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CONTAMINATED LAND SURVEY PHASE 1

SITE:
SITE AT:
TRERAVEN
ST CLEATHER
LAUNCESTON
CORNWALL
PL15 8PX

CLIENT:
MR & MRS P RISDON
BASIL FARM
ST CLEATHER
LAUNCESTON
CORNWALL
PL15 8QJ

Our Ref: A1782/P1/JW

Date: 17th September 2020

Planning Ref: N/A

OS Grid Ref: SX 1975/8404

Index

1.	Introduction	P.4
2.	Summary and Objectives	P.4
3.	Definition of Contaminated Land	P.5
4.	Site Description & Information	P.6
4.1	Site Location, Population, Historic/Current Use & Setting	P.6
4.2	Additional Reporting Relating to Land Contamination	P.6
5.	Historic OS Mapping	P.7
6.	Visual site inspection	P.8
6.1	Site Layout & Information	P.8
6.2	Site Plan	P.10
6.3	Surrounding Area	P.11
7.	Environmental Setting	P.11
7.1	Geology	P.11
7.2	Mining Information	P.11
7.3	Hydrogeology	P.11
7.4	Water Abstraction	P.12
8.	Homecheck Professional Report Information	P.13
8.1	Surface Water Features	P.13
8.2	Potential Pollution Sources	P.13
8.3	Known Pollution Incidents	P.13
8.4	Discharges to Water	P.13
8.5	Contaminated Land Register	P.13
8.6	Current Industrial Land Use	P.14
8.7	Past Industrial Land Use	P.14
8.8	Flooding	P.15

8.9	Radon Affected Zones	P.15
8.10	Ground Stability Findings	P.15
9.	Preliminary Environmental Risk Assessment/Conceptual Model Showing Potential 'Source-Pathway-Receptor Linkage' Modes	P.16
9.1	Potential Onsite Contamination Sources: Current & Past	P.16
9.2	Potential Offsite Contamination Sources: Current	P.17
9.3	Potential Offsite Contamination Sources: Past	P.17
10.	Conclusions & Recommendations	P.18
11.	Notes	P.20
12.	Annexes	P.21
	Annex 1 - Environmental Report	
	Annex 2 - Site Photographs	
	Annex 3 - References & Planning Procedure Guide	

1. Introduction

Following consultation and instruction from Mr P Wonnacott, Architect, on behalf of his clients, Mr & Mrs Risdon, ASI was commissioned to conduct a Phase 1 Contaminated Land Survey for the following site.

Site locality: Site at: Treraven, St Clether, Launceston, Cornwall. PL15 8PX.

End-use: Conversion of existing barns to residential housing.

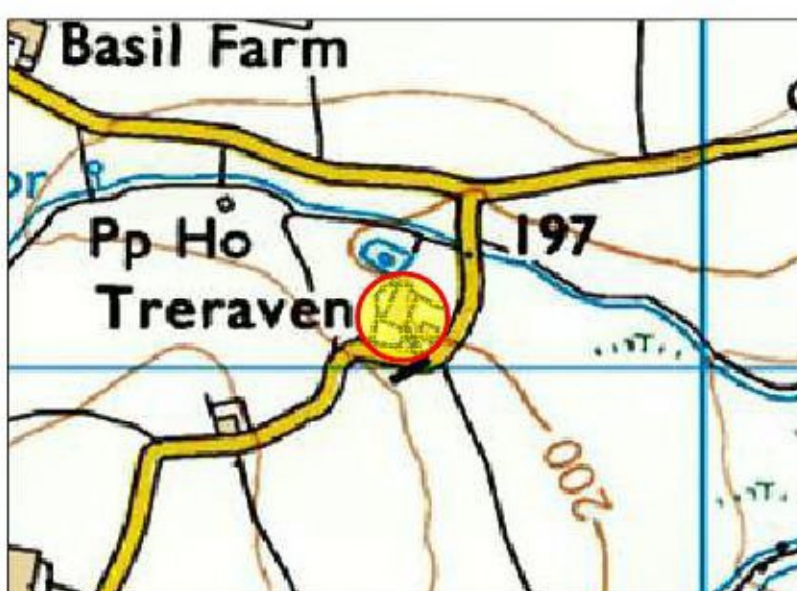
This report has been compiled utilising historical and current Ordnance Survey map information, non interpretive environmental report information, British Geological Survey maps and historical mine search reporting (where applicable). Additional data sources have been referenced in conjunction with an onsite inspection of the property and associated land.

2. Summary & Objectives

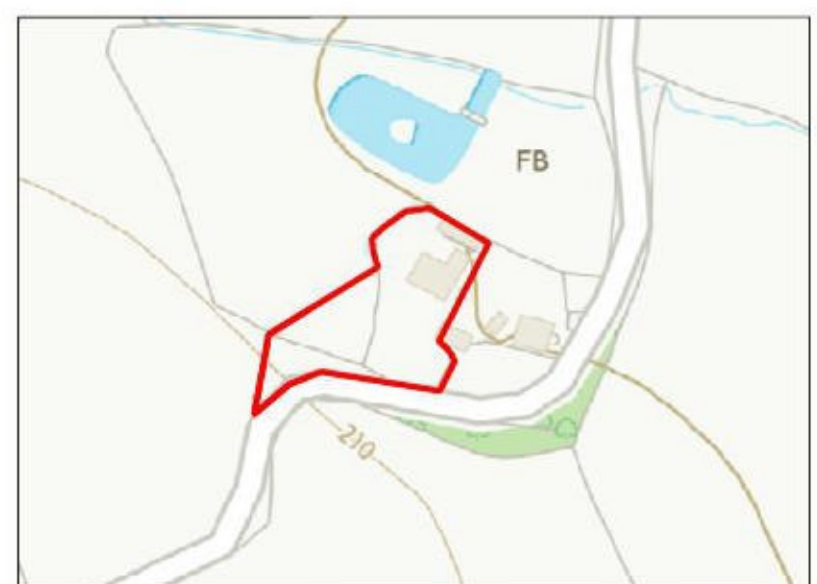
The objective of the Phase 1 Contaminated Land Survey is to identify potential contamination risks associated with the site locality and its current/historic utilisation. To comply with government legislation and Local Authorities planning requirements, a conceptual model needs to be defined for the site area to highlight potential pollution pathways. The conceptual model is a representation of the three-dimensional site characteristics and interaction with the surrounding environment, which identifies all possible receptors, potential contamination and contaminant pathways and determines the possible relationships between them (potential pollutant linkages), taking into account the current and proposed uses of the site.

This report has been compiled in accordance with the Contaminated Land Report 11 (CLR 11 - Model Procedures) and the British Standards Institute (BSI) 10175:2011 Investigation of Potentially Contaminated Sites (Code of Practice), and should be submitted to the relevant Council Authority for assessment.

Map & Street Plan Showing Location Of Site



OS Licence: 100045900 Crown copyright 2020



OS Licence: 100045900 Crown copyright 2020

3. Definition Of Contaminated Land




The legal definition of contaminated land (from Section 78A(2) of Part IIA of the Environmental Protection Act 1990) is:

'...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 the significant possibility of such harm being caused; or

(b) pollution of controlled waters is being, or is likely to be, caused...'

A key element of the Part IIA regime is the **Source-Pathway-Receptor** pollutant linkage concept. The meaning of each element is as follows:

SOURCE	PATHWAY	RECEPTOR
<p>The source of the contamination for example, industrial waste land with contaminated ground or water.</p> 	<p>The route that this contamination takes to reach the receptor, for instance via contaminated soil, water, vegetables.</p> 	<p>Receptors are eco-systems (plants, animals, organisms), property or controlled water bodies.</p> 

Without the clear identification of all three elements of the pollutant linkage, land cannot be identified as contaminated land under the regime. Contaminating substances may include:

- **metals and metallic compounds e.g. cadmium, arsenic, lead, nickel, chromium**
- **organic compounds e.g. oils, petrol, solvents**
- **gases e.g. methane, carbon dioxide, hydrogen sulphide**

Typical causes of land contamination include previous industrial or commercial usage, mining and infilling of land with waste. Land can also become contaminated due to its proximity to contaminated areas. However, contamination does not occur solely as a result of human activities and land can be contaminated as a result of its natural state. For example, elevated levels of arsenic in soil can result from the weathering of natural rocks and minerals.

4. Site Description & Information

4.1 Site Location, Population, Historic/Current Use & Setting

Location:

The proposed site lies within a rural location at OS Grid Ref: SX 1975/8404.

Closest Main Population Centre:

St Clether, Launceston.

Historic/Current Usage & Setting:

The historic Ordnance Survey (OS) map of 1883 shows existing barns lying within an isolated rural smallholding named Raven. A stream and a small pond is indicated within neighbouring land adjacent to the northeast, with a public road situated toward the eastern and southern boundaries of the site. The wider surrounding area consists of a mixture of agricultural fields and marshland.

1906, 1907: The site remains unchanged. The only differences noted within the vicinity are that the former pond is no longer marked and an area of marshland lying to the northwest has been incorporated into fields.

1962: With the exception of the neighbouring property now being referred to as Treraven and the pond now being indicated (reinstated between circa 1907/1962) there are no further changes to the site or the surrounding area.

1983-1982: This map edition shows no notable changes to the property other than the barns being marginally extended to the west. Across the wider surroundings, a single new neighbouring dwelling named Sunrise is illustrated approximately 121m to the southwest, the current pond is now outlined around 11m to the north of the property, while a water pumping house is marked about 147m to the northwest.

No further relevant OS mapping information is available for the site following 1982.

