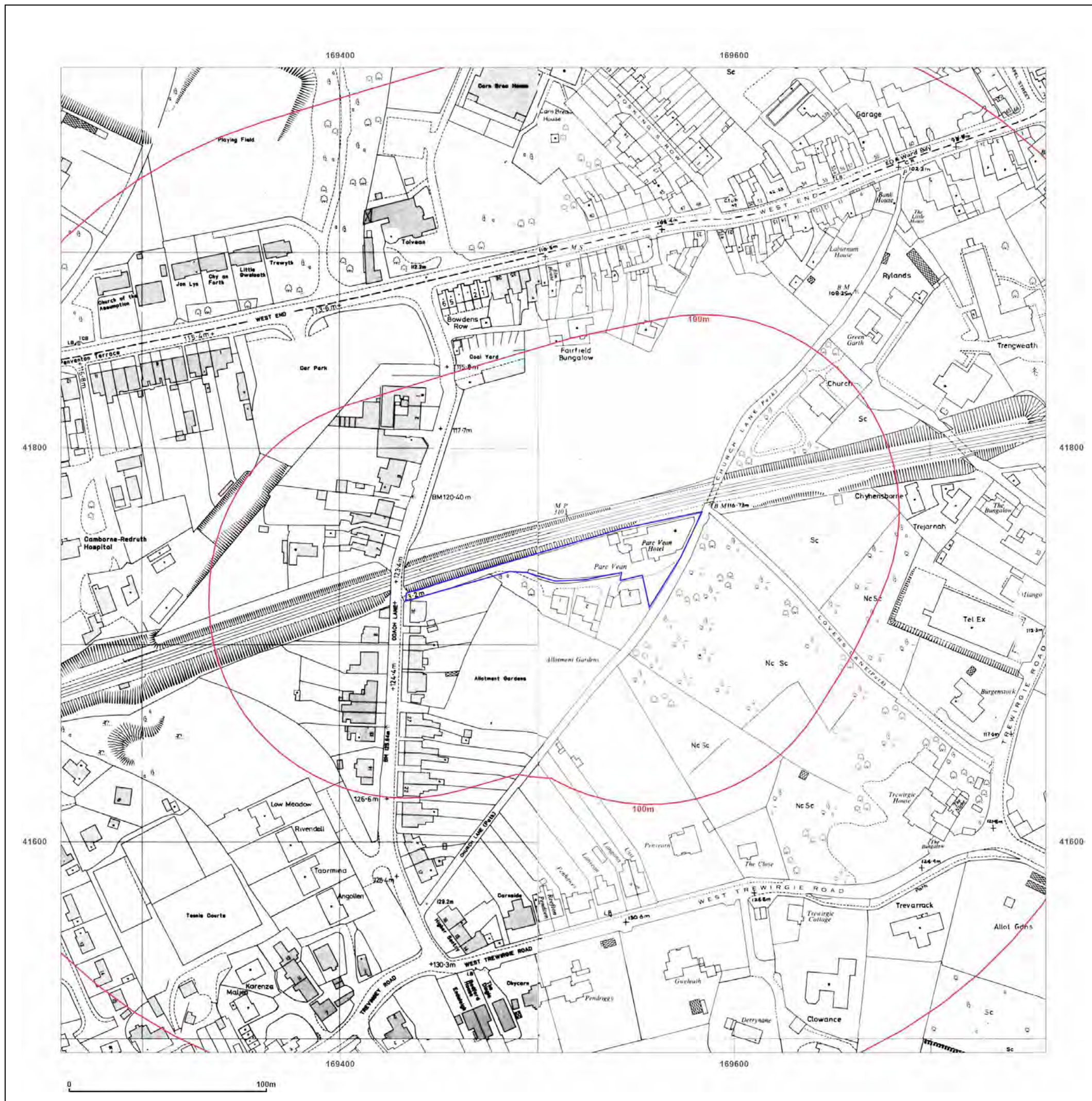
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1989-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed 1972
Revised 1989
Edition N/A
Copyright 1989
Levelled 1972



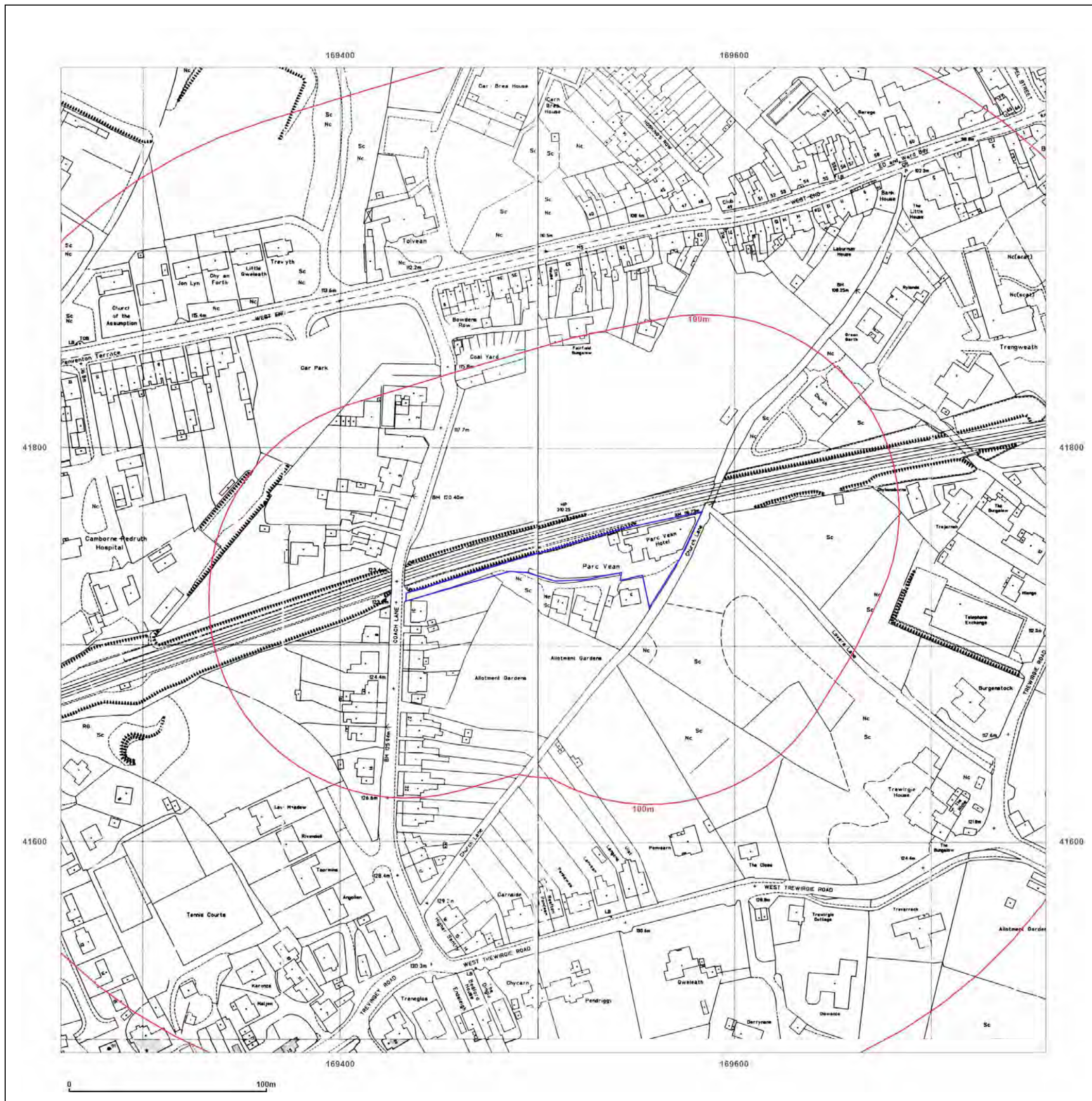
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS LTD,
 PARC VEAN HOUSE,
 PARC VEAN, COACH LANE,
 REDRUTH, TR15 2TT

