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Geotechnical & Geoenvironmental Specialists

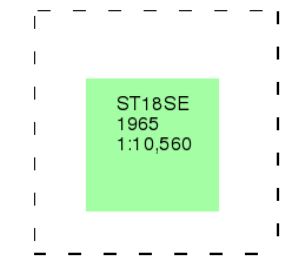
## Ordnance Survey Plan

Published 1965

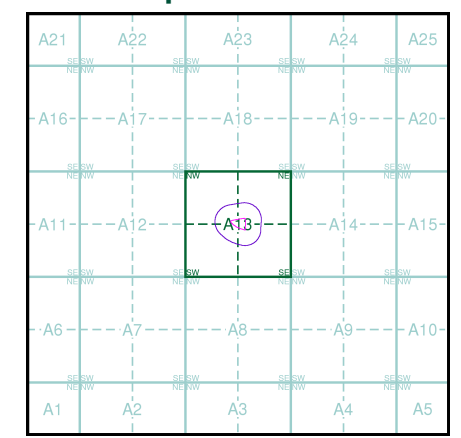
Source map scale - 1:10,000

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

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



### Historical Map - Slice A



### Order Details

Order Number: 367367815\_1\_1  
Customer Ref: 24-310-CA wolfcastle  
National Grid Reference: 317430, 182260  
Slice: A  
Site Area (Ha): 0.47  
Search Buffer (m): 1000

### Site Details

Wolfs Castle Hotel, Wolfs Castle Avenue, Llanishen, CARDIFF, CF14 5JS



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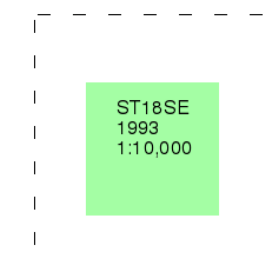
## Ordnance Survey Plan