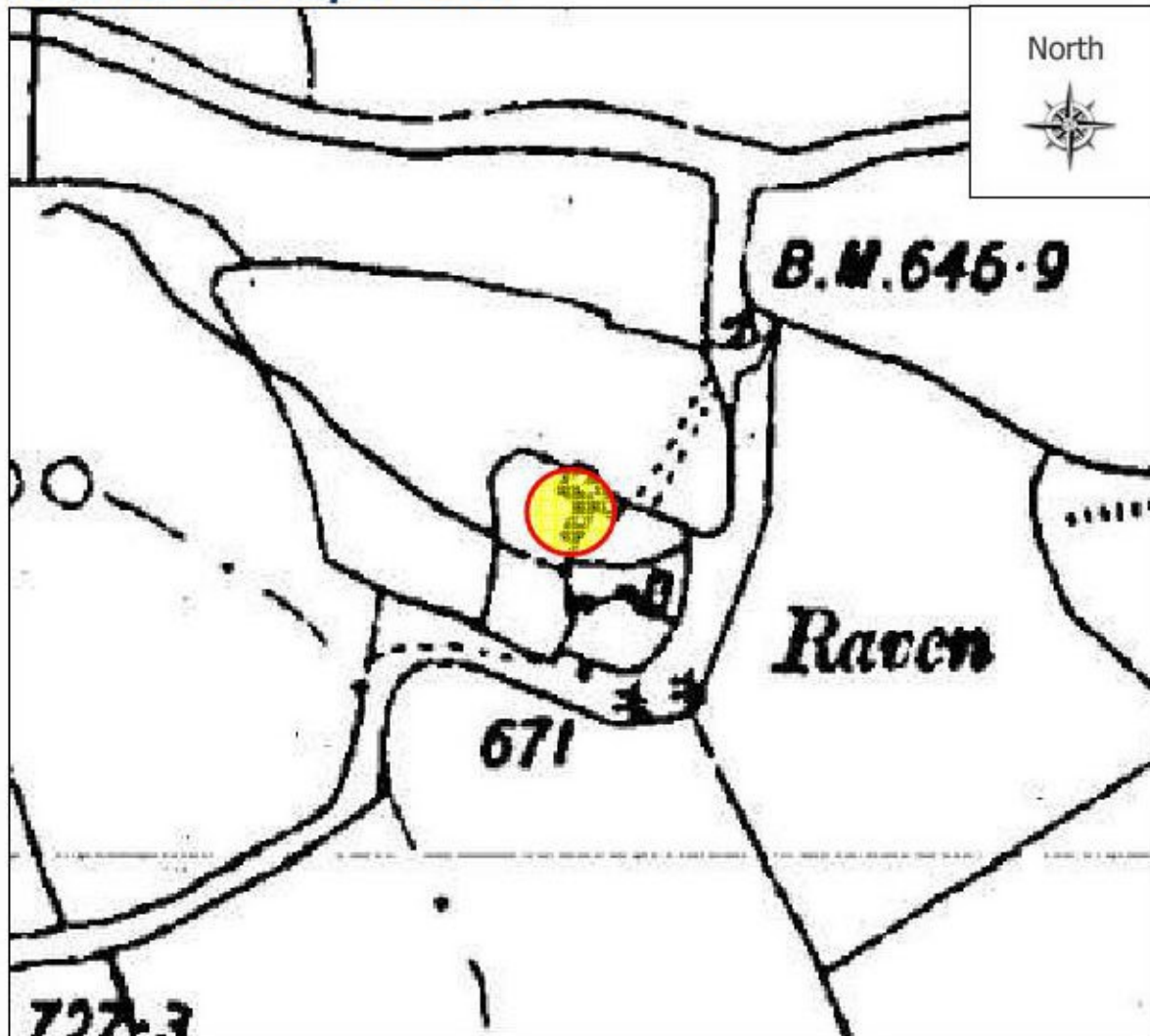
Satellite imagery from circa 2001 shows no additional relevant changes to the site or the surrounding area.

4.2 Additional Reporting Relating to Land Contamination

We are not aware of any prior site surveys or reporting produced for the application area.

5. Historic OS Mapping

Historical OS Map of 1907



The historical OS map of 1907 shows the site as comprising of existing barns situated within an isolated rural smallholding.

The surrounding area consists of open agricultural fields and areas of marshland.

No notable onsite or nearby features are identified that would impact the site.

Historic Ordnance Survey Map copyright 2020
Dated 1907. Survey scale: 1:10,560

Historical OS Map of 1982-1983



The historical OS map of 1982-1983 continues to show the existing barns upon the site.

Additional features which now appear around the locality are a pond to the north, a water pumping house marked to the northwest and a single residential dwelling (Sunrise) has been constructed to the southwest. The wider surrounding area remains rural in nature.

Additional OS map data referenced:
1883 1:2,500, 1:10,000 & 1:10,560 series to present day.

No further relevant OS mapping data is available for the site following circa 1982-1983.

Historic Ordnance Survey Map copyright 2020 Landmark Information Group
Dated 1982-1983. Survey scale: 1:10,000

6. Visual Site Inspection

A walk over survey of the site was conducted on the 10th September 2020, with the weather conditions at the time of the survey being dry. The site was observed from within and outside of its boundaries (where possible) to identify any areas of concern on or adjacent to the property. Any items of note were photographed and recorded.

6.1 Site Layout & Information

The application site consists of an irregularly shaped area of land estimated at 1405m². Access to the property can be made from an unnamed lane situated toward the southwest extent of the plot via a metal gateway, which in-turn leads into a meadow lying adjacent to the barns western elevation.

At the time of the walkover survey, the development area was recorded to comprise of two existing barns with tracts of associated meadow land. For the purpose of description we have named the barns as Barn 1 and 2 (see report section 6.2: Site Plan).

Barn 1:

This barn comprises of a small, detached, single storey stone constructed barn lying adjacent to the northern boundary of the plot. From visual appearance the barn would be considered to be in a moderate state of repair. The barn was noted to be roofed with slate tiles, with all internal flooring consisting of hardstanding.

Barn 1 was recorded to be divided into two main rooms, with a small shed/outbuilding located upon the western elevation. Currently the building is being utilised for the storage of general domestic items with no contamination features being observed.

Barn 2:

The larger of the site barns. This barn lies toward the northwest extent of the site and comprises of a two storey stone constructed building, with an attached lean-to located upon the western elevation and an attached garage/workshop and shed situated upon the southern elevation of the structure. Visually the barn would be considered to be in moderate to good state of repair. The barn was recorded to be roofed with slate tiles, with all internal flooring consisting of hardstanding.

Currently the main area of the barn is being utilised for the storage of general domestic items, with the garage/workshop lying generally empty, with the exception of four work benches, some shelving and stored wood. No items were recorded within the shed. Following the survey of the building, no contamination features were observed.

As stated, a lean-to lies to the rear of Barn 2. Upon inspection, the lean-to was noted to be used for the storage of an assortment of miscellaneous items, including wood, roofing panels, plastic drums and other items. No contamination features were recorded.



The remaining site area comprise of open grassed meadow land, intersected through the central section of the property by two overgrown Cornish hedges (broken approximately centrally) which extend toward the north and south.

The boundaries of the site comprise of a mixture of Cornish hedging and wooden fencing with occasional mature trees lying throughout.

From observation, the natural topography of the land was recorded to slope marginally from the south to the north. With the exception of the stream and pond, no other naturally occurring freshwater bodies were recorded within proximity to the property.

Following the inspection, no contamination sources such as unbunded fuel storage tanks, notable olfactory odours, fly tipped materials or similar features that could have a detrimental impact upon the proposed development were identified. Please refer to section 6.2: Site Plan and Annex 2: Site Photographs for further details.

6.2 Site Plan

<p>Existing site plan:</p> 	<p style="text-align: center;">North</p>  <p>SITE:</p> <p>Site at: Treraven St Clether Launceston Cornwall PL15 8PX</p> <p>Site Inspection Date:</p> <p>10th September 2020</p> <p>Site Inspected by:</p> <p>Mr J.R Williamson</p> <p>Position: Site Investigation Manager</p>
<p>Plan drawn and copyright to Peter Wonnacott, Architect</p>	
<p>Notes:</p> <ul style="list-style-type: none"> • Not to scale, for diagrammatic purposes only. • Application area outlined in red. • Site access indicated by the green arrow. • Total site perimeter estimated at 184m. • Total site area estimated at 1405m². 	

6.3 Surrounding Area

North	Field.
East	Current access and neighbouring residential property, Treraven.
South	Unnamed public road.
West	Proposed access and field.

7. Environmental Setting

<p>7.1 <u>Geology</u></p>	<p>The geological survey map (British Geological Survey 1:50 000 series, sheet 335/336 & BGS records) shows the site as lying within sedimentary rock comprising of Slate of the Tredorn Formation, formed during the Devonian Geological Period.</p> <p>Metalliferous lode zones (metalliferous minerals that in-fill a fissure or vein within a rock formation) that have the potential to introduce elevated heavy metals into the surrounding ground horizon are not indicated within, or in proximity to the site area.</p>
<p>7.2 <u>Mining Information</u></p>	<p>The site is not indicated to lie within historic metalliferous mining land comprising of spoil heaps or workings.</p>
<p>7.3 <u>Hydrogeology</u></p>	<p>Geological records indicate that the property is sited over rocks that can form minor aquifers of intermediate permeability. These can be fractured or potentially fractured rocks, which do not have a high permeability, or other formations of variable permeability including unconsolidated deposits. Although these aquifers will seldom produce large quantities of water for abstraction, they are important both for local supplies and in supplying base flow to rivers.</p> <p>Overlying soils classification: Soils of intermediate leaching potential. (Environment Agency: Policy & Practice for the Protection of Groundwater/ Groundwater Vulnerability of Cornwall & Devon/ 1:100,000).</p>

7.4 <u>Water Abstraction</u>	<p>BGS mapping records indicates that there are no water boreholes within 250m of the site.</p> <p>Risk from groundwater considered low.</p>
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8. Homecheck Professional Report Information - within 250m radius of site

See Annex 1: Environmental Report For Full Reference Details up to 250m

<p>8.1 <u>Surface Water Features</u> (reference page 3)</p>	<p>The environmental report indicates that there are surface water features within 250m of the site. (Stream-fed pond, north 11m)</p>	
<p>8.2 <u>Potential Pollution Sources</u> (reference pages 4 - 6)</p>	<p>Registered landfill sites BGS recorded landfill sites BGS recorded mineral sites Waste transfer Local Authority recorded landfill sites Environmental Permitting Regulations Registered waste treatment or disposal site Historical landfill site</p>	<p>None None None None None None None None</p>
<p>(reference pages 7 - 9)</p>	<p>Integrated pollution control (IPC) regulations Local Authority Pollution Prevention and Controls Control of major accident hazards Storage of hazardous substances Explosive sites Radioactive Substances Register</p>	<p>None None None None None None</p>
<p>8.3 <u>Known Pollution Incidents</u> (reference pages 7 - 9)</p>	<p>The environmental report has indicated that there are no known pollution incidents located within 250m of the site.</p>	
<p>8.4 <u>Discharges to Water</u> (reference pages 7 & 8)</p>	<p>There are no identified discharge to water consents located within 250 metres of the site.</p>	
<p>8.5 <u>Contaminated Land Register</u> (reference page 5)</p>	<p>Contaminated land register entries & notices Contraventions</p>	<p>None None</p>