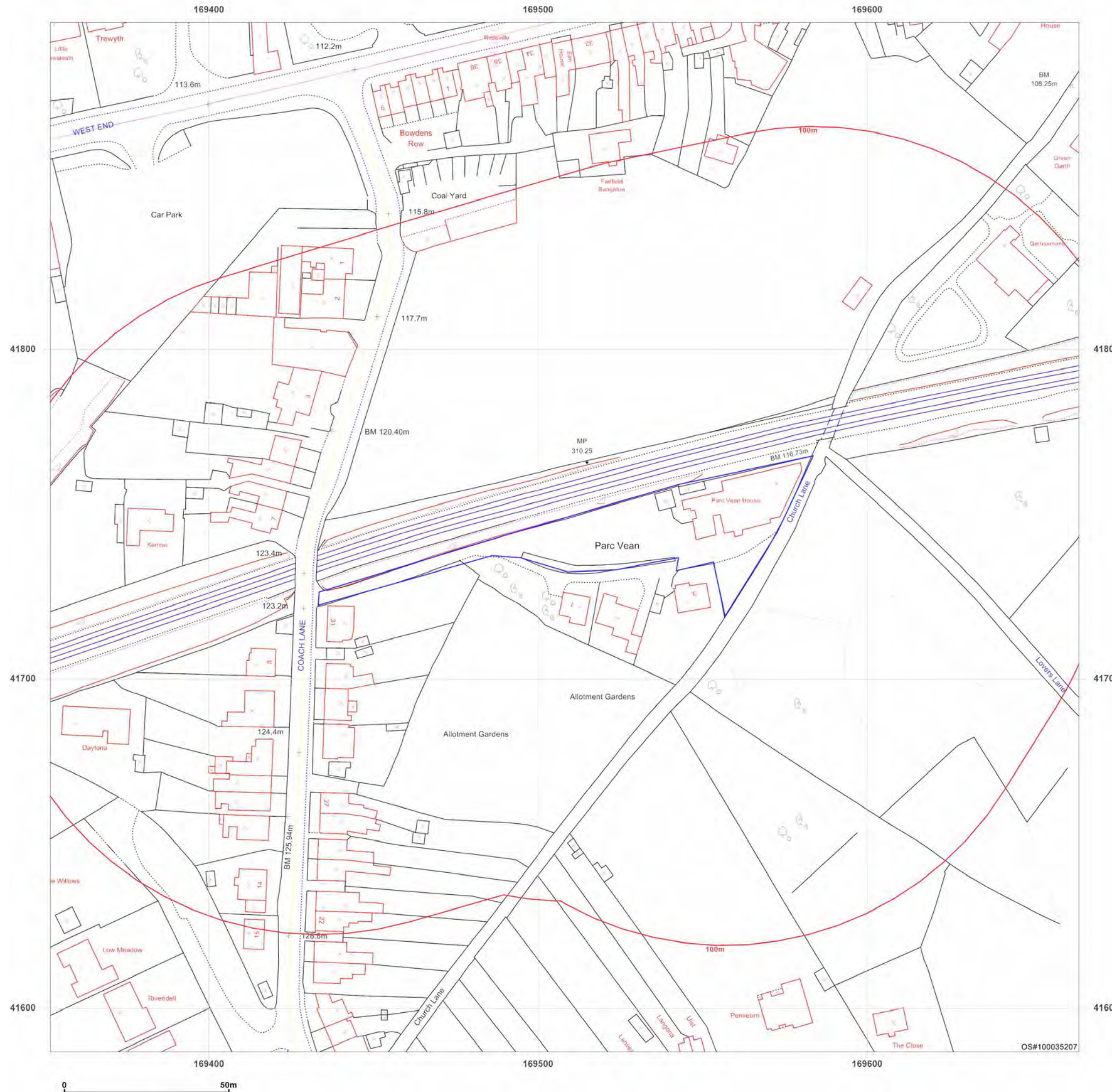
Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1888

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1878
 Revised N/A
 Edition 1888
 Copyright N/A
 Levelled N/A

Surveyed 1879
 Revised N/A
 Edition 1888
 Copyright N/A
 Levelled N/A

Surveyed 1878
 Revised N/A
 Edition 1888
 Copyright N/A
 Levelled N/A

Surveyed 1878
 Revised N/A
 Edition 1888
 Copyright N/A
 Levelled N/A



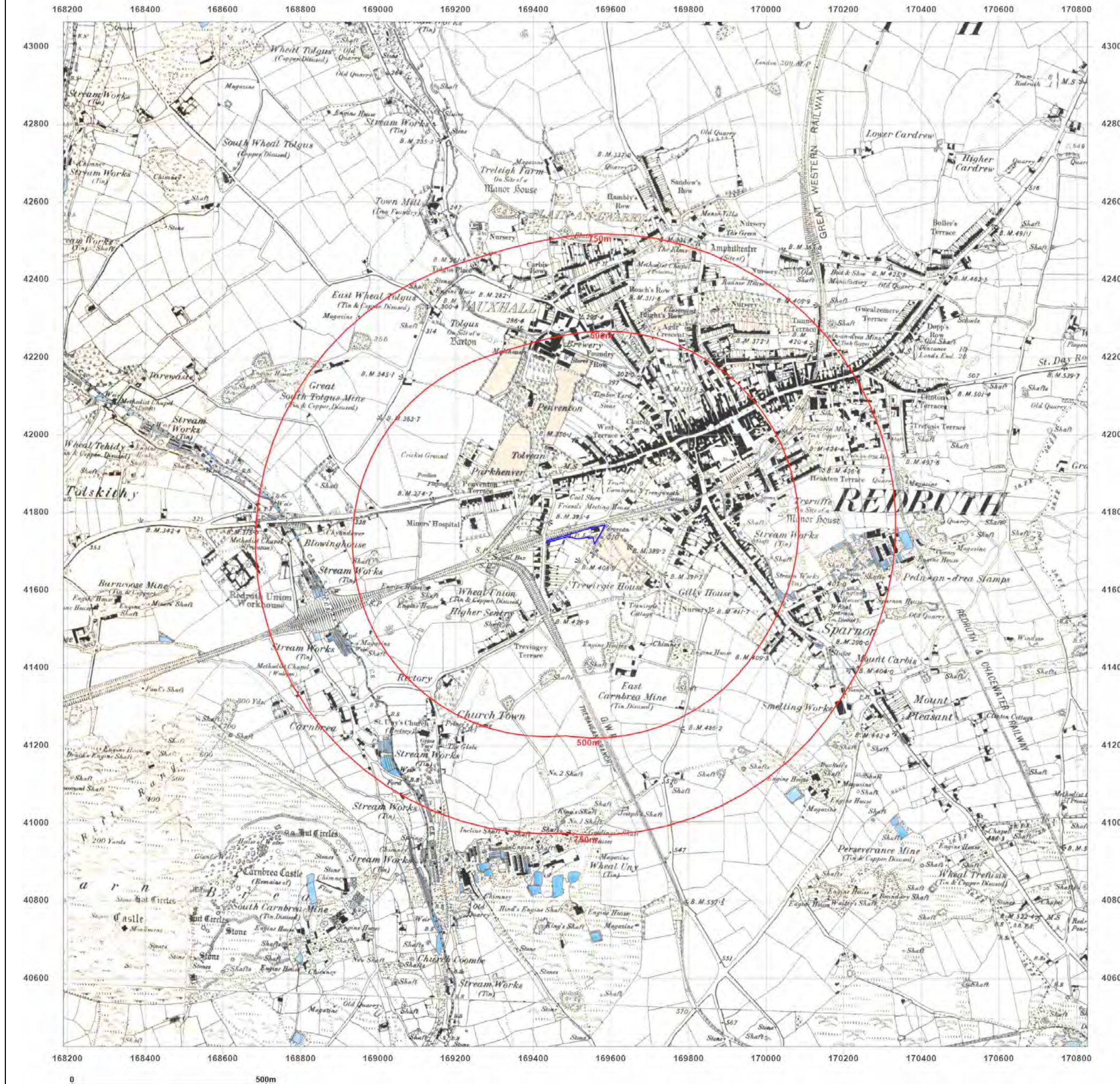
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1906-1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
 Revised 1908
 Edition 1908
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1908
 Edition N/A
 Copyright N/A
 Levelled N/A