**Published 1993**

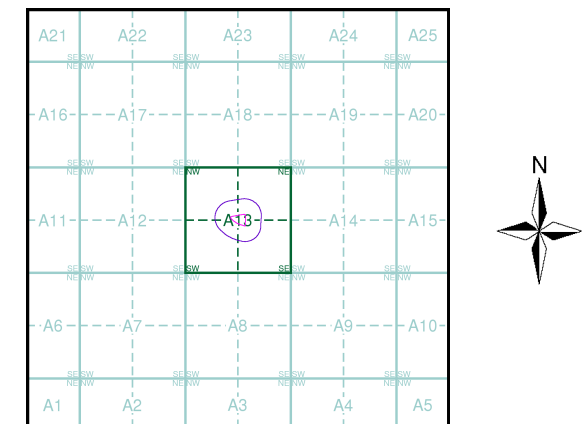
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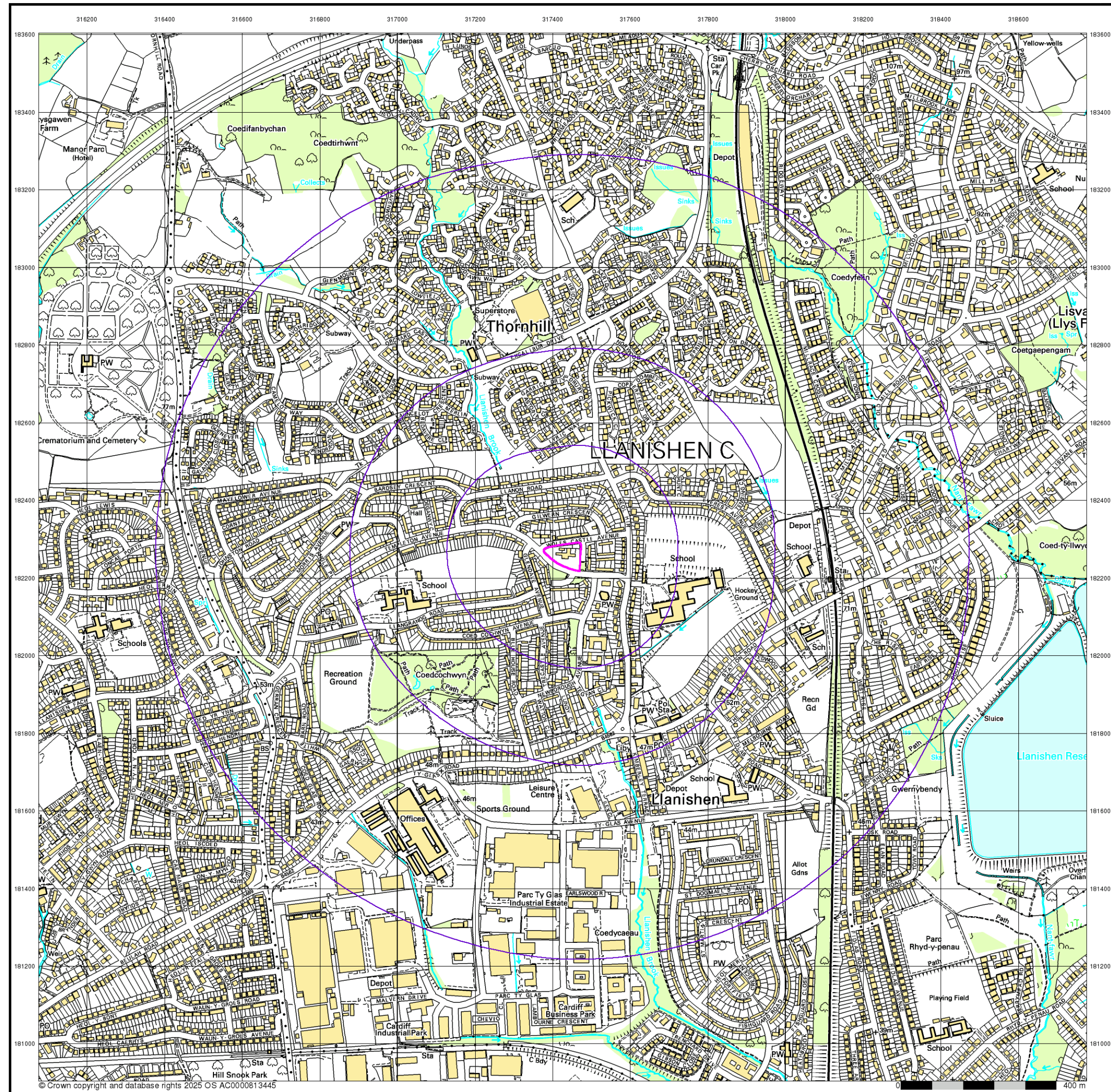
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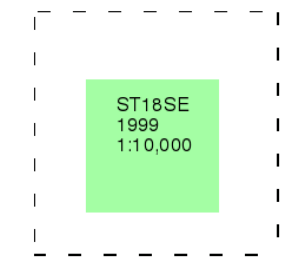
## 10k Raster Mapping

Published 1999

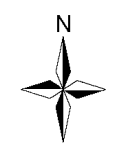
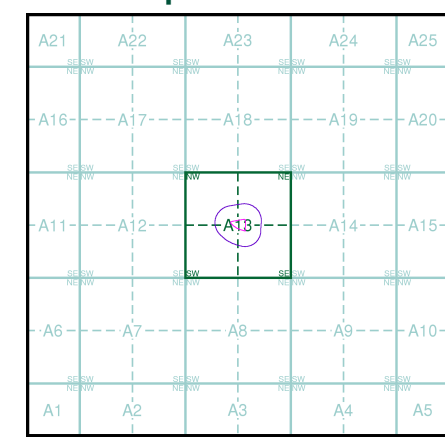
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