<p>8.6 <u>Current Industrial Land Use</u></p> <p>(reference pages 10 - 11)</p> <p>PCA Potentially Contaminated Area Ref No.</p> <p>There are no identified 'current industrial land uses' within 250m of the property.</p>	<p>None identified</p>
<p>Commercial/industrial land uses within 100m of the site have been considered within the Conceptual Site Model, located within section 9 of this report (area of highest risk). Should a land use be recorded that lies outside of 100m and has been identified to present a contamination risk to the property, such activities will be delineated within the CSM where appropriate.</p>	

<p>8.7 <u>Past Industrial Land Use</u></p> <p>(reference pages 10 - 11)</p> <p>PCA Potentially Contaminated Area Ref No.</p> <p>There are no identified 'past industrial land uses' within 250m of the property.</p>	<p>None identified</p>
<p>(reference pages 10 - 11)</p> <p>PIL Potentially Infilled Land Ref No.</p> <p>The Environmental Report has indicated that there are no recorded PIL areas within 250m of the property.</p>	<p>None identified</p>
<p>Historic land uses within 100m of the site have been considered within the Conceptual Site Model, located within section 9 of this report (area of highest risk). Should a land use be recorded that lies outside of 100m and has been identified to present a contamination risk to the property, such activities will be delineated within the CSM where appropriate.</p>	

<p>8.8 <u>Flooding</u> (reference pages 12 - 14)</p>	<p>The site is not indicated to be affected by any type of flooding within 25m of the site area.</p> <p>Further information relating to flood risk zones can be located on the Environment Agency web site.</p>
<p>8.9 <u>Radon Affected Zones</u> (reference page 15)</p>	<p>The site lies within a potential radon affected area, it is indicated that over 30% of homes are above the action level.</p> <p>Radon is a natural gas found in soil and rocks. It has no colour, taste or smell. Levels vary from country to country, region to region and from house to house in the same street. In open spaces, when radon mixes with air, it is quickly diluted into the atmosphere. When air containing radon gas rises from the soil and rocks beneath your property it is possible it may migrate internally, primarily through cracks in floors, walls and gaps around service pipes.</p> <p>Generally a membrane of 300 micrometre (1200 gauge) polyethylene sheet (correctly installed) will be adequate to stop radon migration. Possible prevention measures may require the installation of an active radon ventilation system. We would recommend that advice is obtained from the Local Authorities regarding monitoring & protection.</p>
<p>8.10 <u>Ground Stability Findings</u> (reference page 16)</p>	<p>The British Geological Survey has identified the site as having a 'very low' potential for natural ground instability within 50 metres.</p>

9. Preliminary Environmental Risk Assessment/Conceptual Model: Showing Potential 'Source-Pathway-Receptor Linkage' Modes

POTENTIAL SOURCE	
See tables below - Potential Contamination Source.	
POTENTIAL PATHWAY	
Inhalation of dust & soil particles, inhalation of vapours, direct ingestion of soil & dust particles, dermal absorption (soil exposure), private water abstraction, ground water, aquifers, consumption of fruit & vegetables, radon gas (ground source migration pathways).	
POTENTIAL RECEPTOR	
Humans, eco-systems (plants, animals, organisms), property or controlled water bodies.	

9.1 Potential 'Onsite' Contamination Sources: Current & Past

See section 7.1 & 8.9 - Geology and Radon Affected Zones for additional information.

CURRENT/PAST CONTAMINATION SOURCES : ONSITE	(1,2,3) number of entries/features identified HC - Homecheck Ref	0m (onsite)
POTENTIAL CONTAMINATION SOURCE	POTENTIAL CONTAMINANTS & PATHWAY LINKAGE	POTENTIAL RISK TO RECEPTORS
Local geology	Naturally occurring heavy metal contaminants: potential migration via soil & water. Probability: unlikely due to site lying outside of mineralised zone (Ref: BGS 1:50 000 series, sheet 335/336 & BGS records).	Low
Potential radon affected area, HC Ref: section 3	Radon gas migration within buildings: potential migration via air. Probability: over 30% of homes above action level, full radon protection measures are recommended.	High

9.2 Potential 'Offsite' Contamination Sources: Current

See Section 8.6 - Current Industrial Land Usage for additional information.

CURRENT CONTAMINATION SOURCES : OFFSITE		(1,2,3) number of entries/features identified HC - Homecheck Ref	Increasing distance from site
POTENTIAL CONTAMINATION SOURCE	POTENTIAL CONTAMINANTS & PATHWAY LINKAGE		POTENTIAL RISK TO RECEPTORS
None identified	None identified		None identified
Commercial/industrial activities lying beyond 100m distance (where identified) have been considered to be of negligible risk and are not included within the conceptual site model.			

9.3 Potential 'Offsite' Contamination Sources: Past

See Section 8.7 - Past Industrial Land Usage for additional information.

PAST CONTAMINATION SOURCES : OFFSITE		(1,2,3) number of entries/features identified HC - Homecheck Ref	Increasing distance from site
POTENTIAL CONTAMINATION SOURCE	POTENTIAL CONTAMINANTS & PATHWAY LINKAGE		POTENTIAL RISK TO RECEPTORS
None identified	None identified		None identified
Historic activities lying beyond 100m distance (where identified) have been considered to be of negligible risk and are not included within the conceptual site model.			

10. Conclusions & Recommendations

Having conducted an on-site inspection and research of the available environmental and historic data relating to land contamination at the site locality, we can conclude that the potential contamination risks to end-users and local eco-systems under the proposed planning application would be considered low.

Historic records dating from 1883 until present times have shown no significant changes occurring at the application area, with the barns and associated land being as described within section 6.1 of this report.

Following inspection, no notable contamination sources were observed, or evidence of contaminants that would initiate a secondary phase of investigation. In addition no external contamination sources have been identified that would impact the proposed development.

For full determinations relating to possible source contaminants within and in proximity to the site and levels of assigned risk, see section 9: Preliminary Environmental Risk Assessment/Conceptual Model Showing Potential Source-Pathway-Receptor Linkage Modes. Photographs can be referenced within Annex 2 of this report.

Please note that we have the following recommendations to make for the sites continued development:

Radon Gas

We would recommend that due to the site lying within a potential radon affected zone where over 30% of homes are above the action level, that full radon gas protection be incorporated within any new building designs. Such measures would generally require the correct installation of a passive radon barrier such as 'Visqueen Ultimate RadonBlok600', Cordek Radon Membrane or similar approved product with adequate under floor ventilation to disperse possible radon gas migration.

Should it not be possible to install standard radon protection during the conversion of the existing barns, mitigation methods could employ the use of a fan based ventilation system such as the Monsoon UT150/SC Radon Mitigation Fan, or similar approved product to remove radon gas. Following installation, all works should be verified by the L.A Building Control Department or suitably qualified individual.

Further advice on radon gas prevention measures can be found at:

<https://www.ukradon.org/information/reducelevels>.

Excess Soil Disposal

Due to government legislation on landfill waste, should excess soil be generated through the construction process, such material must be removed by a licensed haulier and disposed of at an accredited waste disposal facility. All records relating to haulage and disposal destinations must be kept for future reference and should include the following information: Haulage company details, date(s) of transfer/quantity of material and receiving landfill address.

Unexpected Contamination

Should unrecorded contamination be encountered during the properties continued development phase, in the form of buried tanks, additional buried waste material, olfactory odours or obvious pollutants, we would advise that all works must stop within the suspect area and contact with ourselves and the Local Authorities be established before work is initiated within the area of concern.

Following the above recommendations, we have no further comments to make within the scope of this report.

11. Notes

1. The conclusions and recommendations sections of this Phase 1 Contaminated Land Survey relates to the form and extent of development outlined herein for this specific property only and they should not be taken as suitable for any other form or extent of development within the boundaries of this property without further consultation with Approved Site Investigations Ltd.
2. This report only relates to the area defined in the attached environmental report.
3. The report should not be used in any way in connection with adjacent properties.
4. In respect of the archival mining report (if supplied) and the environmental report (Landmark/Groundsure data), the information is subject to the limitations and terms as defined in those reports. The supplier cannot guarantee the accuracy or completeness of the data provided, nor does the supplier guarantee to identify all the factors that may be relevant.
5. Approved Site Investigations Ltd cannot be held liable for contamination sources that may be introduced to the site, either within, or outside of the site boundaries subsequent to the writing of this contaminated land survey report.
6. This report is confidential to the named client(s) and we have no liability toward any person not party to commissioning this report.
7. This report may not be reproduced or distributed to third parties without our prior permission other than to directly facilitate the sale or development of the property concerned.

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



Approved Site Investigations Ltd



Verified by:

Mr. J.R Williamson
(Managing Director)
HND Science (Industrial Mining Geology), Dip CSM

12. Annexes

Annex 1 - Environmental Report

Annex 2 - Site Photographs

Annex 3 - References & Planning Procedure Guide

Annex 1 - Environmental Report

Homecheck Environmental



Contamination Risk **PASSED**

Professional Opinion

Argyll Environmental Consultants have passed this report in accordance with the definition of contaminated land within Part 2A of the Environmental Protection Act 1990. Please refer to the Professional Opinion page and Section 1 for further information.



Flood Risk: **IDENTIFIED**

Refer to Section 2 for further information

Conveyancer Guidance

We consider there to be a risk of flooding within 50m of the search centre. Please refer to Section 2 for further information.