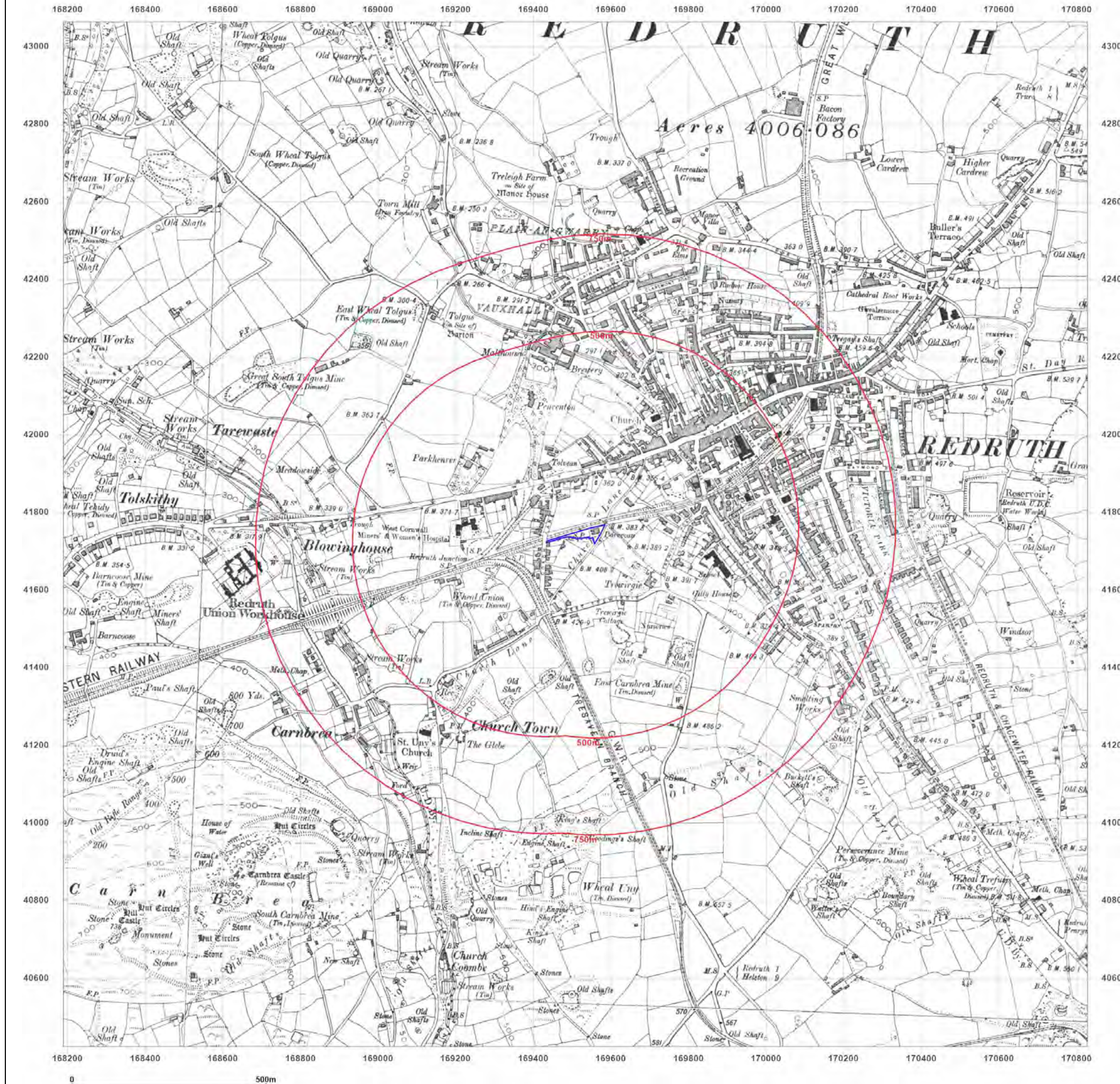
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