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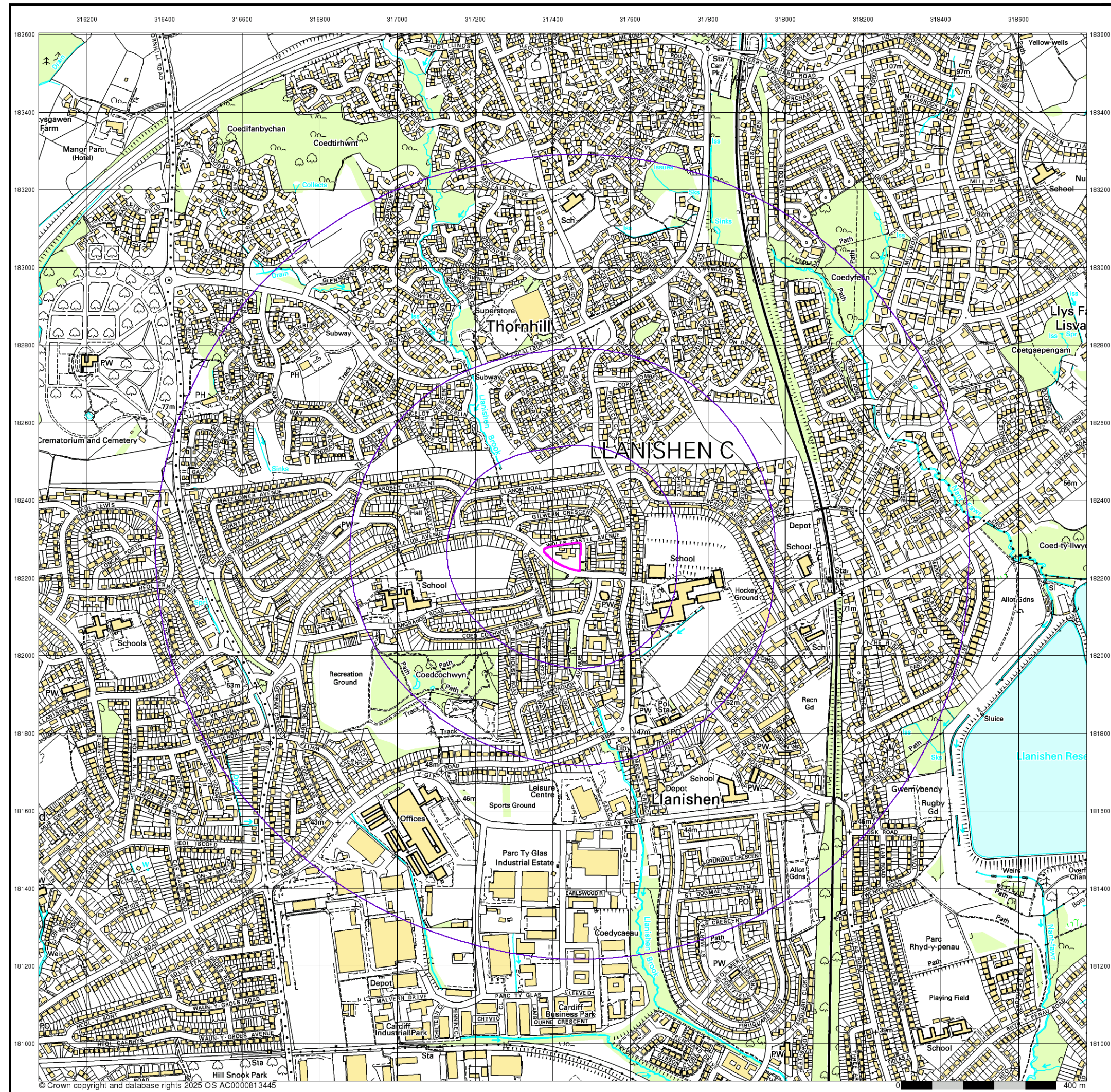
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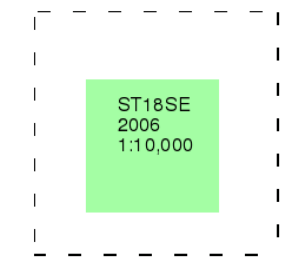
## 10k Raster Mapping

Published 2006

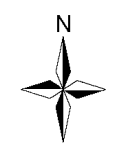
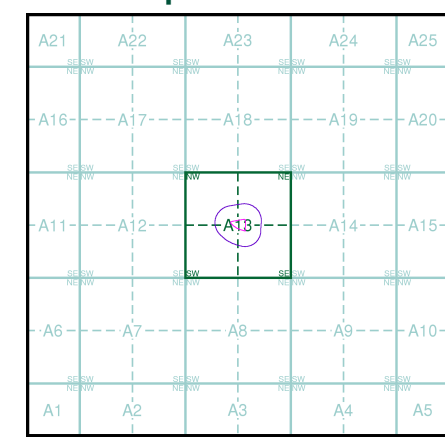
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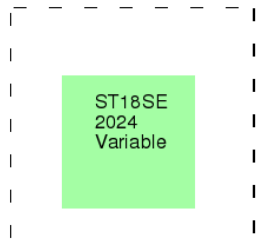
## VectorMap Local