Radon: **IDENTIFIED**

Refer to Section 3 for further information



Ground Stability: None Identified

Refer to Section 4 for further information



Other Influential Factors:

Refer to Section 5 for further information

Environmental Constraints: None Identified

See Section 5a

Report issued for the property at
Site at, Treraven
Treraven Road
St Clether
LAUNCESTON
PL15 8PX

Report Reference
255956439_1_1

National Grid Reference
219750 84050

Customer Reference
A1782_HCP

Report Date
7 September 2020

Contact Details

If you require assistance please contact your Search Provider or phone Customer Services on 0844 844 9966 or email helpdesk@homecheck.co.uk

Landmark Contribution

By purchasing this report, the recipient may be eligible for Remediation Contribution of up to £100,000 if served with a Remediation Notice by the Local Authority. Such a notice may require the homeowner to pay for all, or contribute to, the remediation of the property. For more information see Landmark's Terms and Conditions.



Professional Opinion

Contamination Risk

PASSED

In the professional opinion of Argyll Environmental Consultants, the level of contamination risk associated with the information disclosed in the Homecheck Professional report dated 7th September 2020 and reference 255956439_1_1, A1782_HCP for

**Site at, Treraven
Treraven Road
St Clether
LAUNCESTON
PL15 8PX**

1) is unlikely that the property would be designated "contaminated land" within the meaning of Part 2A of the Environmental Protection Act 1990.

2) is unlikely to have an adverse effect on the security of the property for normal lending purposes.

The professional opinion refers to Section 1 of this report and should always be read in conjunction with the full text of that report. No physical site inspection or survey has been carried out or is proposed.

Approved by

Argyll Environmental Ltd



Contents and Summary of Findings



Site Location



Section 1: Contamination Risk Findings

Contamination Risk	0-25m	25-250m	250-500m	See Section
Designated Contaminated Land	No	No	No	1a
Landfill and Waste	No	No	No	1b
Potentially Contaminative Activities	No	No	No	1c
Known Pollution Incidents	No	No	No	1d
Other Potential Contaminative Land Uses	No	No	n/a	1e



Section 2: Flood Findings

Flood	0-25m	25-250m	See Section
River Flooding	No	No	2a
Coastal Flooding	No	No	2b
Surface Water Flooding	No	Yes	2c



Section 3: Radon Findings

Radon	Result	See Section
Radon Affected Property	Yes	3



Section 4: Ground Stability Findings

Ground Stability	Result	See Section
Man-Made Factors	No	4a
Natural Factors	No	4b



Section 5: Other Influential Factors

Other Influential Factors	Result	See Section
Environmental Constraints	No	5a



Site Location



Aerial Photograph

The photograph below shows the location of the site to which this report relates.



Homecheck® Report

Site at, Treraven
Treraven Road
St Clether
LAUNCESTON, PL15 8PX

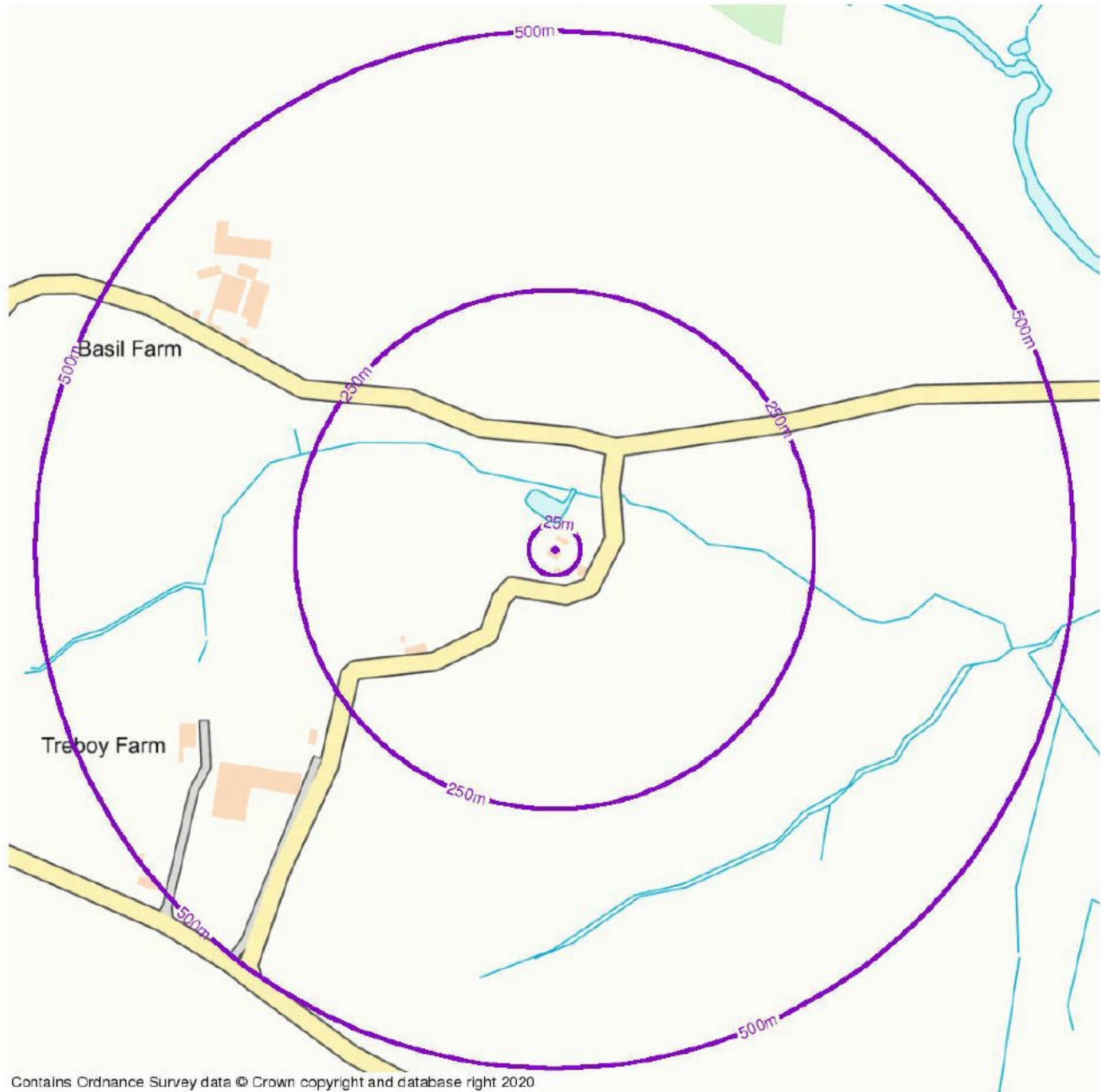
Report Reference 255956439_1_1

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Date 7 September 2020
Page 2 of 21



Location Map

The map below shows the location of the site to which this report relates.



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Homecheck® Report

Site at, Treraven
Treraven Road
St Clether
LAUNCESTON, PL15 8PX

Report Reference 255956439_1_1

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Date 7 September 2020
Page 3 of 21



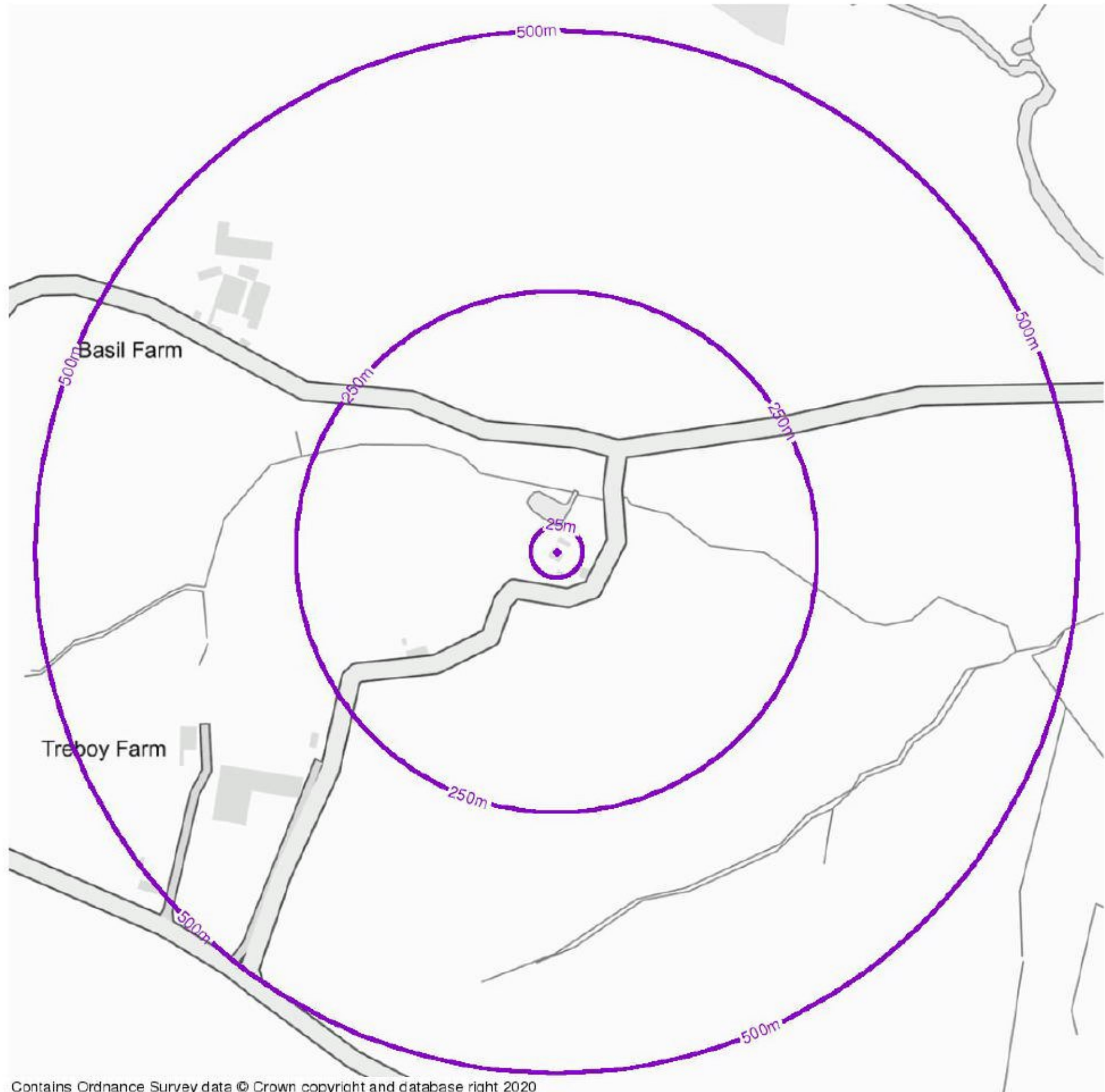
Section 1: Contamination Risk Findings

The whole of section 1 deals with potential sources of contamination and provides the information by which this report has either been passed or referred for assessment.