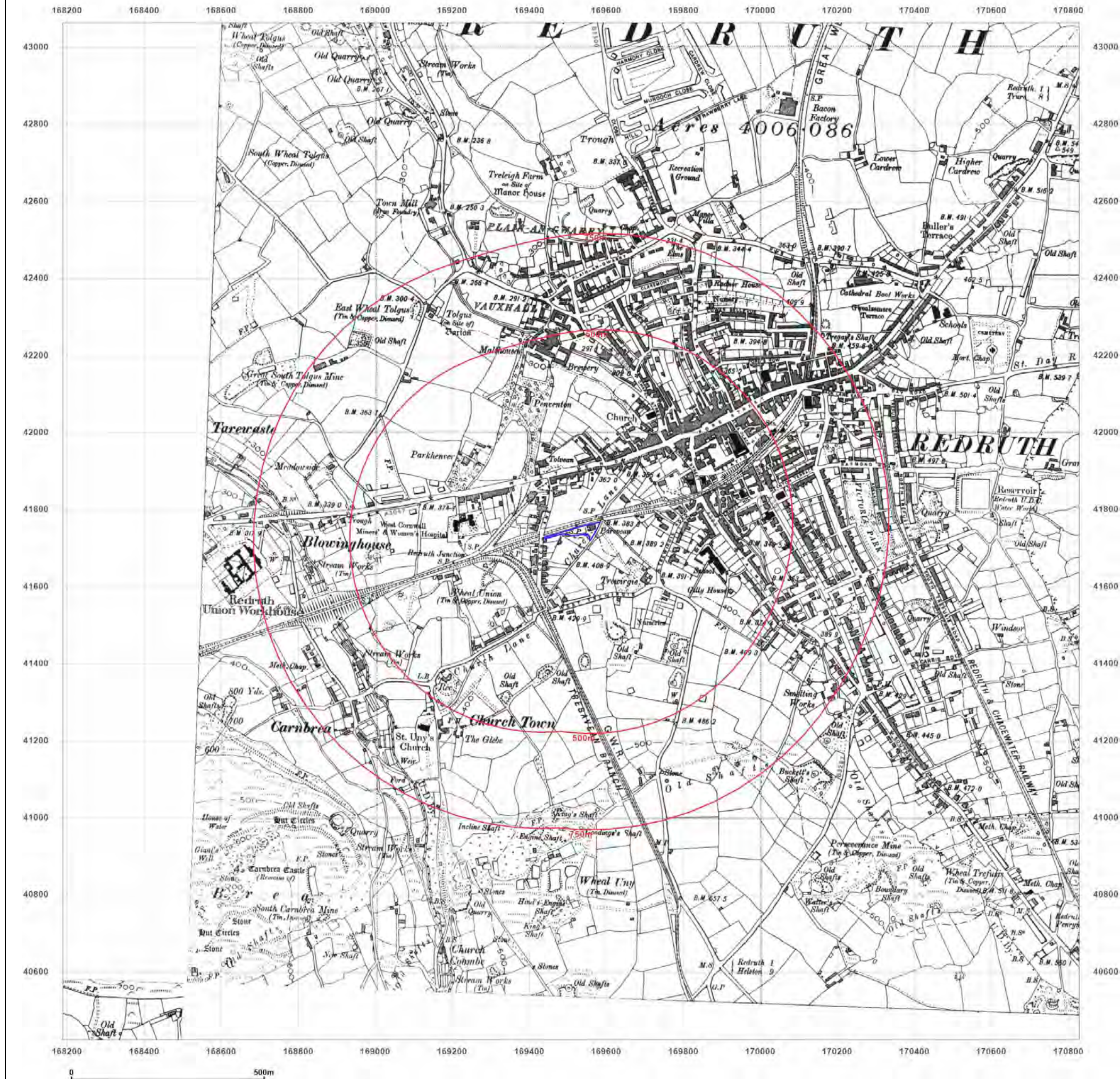


© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

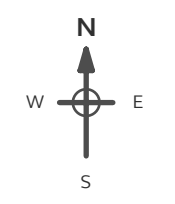
Client Ref: 340052
 Report Ref: GMSU-8091034
 Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



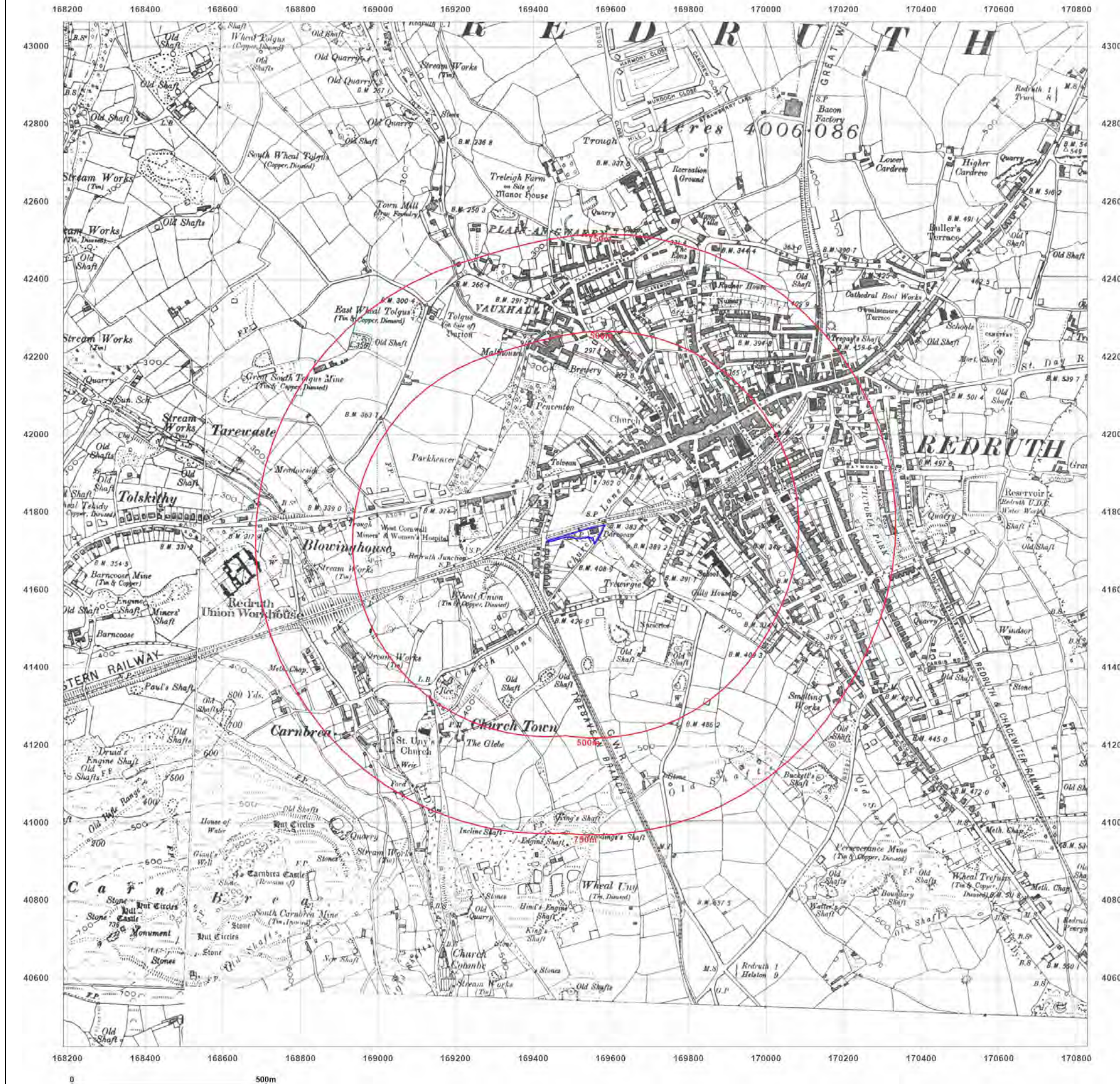
Surveyed 1877
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1877
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: Provisional