Published 2024

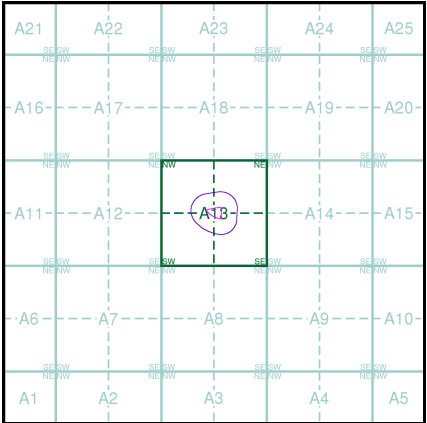
Source map scale - 1:10,000

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

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**ANNEX B**  
**Statutory Utility Plans**









**ANNEX C**  
**Risk Assessment Definitions**





## Risk Assessment Definitions

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1<sup>st</sup> April 2000 in England and 1<sup>st</sup> July 2001 in Wales. A similar regime was introduced in Scotland on 14<sup>th</sup> July 2000.

Part 2A was introduced to achieve three overarching objectives:

- (a) To identify and remove unacceptable risks to human health and the environment.
- (b) To seek to ensure that contaminated land is made suitable for its current use.
- (c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' 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 a significant possibility of such harm being caused; or
- (b) Pollution of controlled waters is being, or is likely to be, caused."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Contaminant Linkage**'. A contaminant linkage requires three essential elements:

- (a) A **CONTAMINANT (SOURCE)** – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
- (b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
- (c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

Guidance provided by the Environment Agency to aid in managing risks from land contamination (Land Contamination Risk Management - LCRM), defines a 'Hazard' as:

*'Hazard – a property or situation that in particular circumstances could lead to harm'*

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is also given in LCRM guidance:

*'Risk – a combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'*

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.





## Classification of Consequence

Table A Classification of Consequence	
Classification	Definition
Severe	<ul style="list-style-type: none"> <li>• Short term (acute) risk to human health likely to result in significant harm.</li> <li>• Short term risk to controlled waters.</li> <li>• Catastrophic damage to buildings/structures.</li> <li>• Short term risk to an ecosystem or organism within the particular ecosystem.</li> </ul>
Medium	<ul style="list-style-type: none"> <li>• Chronic damage to human health (long term risk).</li> <li>• Pollution of a sensitive water resource.</li> <li>• A significant change in an ecosystem or organism within the ecosystem.</li> </ul>
Mild	<ul style="list-style-type: none"> <li>• Pollution of non-sensitive water resources.</li> <li>• Significant damage to buildings/structures.</li> <li>• Damage to sensitive buildings/structure/services or the environment.</li> </ul>
Negligible	<ul style="list-style-type: none"> <li>• Harm (not necessarily significant) which may result in financial loss.</li> <li>• Non-permanent health effects to humans (easily prevented by PPE for example).</li> <li>• Easily repairable effects of structural (building) damage.</li> </ul>

## Classification of Probability

Table B Classification of Probability	
Classification	Definition
High Likelihood	<ul style="list-style-type: none"> <li>• There is a complete contaminant linkage and an event appears very likely to occur in the short term and is inevitable in the long term.</li> <li>• Evidence of harm to the receptor.</li> </ul>
Likely	<ul style="list-style-type: none"> <li>• There is a complete contaminant linkage which means that it is probable that an event will occur.</li> <li>• The event is not inevitable but possible in short term and likely in the long term.</li> </ul>
Low Likelihood	<ul style="list-style-type: none"> <li>• There is a complete contaminant linkage and circumstances are possible under which an event could occur.</li> <li>• It is not certain that an event will occur in the long term, and it is less likely to occur in the short term.</li> </ul>
Unlikely	<ul style="list-style-type: none"> <li>• There is a complete contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.</li> </ul>



## Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a contaminant linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix					
Increasing acceptability ↘		Consequence			
		Severe	Medium	Mild	Negligible
Probability	High Likelihood	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

## Description of Risks and Likely Actions

### High Risk

There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

### Medium Risk

It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

### Low Risk

It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

### Near Zero Risk

There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.





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