Section 1a and 1b: Information Map

The map detailed below shows the location of the Designated Contaminated Land and Landfill and Waste features highlighted within sections 1a and 1b of this report.



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Section 1a

- Contaminated Land Registry Entries and Notices

Section 1b

- Registered Landfill Sites
- Registered Landfills (Potential Buffer)
- BGS Recorded Landfill Sites
- Local Authority Recorded Landfill Sites
- Historical Landfill Sites
- Permitted Waste Sites - Authorised Landfill Site Boundaries
- Environmental Permitting Regulations - Waste
- Integrated Pollution Control Registered Waste Sites
- Registered Waste Treatment or Disposal Sites
- Registered Waste Transfer Sites

Homecheck® Report

Site at, Treraven
Treraven Road
St Clether
LAUNCESTON, PL15 8PX

Report Reference 255956439_1_1

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Date 7 September 2020
Page 4 of 21

Section 1a: Designated Contaminated Land

The data within this section tells you whether your property or surrounding area has been identified by the Local Authority as "Contaminated Land" under the Environmental Protection Act 1990. Should there be an indication of contamination, it is not necessarily a cause for concern. Your report will be assessed by our professional environmental consultants who will advise you what, if any, considerations need to be made should you proceed with the property purchase.

Enquiry	Result
Has any contaminated land been identified within 500m of the property?	No

Map ID	Reference	Location	Details	Distance	Contact
--------	-----------	----------	---------	----------	---------

Contaminated Land Register Entries and Notices

No factors identified for this property

Section 1b: Landfill and Waste

The information in this section is telling you about active and historic landfill and waste sites within 500 metres of the property. Having a landfill or waste site near your property does not necessarily mean that you or the property will be affected. However, it is something you need to be aware of, because landfill and waste can have a detrimental effect on the surrounding environment, house value and health. A closed landfill/waste site should be given equal consideration to an active site, because of landfill by-products. For instance, landfill with lots of organic material can continue to produce odours and gas for many years.

Enquiry	Result
Have any landfill and waste sites been identified within 500m of the property?	No

Map ID	Reference	Location	Details	Distance	Contact
--------	-----------	----------	---------	----------	---------

Registered Landfill Sites

No factors identified for this property

BGS Recorded Landfill Sites

No factors identified for this property

Local Authority Recorded Landfill Sites

No factors identified for this property

Local Authority Recorded Landfill Coverage

The following list details the Local Authorities that cover the search area who have made landfill data available:

North Cornwall District Council	- Has no landfill data to supply	2
Cornwall County Council	- Had landfill data but passed it to the relevant environment agency	3

For further information regarding the availability of Local Authority Recorded Landfill data you may wish to forward enquiries to one or more of the contacts indicated above.

Historical Landfill Sites

No factors identified for this property

Permitted Waste Sites - Authorised Landfill Site Boundaries

No factors identified for this property

Environmental Permitting Regulations - Waste

No factors identified for this property

Integrated Pollution Control Registered Waste Sites

No factors identified for this property

Registered Waste Treatment or Disposal Sites

No factors identified for this property

Registered Waste Transfer Sites

No factors identified for this property



Section 1c and 1d: Information Map

The map detailed below shows the location of the Potentially Contaminative Activities and Known Pollution Incidents features highlighted within sections 1c and 1d of this report.



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Section 1c

- Local Authority Pollution Prevention and Controls
- Local Authority Integrated Pollution Prevention and Control
- Integrated Pollution Controls
- Environmental Permitting Regulations - Industry
- Consent to Discharge to Controlled Waters

- Radioactive Substances Register
- Planning Hazardous Substance Consents
- Control of Major Accident Hazards Sites (COMAH)
- Notification of Installations Handling Hazardous Substances (NIHHS)
- Explosive Sites

Section 1d

- Local Authority Pollution Prevention and Control Enforcements
- Enforcement and Prohibition Notices
- Planning Hazardous Substance Enforcements
- Prosecutions Relating to Authorised Processes
- Environmental Pollution Incidents
- Prosecutions Relating to Controlled Waters

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Date 7 September 2020
Page 7 of 21

Section 1c: Potentially Contaminative Activities

This section describes current and historic licensed activities within 500 metres of the property, which have the potential to cause contamination or have an impact on the environment. The licensed activities could range from pollution to air, land or water; storage or disposal of radioactive substances; or storage of hazardous or explosive materials. Licences may no longer be active, but the nature of the past activity means it could still have an impact.

Enquiry	Result
Have any potentially contaminative activities been identified within 500m of the property?	No

Map ID	Reference	Location	Details	Distance	Contact
--------	-----------	----------	---------	----------	---------

Local Authority Pollution Prevention and Controls

No factors identified for this property

Local Authority Integrated Pollution Prevention And Control

No factors identified for this property

Integrated Pollution Controls

No factors identified for this property

Environmental Permitting Regulations - Industry

No factors identified for this property

Consent to Discharge to Controlled Waters

No factors identified for this property

Radioactive Substances Register

No factors identified for this property

Planning Hazardous Substance Consents

No factors identified for this property

Control of Major Accident Hazards Sites (COMAH)

No factors identified for this property

Notification of Installations Handling Hazardous Substances (NIHHS)

No factors identified for this property

Explosive Sites

No factors identified for this property

Section 1d: Known Pollution Incidents

The data within this section describes unpermitted activity in your area (e.g. polluting incidents, or exceedance of permitted allowance) where the activity led to a prosecution or enforcement of regulations. Whilst all of these records are historic, the nature of the incident may have long term effects.

Enquiry	Result
Have any known pollution incidents been identified within 500m of the property?	No

Local Authority Pollution Prevention and Control Enforcements

No factors identified for this property

Enforcement and Prohibition Notices

No factors identified for this property

Planning Hazardous Substance Enforcements

No factors identified for this property

Prosecutions Relating to Authorised Processes

No factors identified for this property

Environmental Pollution Incidents

No factors identified for this property

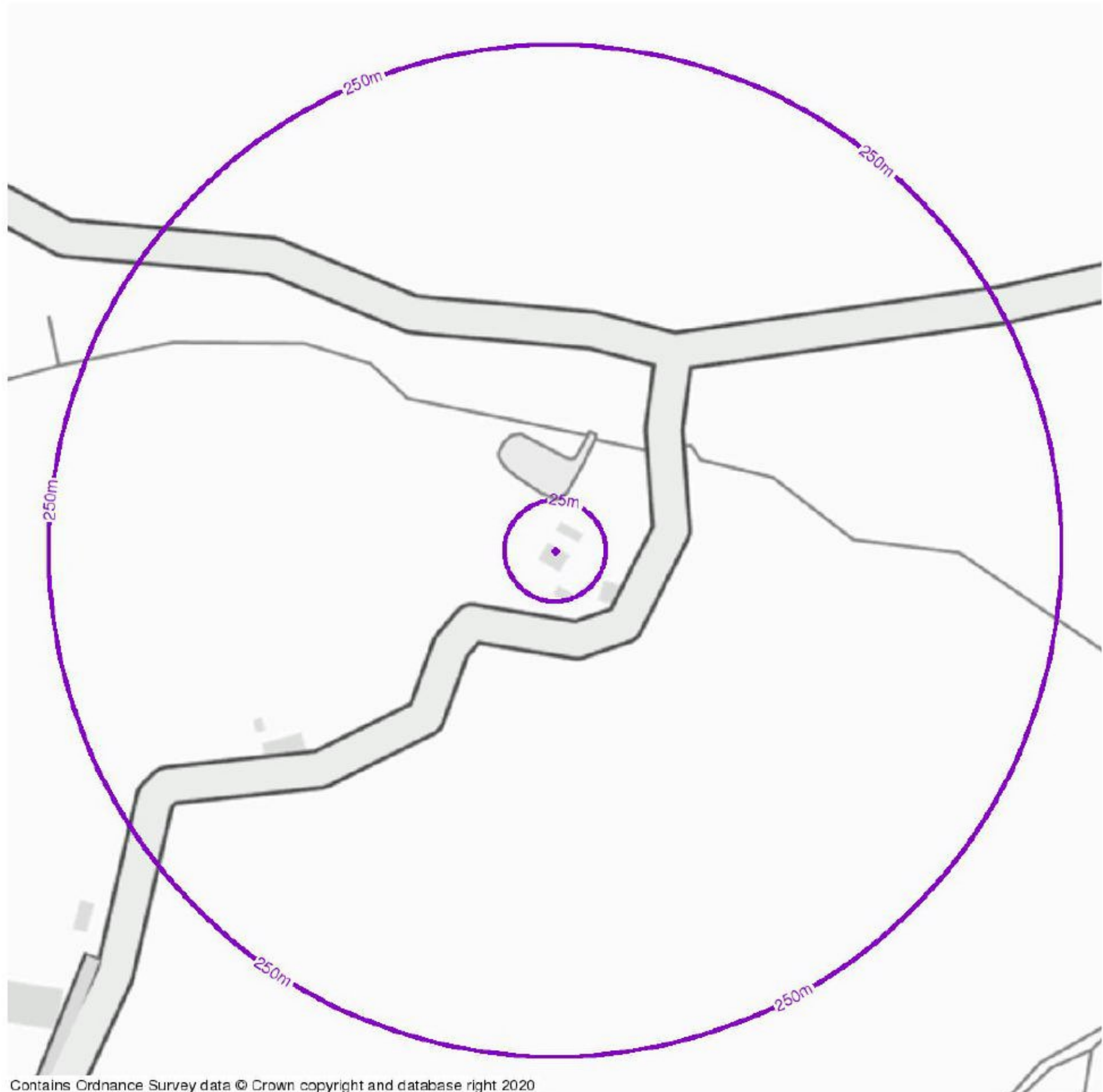
Prosecutions Relating to Controlled Waters

No factors identified for this property



Section 1e: Information Map

The map detailed below shows the location of the Other Potential Contaminative Land Uses features highlighted within section 1e of this report.