Map date: 1958-1963

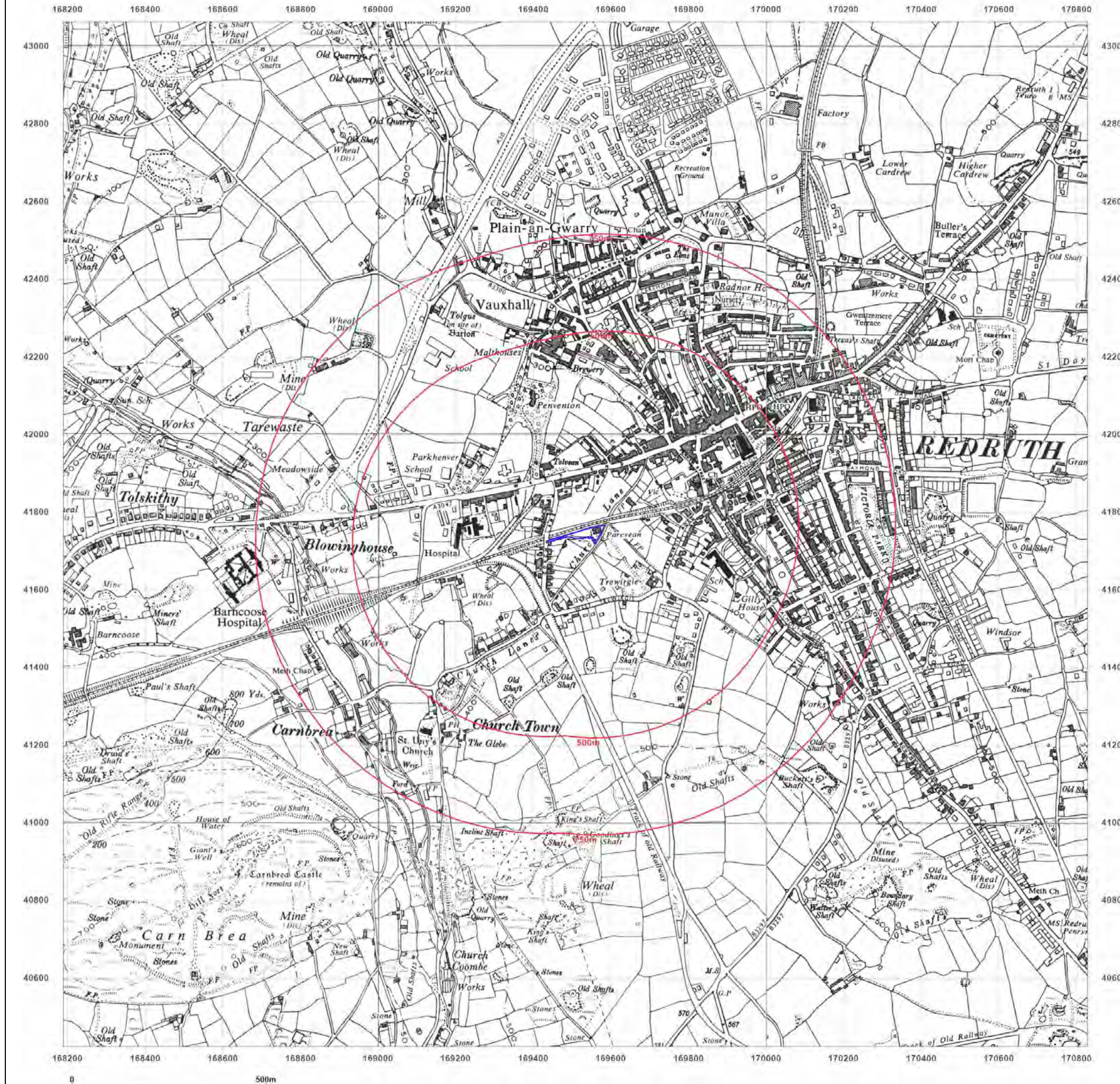
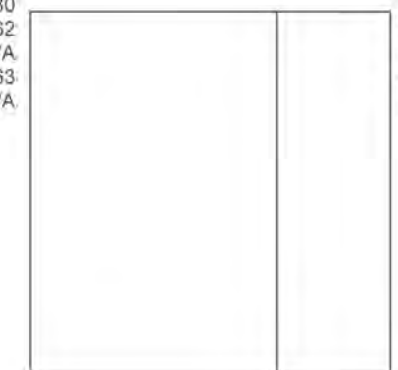
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1930
 Revised 1962
 Edition N/A
 Copyright 1963
 Levelled N/A

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright N/A
 Levelled N/A



Site Details:

CORNWALL CONSULTANTS
LTD, PARC VEAN HOUSE,
PARC VEAN, COACH LANE,
REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1974-1979

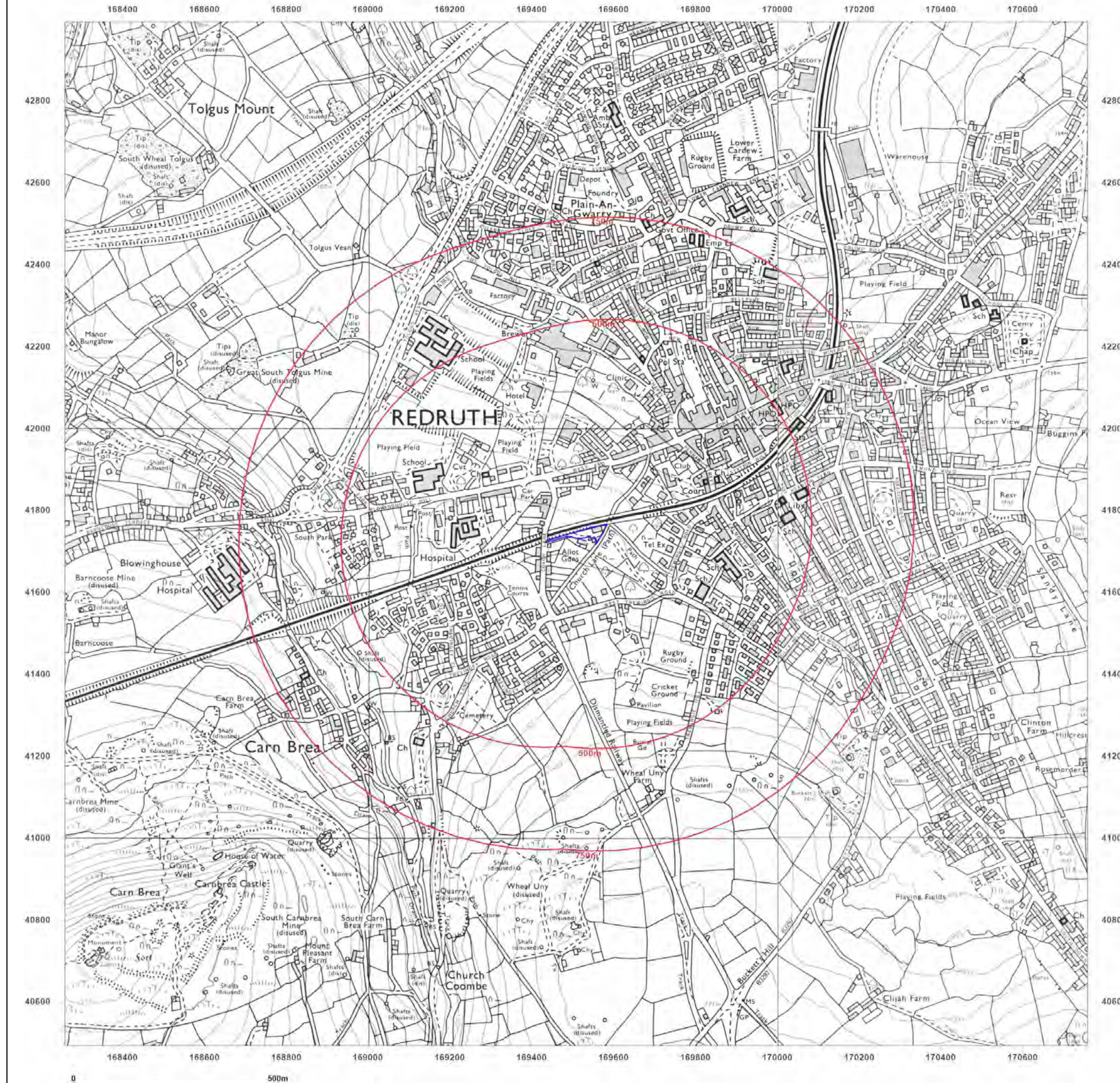
Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
Revised 1978
Edition N/A
Copyright 1979
Levelled N/A