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- | | |
|--|---|
| ✘ Fuel Station Entries | ☑ Potentially Infilled Land (Non-Water) |
| ★ Contemporary Trade Directories | ☑ Potentially Infilled Land (Water) |
| ✚ Former Marshes | ☑ Potentially Contaminative Industrial Uses (Past Land Use) |
| ▼ Historical Tanks and Energy Facilities | |

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Page 10 of 21

Section 1e: Other Potential Contaminative Land Uses

This section describes either current or historic activity, which could be considered to be contaminative. This section makes no statement about whether the activity requires a licence; however our environmental experts deem that the activities described in this section could lead to potential contamination. The information is taken from a variety of sources including trade directories, Landmark's extensive historical map collection and analysis of historic activity. Records are highlighted due to the potential for contamination to exist.

Enquiry	Result
Have any other potential sources of contamination been identified within 250m of the property?	No

Map ID	Reference	Location	Details	Distance	Contact
--------	-----------	----------	---------	----------	---------

Fuel Station Entries

No factors identified for this property

Contemporary Trade Directory Entries

No factors identified for this property

Former Marshes

No factors identified for this property

Potentially Infilled Land (Non-Water)

No factors identified for this property

Potentially Infilled Land (Water)

No factors identified for this property

Potentially Contaminative Industrial Uses (Past Land Use)

No factors identified for this property

Historical Tanks And Energy Facilities

No factors identified for this property



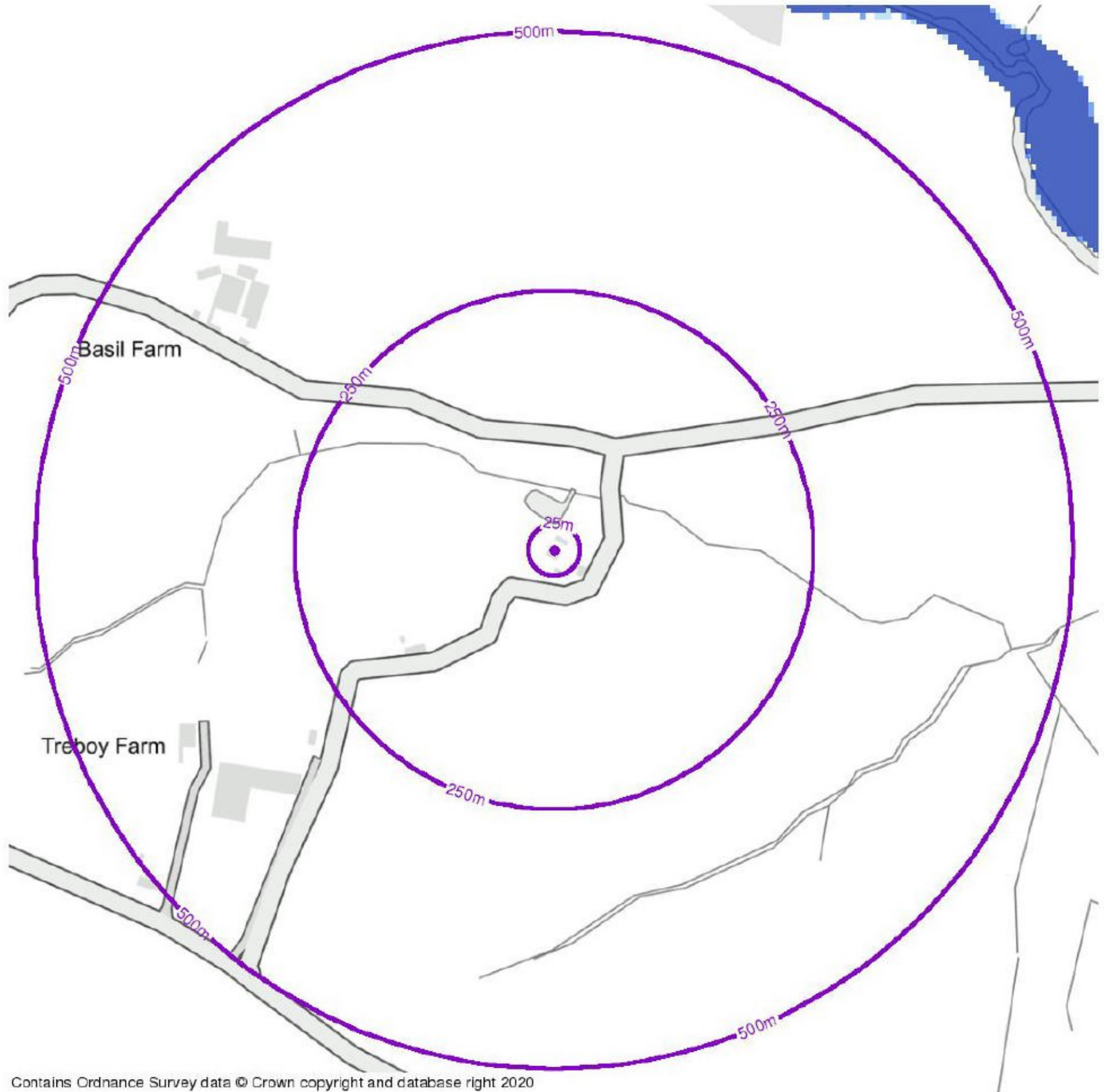
Section 2: Flood Findings

The whole of this section deals with potential sources of flooding that may impact the property.



Section 2a and 2b: River and Coastal Flood Map

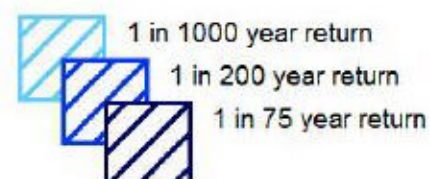
The map detailed below shows the location of potential river and coastal flood risk. The potential risk has been modelled on the basis of an event occurring on average every 75, 200 or 1000 years.



River Flooding



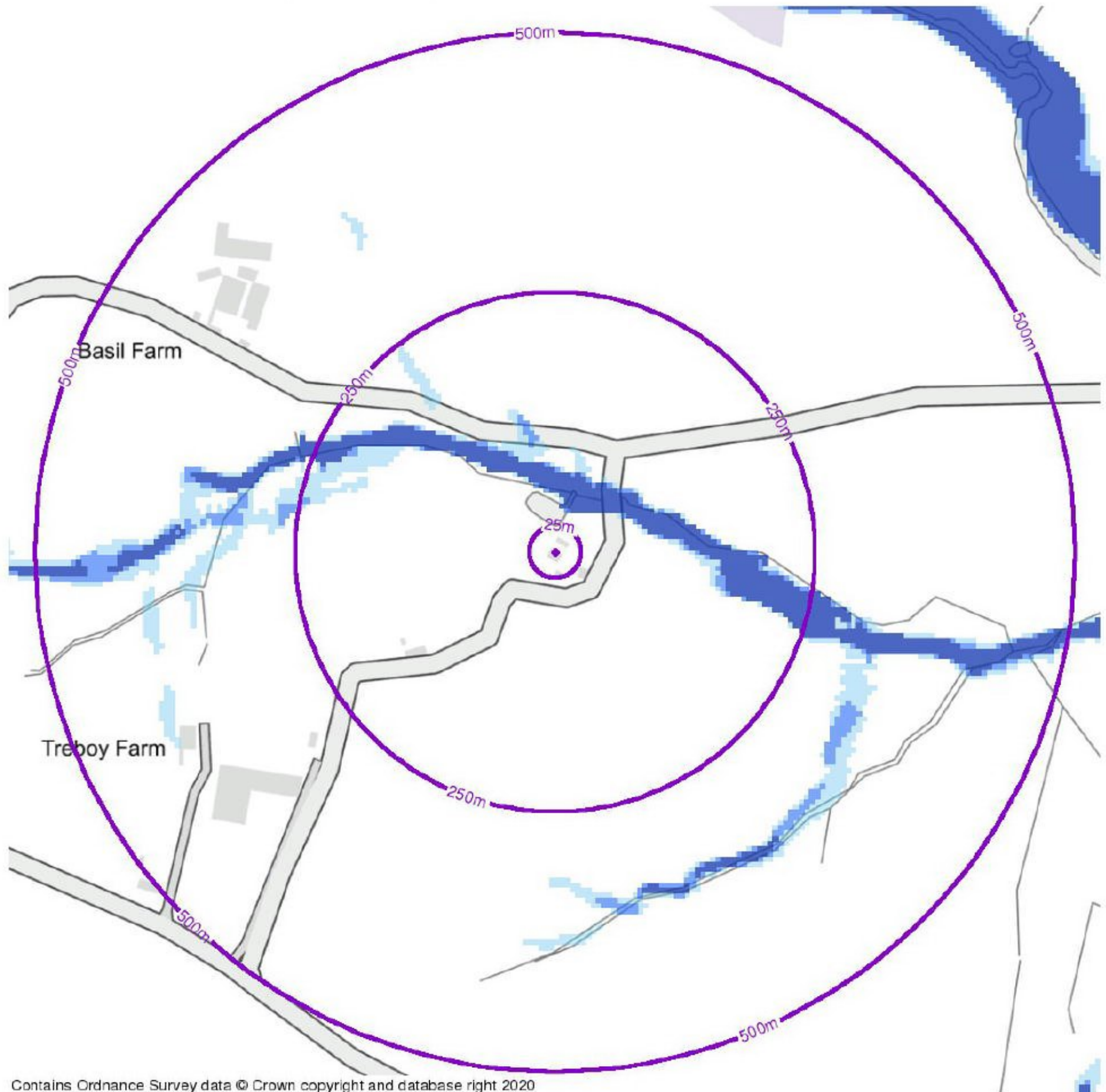
Coastal Flooding





Section 2c: Surface Water Flood Map

The map detailed below shows the location of potential surface water flood risk. The potential risk has been modelled on the basis of an event occurring on average every 75, 200 or 1000 years.



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Surface Water Flooding



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Date 7 September 2020
Page 13 of 21

Section 2a: River Flooding

River flooding mainly happens when the river catchment (that is the area of land that feeds water into the river and the streams that flow into the main river) receives greater than usual amounts of water (for example through rainfall or melting of snow). The amount of runoff depends on the soil type, catchment steepness, drainage characteristics, agriculture and urbanisation as well as the saturation of the catchment. The extra water causes the level of the water in the river to rise above its banks or retaining structures.

Enquiry	Result	Contact
Is there a potential risk of river flooding within 250m of the property?	No	-

Section 2b: Coastal Flooding

Coastal flooding is the inundation of land areas along the coast caused by sea water rising above normal tidal conditions. Coastal flooding can arise from a combination of high tides, wind induced tidal surge, storm surge created by low pressure and wave action.

Enquiry	Result	Contact
Is there a potential risk of coastal flooding within 250m of the property?	No	-

Section 2c: Surface Water Flooding

Surface water flooding results from rainfall running over ground before entering a watercourse or sewer. It is usually associated with high intensity rainfall events (typically greater than 30mm per hour) but can also occur with lower intensity rainfall or melting snow where the ground is already saturated, frozen, developed (for example in an urban setting) or otherwise has low permeability.

Enquiry	Result	Contact
Is there a potential risk of surface water flooding within 250m of the property?	Yes	-

Next Steps

In order to gain more detailed information on the type and likelihood of your property being impacted by a flood event, and the potential impact on insurance, we recommend that you purchase our Landmark Flood Report.

If you would like more information please contact your Search Provider or our Customer Services Team on **0844 844 9966** or email **helpdesk@homecheck.co.uk**.

Flood data provided by JBA Risk Management Limited. © Copyright JBA Risk Management Limited 2008-2020



Section 3: Radon Findings

The information within this section tells you whether the property is located in a radon affected area. Radon is a radioactive gas which occurs naturally in rocks and soils. You cannot see, hear, feel or taste it. Exposure to particularly high levels of radon may increase the risk of developing lung cancer, and is therefore something you need to be aware of or should consider.

Enquiry	Result	Contact
Is the property in a radon affected area?	The property is in a radon affected area, as over 30% of homes are above the action level	1
What level of radon protection measures for new dwellings or extensions to existing ones is required for the property?	Full radon protective measures are necessary in the construction of new dwellings or extensions	1

Next Steps

The level of radon concentration can only be established by having the building tested. Action should be taken if the indoor radon level is measured and found to be above 200 becquerel's per cubic meter. If you would like any further information we recommend you contact Public Health England whose details can be found in the 'Useful Contacts' section of this report.

Further Action

Airtech Environmental Systems can advise on radon testing kits, which cost £39.36 including VAT and can run from 7 days to 3 months. They also have a team of surveyors on hand to provide recommendations and advice for any properties above the target level of 100 becquerel's per cubic meter or action level of 200 becquerel's per cubic meter. Airtech Environmental Systems can provide a report, recommendations and a quotation for any recommended works. For more detailed information please call their free-phone number 0800 378017.



Section 4: Ground Stability Findings

This section provides summary information on factors that could affect the ground stability of the property. It considers both man-made factors (e.g. mining activity) and natural hazards (e.g. geological stability).

Section 4a: Man-Made Factors

Enquiry	Result	Contact
Is the property within 25m of a Coal Mining Affected Area?	No	-

Section 4b: Natural Factors

Enquiry	Result	Contact
What is the potential for natural ground instability in the area within 50m of the property?	Very Low	-

Comment: The British Geological Survey has assessed the area of search as having very low potential for natural ground instability. This does not necessarily mean there is cause for concern in terms of the property's stability. Active subsidence will be dependent on local conditions, such as the proximity of trees or areas where trees have been removed, which require an inspection of the site to identify the nature of the ground on which the property is built. A house buyers survey is advised to look for signs of property damage that may indicate poor natural ground conditions.



Section 5: Other Influential Factors

The following section provides information on a variety of factors which may have an influence on the property or surrounding area.



Section 5a: Environmental Constraints

Enquiry	Result
Is the property within 250m of an area likely to be impacted by Environmental Constraints?	No

Map ID	Reference	Location	Details	Distance	Contact
Areas of Outstanding Natural Beauty					
No factors identified for this property					
Local Nature Reserves					
No factors identified for this property					
National Nature Reserves					
No factors identified for this property					
National Parks					
No factors identified for this property					
Ramsar Sites					
No factors identified for this property					
Sites of Special Scientific Interest					
No factors identified for this property					
Special Areas of Conservation					
No factors identified for this property					
Special Protection Areas					
No factors identified for this property					

Useful Contacts

Contact 1 - Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards

Chilton
Didcot
Oxfordshire
OX11 0RQ

Tel: 01235 822622
Fax: 01235 833891

radon@phe.gov.uk
www.ukradon.org

Contact 2 - North Cornwall District Council (now part of Cornwall Council)

County Hall
Treyew Road
Truro
Cornwall
TR1 3AY

Tel: 0300 1234 100

enquiries@cornwall.gov.uk
www.cornwall.gov.uk

Contact 3 - Cornwall County Council (now part of Cornwall Council)

County Hall
Treyew Road
Truro
Cornwall
TR1 3AY

Tel: 0300 1234 100

enquiries@cornwall.gov.uk
www.cornwall.gov.uk

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www.landmarkinfo.co.uk

The Landmark website contains links to many of our data suppliers which may prove useful.

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

Landmark works in association with:



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Useful Information

The following explanatory notes may be of assistance to users of the Homecheck Professional report. Practitioners are reminded that full guidance notes are contained in the Practitioners Guide.

Professional Opinion

A Professional Opinion in relation to Part 2A of the Environmental Protection Act 1990 is provided by Argyll Environmental Consultants. In many cases the report will be PASSED without referral. However, in some cases, entries that may be of concern are revealed by the search, in which case the report is REFERRED free of charge for more detailed consideration, although this will not include a physical site inspection. After such referral the report may be PASSED or suggestions made of some FURTHER ACTION that could be taken, in the form of questions to ask of the appropriate authorities. When responses to these questions are received it is the responsibility of the client and their professional advisors to decide if they are happy to proceed.

Flood Risk

A limited flood risk screening exercise is included in this report designed to satisfy basic flood risk screening due diligence including consideration of river, coastal and surface water flooding. Where a potential flood risk is "Identified" you may wish to consider commissioning a more detailed flood risk screening report. When there is "None Identified" this does not indicate that there is not risk of flooding at the property, but that the risk of flooding from the sources screened (river, coastal and surface water) within the vicinity of the property is such that the risk may not be considered significant.

Location Map

The Ordnance Survey location map may show features which are not necessarily otherwise included in this report. You are advised to supplement the information contained in the report with the descriptive text shown on the map.

Positional Accuracy

We locate data in a variety of ways according to information provided to us and subsequent in-house research. If data is provided as a point on the ground, we provide a "positional accuracy" which tells you how confident we are of the actual location.

Section 1b: Landfill and Waste

At present no complete national data set exists for landfill site boundaries, therefore, a point grid reference, provided by the data supplier, is used for some landfill sites. In certain cases the point grid references supplied provide only an approximate position, and can vary from the site entrance to the centre of the site. Where the exact position of the site is unclear for Registered Landfill data, Landmark construct either a 100 metre or 250 metre "buffer" around the point to warn of the possible presence of landfill. The size of this "buffer" relates to the positional accuracy that can be attributed to the site. The "buffer" is shown on the map as a red hatched area. For further information regarding landfill sites identified in the report, please contact the relevant environment agency or authority referenced in the Useful Contacts section.

The BGS holds records of over 3,000 landfill sites that accepted waste prior to the Control of Pollution Act (COPA) 1974. These were not subject to any strict regulation or monitoring.

Permitted Waste Sites and Environmental Permitting Regulations - Waste cover current or recently current consents issued for landfill sites, waste transfer, treatment or disposal sites by the Environment Agency/Natural Resources Wales, under Section 64 of the Environmental Protection Act 1990 (Part 2) and prescribed by regulation 10 of SI No. 1056 of the Waste Management Licensing Regulations 1994.

Section 1c: Potentially Contaminative Activities

Identified discharge consents could be for storm water discharges, soakaways or septic tanks.

If a radioactive substance licence has been identified the consent band will be given under enquiries and replies. Consents fall into one of four bands: Band 1 and 2 Nuclear licensed sites authorised by the Nuclear Installations Inspectorate e.g. nuclear power stations Band 3 Site registered/authorised to accumulate and dispose of radioactive materials, only non-nuclear operations are carried out on site e.g. hospitals Band 4 Sites registered to keep and use radioactive material e.g. laboratories, universities, commercial premises using appliances such as monitoring equipment, alarm systems, tritium lighting etc.

Data supplied for Explosive Sites, Control of Major Accident Hazards Sites (COMAH) and Notification of Installations Handling Hazardous Substances (NIHHS) contains public sector information published by the Health and Safety Executive and licensed under the Open Government Licence.

Section 1e: Other Potential Contaminative Land Uses

This section relates to categories of potentially contaminative land uses that have been identified by the analysis of selected Ordnance Survey historical mapping. The published date (range of dates) of the map (s) and the distance from the centre of search to the nearest point of the feature is given. Further details of the extent of the site or its activities are not available. Should you wish to examine the Ordnance Survey maps these are normally available for public inspection at the local archive or local major library. Alternatively, extracts of editions of Ordnance Survey maps are available on www.old-maps.co.uk

Potentially infilled land has been identified when a 'cavity' (a hole made by an extractive industry or natural occurrence e.g. pond) was indicated on a historic map but there was no evidence of its existence in the last available map for the area. No details of what may have been used to fill the cavity or exactly when or if it was filled are available from the mapping.