Surveyed 1973
Revised 1974
Edition N/A
Copyright 1974
Levelled N/A



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

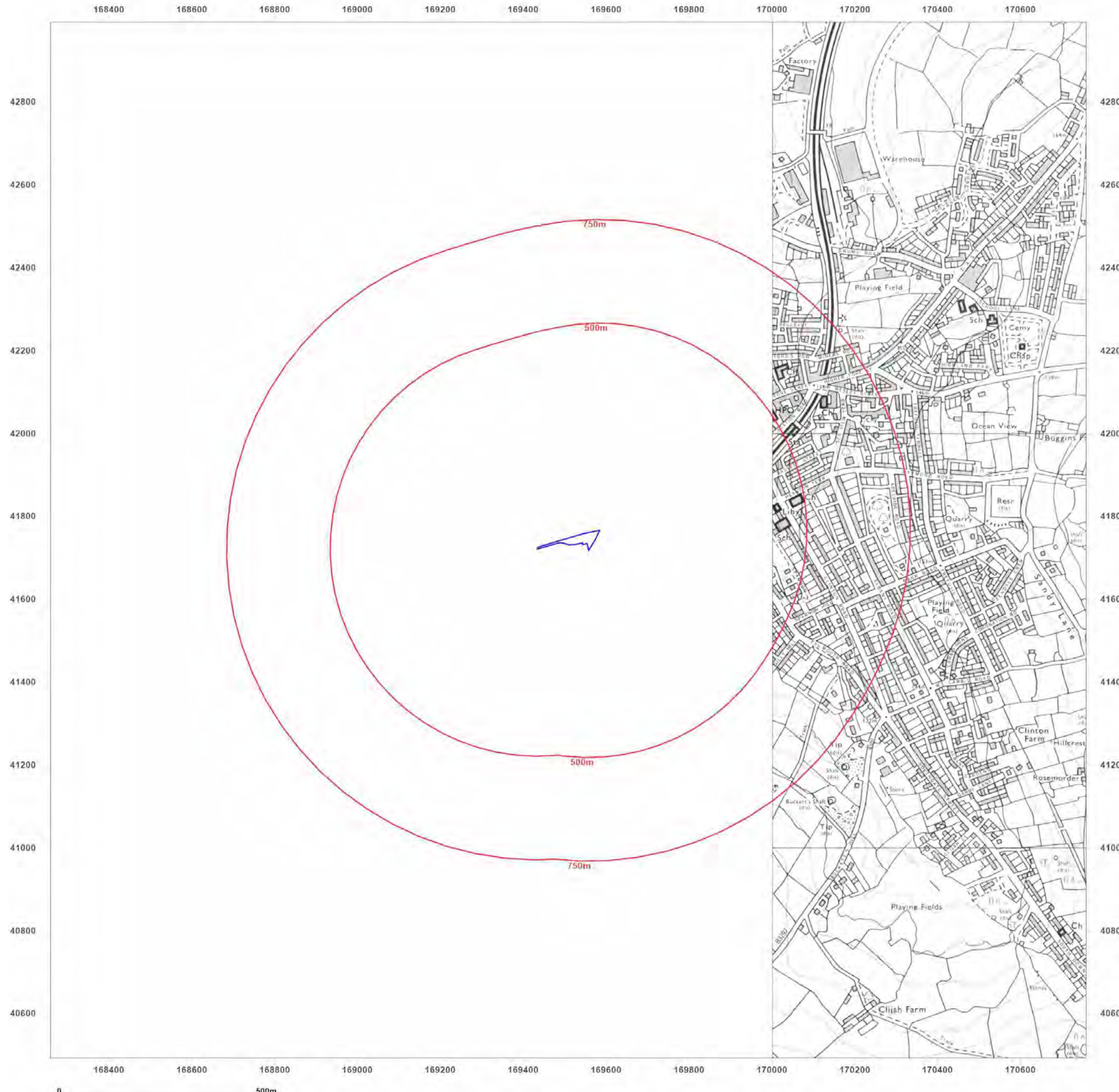
Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
 Revised 1980
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 1990-1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1989
 Revised 1990
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1973
 Revised 1992
 Edition N/A
 Copyright N/A
 Levelled N/A



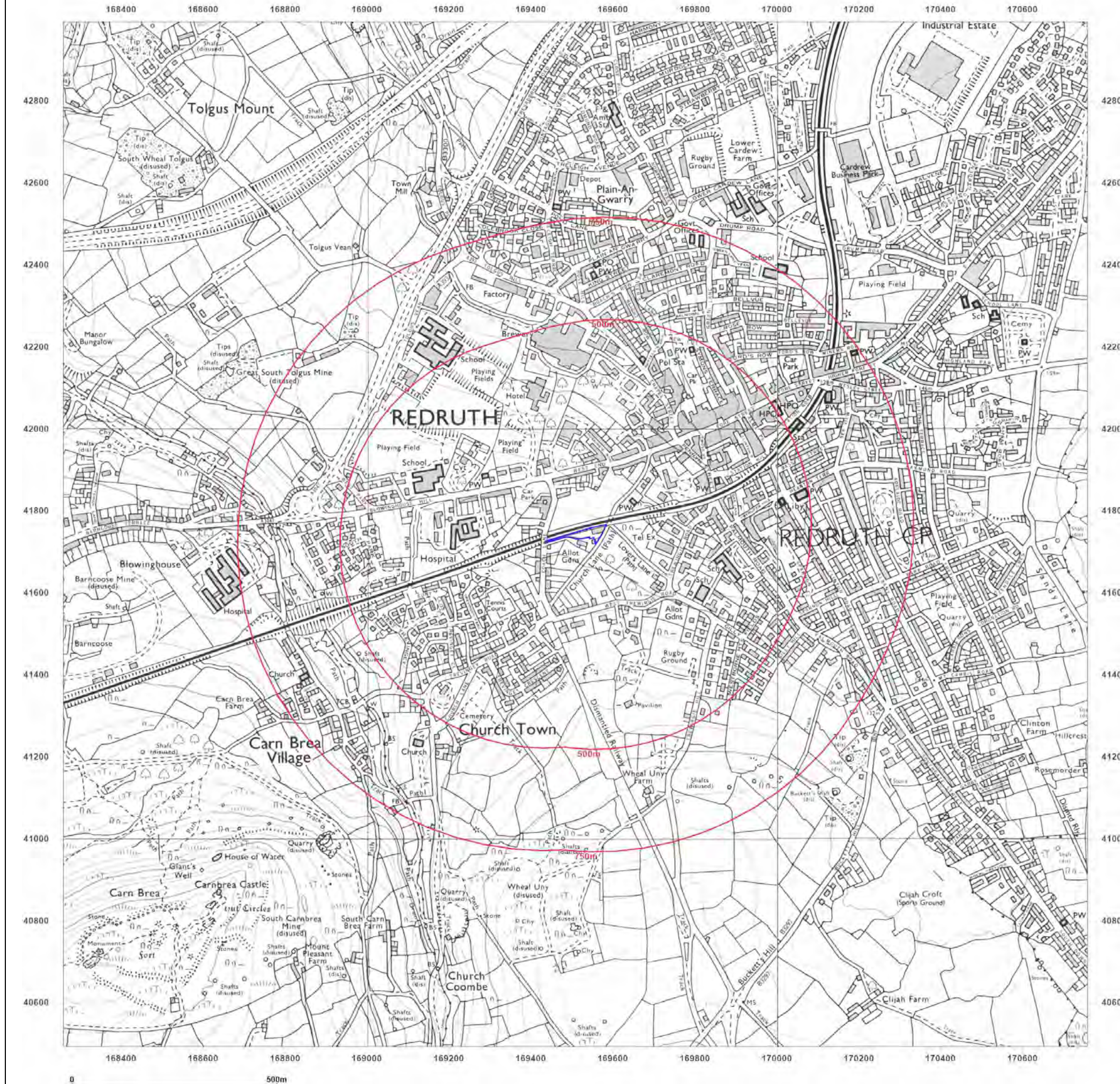
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

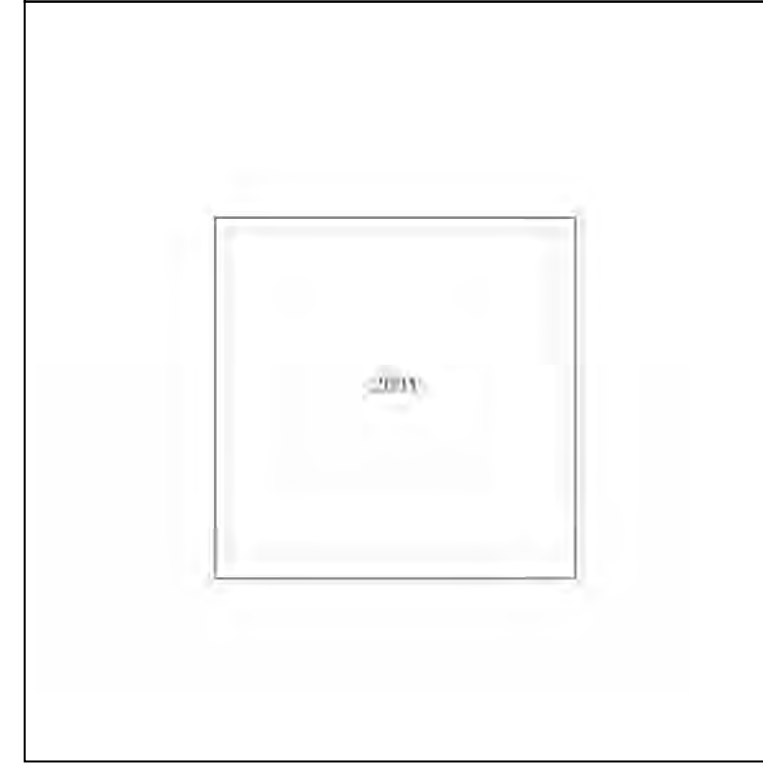
Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



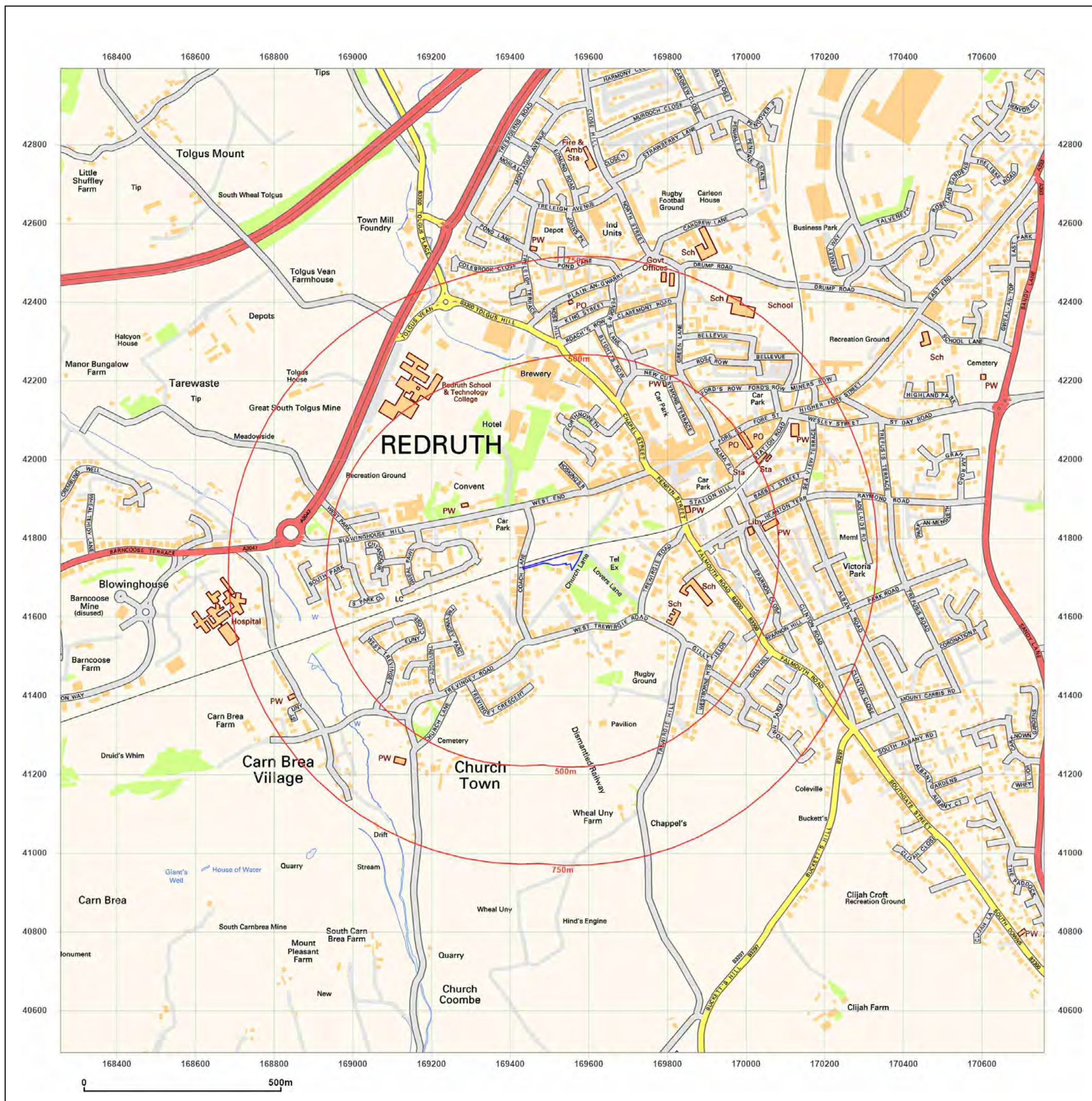
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