The point locations of historical tanks and energy facilities are identified from the text on Ordnance Survey 1:1250 and 1:2500 scale mapping published between 1943 and 1996, based upon a predetermined list of abbreviations, e.g. El Sub (Electricity Sub-station) and F Stn (Filling Station). The position of the point has been located at the centre of the identified text so that it would be within approximately 30 meters of the feature it was describing. The features themselves are related to energy and petroleum storage and cover the following: tanks, petrol storage, potential tanks (at depots etc.), electricity sub stations and related features, gas and gas monitoring related features, oil related features and miscellaneous power features. NB: It should be noted that the Ordnance Survey abbreviation for tank (tk) is the same as that for tracks. Therefore some of the captured text may relate to tracks and not tanks when the exact nature of the feature is not clear from the mapping.

Section 2: Flood Findings

Sections 2a, b and c of the report provide data on modelled extents of river, coastal and surface water flooding generated by JBA Risk Management, a market leader in flood risk assessment commonly engaged by insurers to assess flood risk. The data has been modelled for several perils or return periods: 1 in 75, 1 in 200 or 1 in 1000 which relate to areas with a 1.3%, 0.5% and 0.1% annual probability of flooding in any one year respectively. Properties at risk of flooding during a 1 in 75 year event are typically considered to be at a high risk of flooding. The data has been generated to provide a UK wide screening tool and as a result may have inherent limitations. In addition, there may be areas of the country which are modelled to varying degrees of accuracy based on currently available topographical information.

Section 3: Radon Findings

Due to the nature of way the information is gathered, your property/site may have more than one probability of radon attributed to it. We report the worst case scenario on the property/site you have provided. This information is an estimate of the probability that a property /site in Great Britain is at or above the "Action Level" for radon (the level at which Public Health England recommends that radon levels should be reduced, those with an average of 200 Bq m⁻³ or more). This information satisfies CON29 Standard Enquiry of Local Authority; 3.13 Radon Gas: Location of the Property in a Radon Affected Area. Where the property/site is a new build, this information provides information on the level of protection required for new buildings under BR211 (Scivyer, 2007) Radon: Guidance on protective measures for new buildings.

Disclaimer: "Some of the responses contained in this section are based on data and information provided by the Natural Environment Research Council (NERC) or its component bodies the British Geological Survey (BGS). Your use of any information contained in this report which is derived from or based upon such data and information is at your own risk. Neither NERC, BGS nor Public Health England where applicable, gives any warranty, condition or representation as to the quality, accuracy or completeness of such information and all liability (including liability for negligence) arising from its use is excluded to the fullest extent permitted by law."

Section 5a: Environmental Constraints

The Local Nature Reserves national dataset is "indicative" not "definitive". Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.

General

If after reading the details in this report regarding the sites identified, you still require further information, please contact the relevant environment agency or authority indicated in the Useful Contacts section quoting the corresponding reference given in the text of the report.

The contacts in the Useful Contacts section may be able to provide further information relating to items identified in the report, however they are not in a position to advise how these might affect the value of a property. The findings of the report should be discussed with your professional advisor.

The Purpose and Scope of the Report

The report is designed to satisfy the concerns raised by the Law Society warning card and has been prepared to assist conveyancing professionals who may be advising clients when they sell or buy a property, obtain a mortgage, seek further mortgage advice, or commence any building works. It is designed to bring information to their attention and help them decide whether they need to seek any further specialist advice. As the report is so detailed, this information can cause concern, but professional advisors will see that further action is suggested on all issues that have been identified.

Limitations

This report has been published by Landmark Information Group Limited ("Landmark") and is supplied subject to our Terms and Conditions of Business, which can be found at <http://www.landmarkinfo.co.uk/Terms/Show/534>. It has been prepared on the understanding that it is to be used for an individual residential property transaction and should not be used or relied upon in a commercial property transaction. This report is neither a guarantee of the physical condition of the subject property nor a substitute for any physical investigation or inspection. The information in Homecheck Professional is derived from a number of statutory and non-statutory sources (see The Practitioner Guide for details). Whilst every effort is made to ensure the details in the report are correct, Landmark cannot guarantee the accuracy or completeness of such information or data, nor identify all the factors that may be relevant. If you are a private individual using this report Landmark recommends that you discuss its contents in full with your professional advisor. The methodology for risk assessment and the conclusions drawn therefrom are the responsibility of Argyll Environmental Consultants.

Insurance

Houses registered between 1st April 1999 and 31st December 2002 and covered by the NHBC Buildmark scheme probably have insurance against certain costs if contamination occurs within ten years of their construction. From 1st January 2003, NHBC will only provide this cover if building control has been carried out by NHBC Building Control Services Limited.

Landmark Standard Terms and Conditions

Full Terms and Conditions can be found on the following link: <http://www.landmarkinfo.co.uk/Terms/Show/534>

If you experience difficulties accessing our Terms and Conditions, please copy and paste the link directly into your browser, you will then be able to access our Terms and Conditions from there. Should you still experience difficulties, please telephone our Customer Service Team on 0844 844 9966.

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Important Consumer Protection Information

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Fax: 0844 844 9980

Email: helpdesk@landmark.co.uk

Landmark adheres to the Conveyancing Information Executive (CIE) standards.

The Standards:

- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Website: www.tpos.co.uk

Email: admin@tpos.co.uk

Landmark Complaints Procedure

If you want to make a complaint to Landmark, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Customer Relationships Manager
Landmark Information
Imperium
Imperial Way
Reading
RG2 0TD

Tel: 0844 844 9966

Email: helpdesk@landmark.co.uk

Fax: 0844 844 9980

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306

Email: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Annex 2 - Site Photographs

Photograph 1.



View: south-west

Looking towards the existing entrance to the property, with the public lane lying beyond.

Photograph 2.



View: north-east

Looking across the site from the southwest extent of the property, with Barns 1 and 2 as depicted.

Photograph 3.



View: east-south-east

View across the southern extent of the plot.

Photograph 4.



View: north-north-east

Looking to the barns from the southern site area.

Photograph 5.



View: north

Associated open meadow land located toward the rear of the barns.

Photograph 6.



View: east-south-east

Looking to the rear extent of Barn 1.

Photograph 7.



View: south-east

Looking to the rear extent of Barn 2.

Photograph 8.



View: north-west

Barn 1, as viewed from neighbouring land owned by the client.

Photograph 9.



View: north-west

Barn 2, as viewed from neighbouring land.

Photograph 10.



View: east-south-east

Internal view of the mid section of Barn 1.

Photograph 11.



View: north-west

Internal view of the garage/workshop attached to Barn 2.

Photograph 12.



View: north-west

Internal storage of domestic items within Barn 2.

Annex 3 - References & Planning Procedure Guide

References:

AGS: Association of Geotechnical & Geoenvironmental Specialists, (2003)

British Standards Institution, 1999, BS 5930:1999 Code of Practice for Site Investigations

British Standards Institute 2011, 10175: Investigation of Potentially Contaminated Sites (Code of practice)

CIRCA Report C552 Contaminated Land Risk Assessment, A Guide To Good Practice (2001)

CL:AIRE Research Bulletin RB17, A Pragmatic Approach To Ground Gas Risk Assessment (2012)

DEFRA/EA (2004) Model Procedures for the Management of Contaminated Land, R&D Publications CLR11

DEFRA/EA (2002) Contaminants in Soil: Collation of Toxicological Data Intake Values for Humans, R&D Publications SGV 1

DEFRA/EA (2002) Potential Contaminants for Assessment of Contaminated Land, R&D Publications CLR8

DEFRA/EA (2002) Soil Guideline Values for Arsenic Contamination, R&D Publications CLR8

DEFRA/EA (2002) CLR Report No10, The Contaminated Land Exposure Assessment Model (CLEA):

DEFRA/EA (2012) Environmental Protection Act 1990: Part 2A, Contaminated Land Statutory Guidance

Dines, H.G. The Metalliferous Regions of South West England (2 Vols)

Environment Agency (January 2006) Development and Flood Risk 2004/05

Environment Agency (2004) CLR Report No 11 Model Procedures for the Management of Land Contamination

Environment Agency, Policy & Practice for the Protection of Groundwater/ Groundwater Vulnerability of East Cornwall/ 1:100,000

ICRCL - Interdepartmental Committee for the Redevelopment of Contaminated Land (1976-1990) Various Publications, HMSO

Magic Website, Multi-Agency Geographic Information for the Countryside.

National Planning Policy Framework ,2012

NHBC/EA (2008) - Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66

Remedial Treatment for Contaminated Land Vol. III – Site Investigation and Assessment, Special Publication 103

Selwood E.B, Durrance E.M, Bristow C.M,(1998): The Geology of Cornwall

Steeds, J.E, Slade, M.W : Technical Aspects of Site Investigations. Vol 1 (of 2) Overview

Maps & Plans:

Dines, H.G. Composites

Get mapping: Aerial Photographs

Jenkin, A.K.H

Ordnance Survey Maps/historical & current

PHASE 1 Desktop Site Report (Contaminated Land Survey)

Environmental survey listing site history
Identify any contaminants of concern/conceptual model
Mine search (historic survey)
Walk-over survey

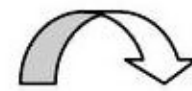
Submit planning application & desktop report



PHASE 2 Site Investigation & Risk Assessment

Ground investigations often in the form of:
Soil sampling, trenching investigation/drilling
Undertake risk evaluation & recommendations
Proceed to Phase 3 should contamination be identified

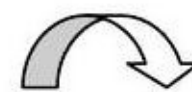
Submit report for approval



PHASE 3 Remediation Strategy

Remediation strategy report for the development of the site

Submit report for approval



PHASE 4 Site Monitoring

Monitor site development
Verification of remedial works





ASI Core Services:

- ✓ **Contaminated Land Surveys (Phase 1)**
- ✓ **Soil & Water Analysis Reports (Phase 2)**
- ✓ **Land Remediation Reports (Phase 3)**
- ✓ **Site Verification & Completion Reports (Phase 4)**
- ✓ **Drilling & Ground Profiling Investigations**
- ✓ **Trenching & Foundation Inspections**
- ✓ **Shaft & Mining Feature Securing Works**
- ✓ **Waste Classification Assessments**
- ✓ **Historic Mine Searches (arranged upon request)**
- ✓ **Non Interpretive Environmental Reports**

Our client commitment is to provide you with:

- **Professional, efficient solutions.**
- **To liaise with you at each step of your project.**
- **Provide competitive pricing tailored to your site requirements.**

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