CORNWALL CONSULTANTS LTD, PARC VEAN HOUSE, PARC VEAN, COACH LANE, REDRUTH, TR15 2TT

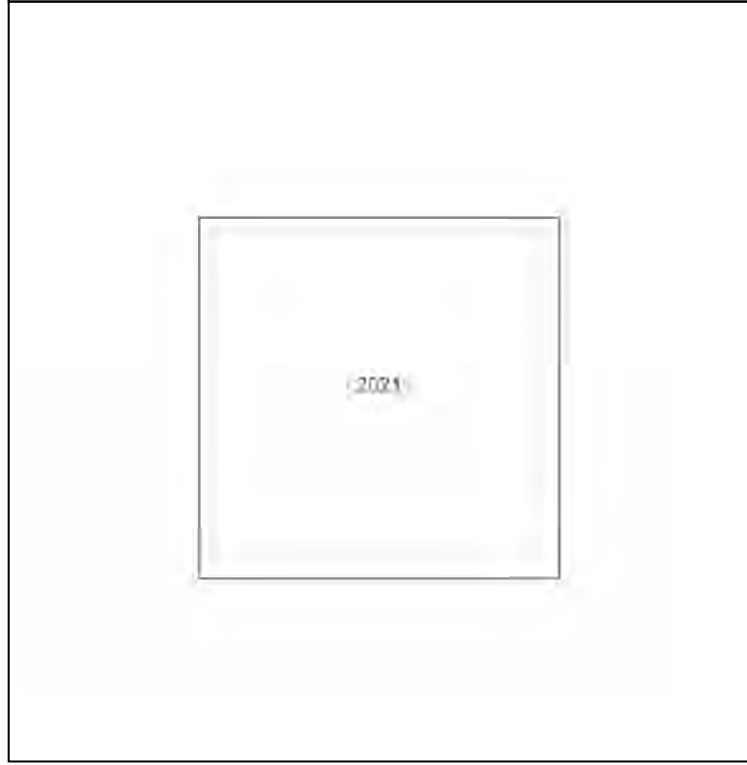
Client Ref: 340052
Report Ref: GSMSU-8091034
Grid Ref: 169508, 41743

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



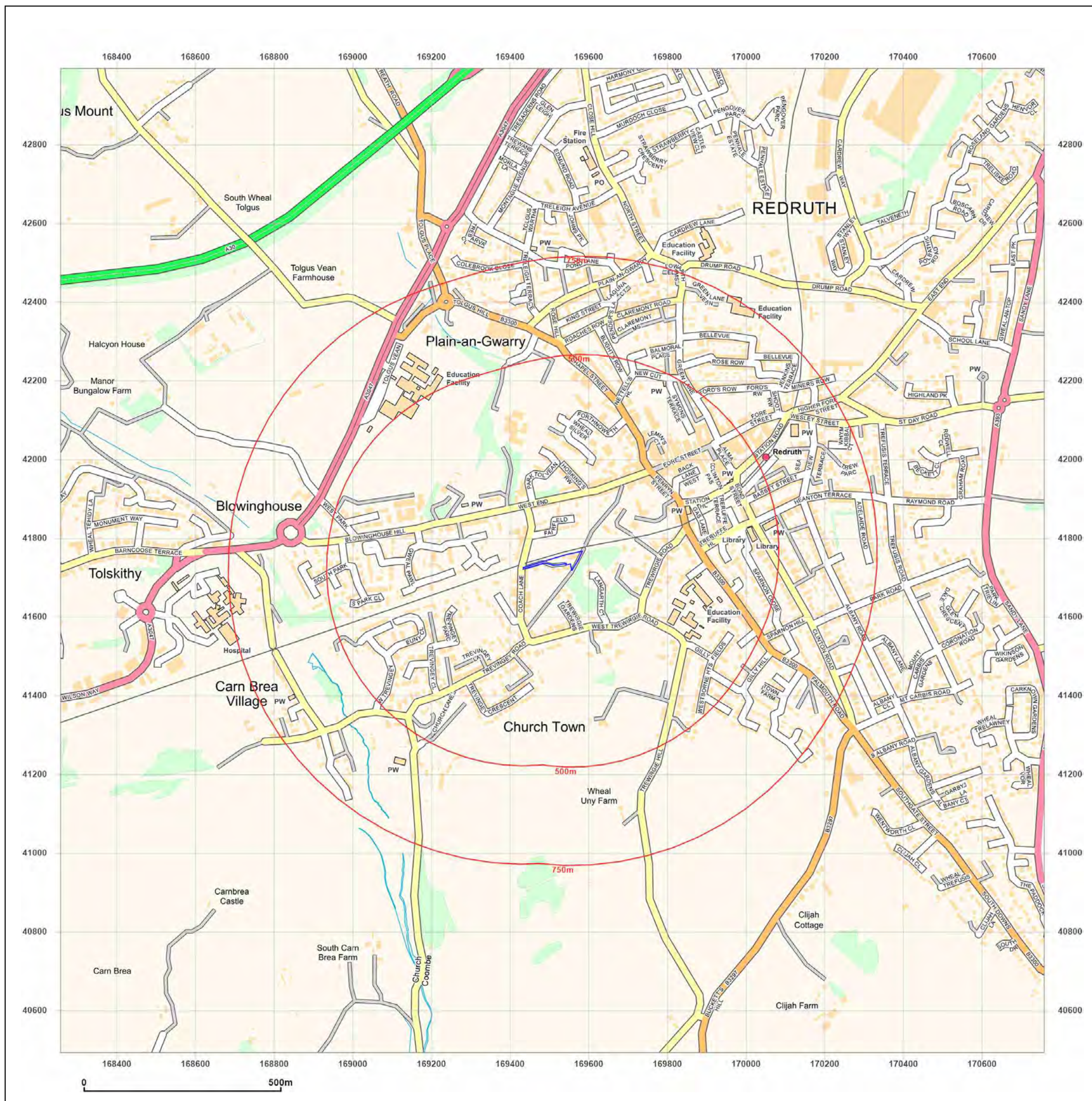
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 02 August 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Risk Evaluation

The following Risk Evaluation has been taken from CIRIA C552, and describes the method we have used to evaluate the environmental risk.

The method used is a qualitative method of interpreting the output from the risk estimation stage of the assessment. It involves the classification of the:

- Magnitude of the potential consequence (**severity**) of risk occurring.
- Magnitude of the probability (**likelihood**) of the risk occurring.

Classification of Consequence

Classification	Definition	Examples
Severe	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, part IIA. Short term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings/property. A short term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of Cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short term human health risk if buildings are occupied).
Medium	Chronic damage to human health ("significant harm" as defined in DETR,2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems with Draft Circular on Contaminated Land, DETR,2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.	Pollution of non classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in financial loss, or expenditure to resolve. Non permanent health affects to human health (easily prevented by means such as personal protective clothing etc.) Easily repairable effects of damage to buildings, structures, and services.	The presence of contaminants such as concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

Classification of Probability

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

These classifications are then compared to indicate the risk presented by each pollutant linkage. It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

Once the consequences and probability have been classified, these can then be compared to produce a risk category, ranging from "very high risk" to "very low risk". The actions corresponding with this classification are given below.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High risk	Moderate risk	Moderate/Low risk
	Likely	High risk	Moderate risk	Moderate/Low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/Low risk	Low risk	Very low risk
	Unlikely	Moderate/Low risk	Low risk	Very low risk	Very low risk

Description of the Classified Risks and Likely Action Required

Very High risk	<p>There is a high possibility that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening.</p> <p>This risk, if realised, is likely to result in a substantial liability.</p> <p>Urgent investigation (if not undertaken already) and remediation are likely to be required.</p>
High risk	<p>Harm is likely to arise to a designated receptor from an identified hazard.</p> <p>Realisation of the risk is likely to present a substantial liability.</p> <p>Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the long term.</p>
Moderate Risk	<p>It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that harm would be relatively mild.</p> <p>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</p>
Low Risk	<p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p>
Very Low Risk	<p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p>