PHASE 1 SITE INVESTIGATION & PRELIMINARY RISK ASSESSMENT

Lidl Great Britain Ltd Former Severn Bridge Club, Chepstow

Client: Lidl Great Britain Ltd

Remada

www.remada.co.uk

799.01.02 July 2021





Executive Summary

Remada Ltd was commissioned by Lidl Great Britain Ltd ('the client') to undertake a Phase 1 Preliminary Risk Assessment for a proposed new Lidl store at the former Severn Bridge Club, Bulwark Road, Bulwark, Chepstow, NP16 5QZ. The objectives of this assessment were to present a preliminary conceptual site model to identify plausible pollutant linkages as a preliminary risk assessment and to provide recommendations for subsequent investigation work.

Site Setting

The site occupies a rectangular shaped plot of land, located within the north west corner of Bulwark Industrial Estate, off Bulwark Road, and is situated approximately 1 km south of Chepstow Town Centre.

The site is currently occupied by the former Severn Bridge Club building and surrounding car park, and the adjacent Malvern Tyres, as indicated in **Figure 2**. The southern and south western site boundaries are delineated by wire mesh fencing, with part of the western boundary comprising wooden fencing. Hedgerows delineate part of the northern boundary. Metal fencing currently separates the Severn Bridge Club and Malvern Tyres.

Site History

The earliest available historic mapping of 1881 indicates the site to be occupied by a residential property 'Fairfield Lodge' with associated garden, woodland and fields. By 1901 the site was being referred to as Fairfield Farm. By 1921, the former field in the eastern margin of the site had been redeveloped by housing blocks of the wider Bulwark Village, which remained until their demolition between 1971 and 1977. The existing Severn Bridge Social Club was developed between 1955 and 1966.

Geology / Hydrogeology

Published geological maps record that the site is directly underlain by the Mercia Mudstone Group, designated as a Principal Aquifer.

Mining

The site is not located within an area which may be affected by coal mining activity.

Recommendations

The desk study has identified a number of on-site and off-site potential sources of contamination that would require further investigation. The following is recommended:

- Investigation of the lateral and vertical extent of made ground beneath the site;
- Collection of soil and groundwater samples from the areas identified above for contaminants of concern; and
- Ground gas monitoring.

Geotechnical

It is recommended that a ground investigation is undertaken to enable preliminary foundation design.





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lssue No /	Date	Prepared By	Technical Review	Authorised
01	10.12.2020	J Mendham J Mendhar	PDickinson P.D.L.	G Jones Jones
02 – Revised Store Layout	13.07.2021	P Dickinson P.D.L	P Dickinson P.D.d.	G Jones <u>Jones</u>





1. INTRODUCTION

Remada Ltd was commissioned by Lidl Great Britain Ltd ('the client') to undertake a Phase 1 Preliminary Risk Assessment for a proposed new Lidl store at the former Severn Bridge Club, Bulwark Road, Bulwark, Chepstow, NP16 5QZ at the location indicated in **Figure 1**.

1.1. Objectives

The objectives of this assessment are as follows:

- to develop a preliminary conceptual model of the site to identify plausible pollutant linkages; and
- to provide recommendations for subsequent investigation work.

1.2. Scope of Work

The scope of work comprised a:

- review of local geological, hydrogeological, ground stability, and environmental data and historical mapping pertaining to the site and surrounding area; and
- identification of potential sources, pathways, and receptors, and development of a preliminary conceptual site model.

The scope of work did not include a site reconnaissance visit.

1.3. Previous Reports

It is not known if historic reports are available for review.

1.4. Limitations

The comments given in this report and the opinions expressed are based on the information reviewed and observations during site work. However, there may be conditions pertaining to the site that have not been disclosed by this assessment and therefore could not be taken into account.





2. DESK STUDY

2.1. Description of Site

Site Description	The site occupies a rectangular shaped plot of land, located within the north-west corner of Bulwark Industrial Estate, off Bulwark Road, and is situated approximately 1 km south of Chepstow Town Centre.
	The site is currently occupied by the former Severn Bridge Club building and surrounding car park, and the adjacent Malvern Tyres, as indicated in Figure 2 . The southern and south western site boundaries are delineated by wire mesh fencing, with part of the western boundary comprising wooden fencing. Hedgerows delineate part of the northern boundary. Metal fencing currently separates the Severn Bridge Club and Malvern Tyres.
Area of Site	5900 m ² .
Site Elevation	The topographic elevation of the site ranges from 63m aOD (metres above ordnance datum) towards the north west, to 58m aOD towards the south east.
National Grid Co-ordinates	353420, (E), 192830 (N)

2.2. Site Setting

The site is situated in a mixed residential, commercial and industrial area.

North:	Residential buildings and associated areas of green space.
East:	Directly east are commercial / industrial units within Bulwark Industrial Estate. Further afield is the River Wye.
South:	Directly south are commercial / industrial units within Bulwark Industrial Estate. Further afield are residential buildings.
West:	Residential buildings, including Pembroke Primary School, and associated areas of green space.

2.3. Site History

A summary of the historical land use of the site and surrounding area follows.

Map Date	Description of on-site activities
1881	The earliest available historic mapping indicates the majority of the site to be occupied by Fairfield Lodge; a residential property with associated garden and woodland. The eastern margin of the site is undeveloped and occupied by a field which extends off-site towards the north-east and south.
1887	Similar to above.
1901	Similar to above, although site renamed Fairfield Farm.
1902	Similar to above.
1903	Similar to above.
1921	The former field in the eastern margins of the site has been redeveloped and is now occupied by housing blocks associated Bulwark Village. This had been developed





	from 1917 to accommodate the influx of labour for Chepstow's National Shipyard No. 1 as part of the War Effort.
1924	Similar to above.
1938	Similar to above although one of the Bulwark Village buildings in the north-eastern corner of the site has been removed.
1955	Similar to above.
1966	The majority of the site has been redeveloped and is now occupied by the presented day Severn Bridge Social Club. In the easternmost area of the site, the remaining elongate housing block is labelled as Nos $1 - 3$ Wiltshire Bungalows.
1971	Similar to above.
1977	The former Wiltshire Bungalows in the eastern margin of the site have been removed. The site takes its present form.
Map Date	Description of off-site activities
1881	The surrounding area is predominantly occupied by fields and woodland. A roadway following a similar alignment to the present-day Bulwark Road, forms the western site boundary.
1887	Similar to above.
1901	Similar to above.
1903	Similar to above.
1921	There has been significant redevelopment of the land to the east and south-east of the study site, with the establishment of the Bulwark Garden Suburb as housing for the workers of Chepstow's National Shipyard. The elongate structures appear to be arranged in barracks-type formation, whilst contemporary sources indicate them to be concrete huts. A tank of unknown contents has been installed from 30m south.
1922	Similar to above.
1924	Similar to above.
1938	Residential redevelopment of the former open land from circa. 50m to the north-west
1955	A quarry has been established approximately 150m to the north-east of the study site.
1966	There has been significant redevelopment of the surrounding area, with new housing estates constructed to the north, east and south. A Bus Depot has been installed circa 110m to the south, whilst a builder's yard is present from 20m west.
1971	Similar to above.
1977	The former Bulwark Village buildings to the east and south-east have beer redeveloped and their position occupied by a tyre depot, a light engineering works a council yard, factory units and warehouses.





1981	An electrical sub-station has been installed circa 20m to the west of the site, whilst the former Builder's Yard has been redeveloped. An unspecified tank is indicated to be present from 90m to the south-east.
1984	Similar to above.
1989 / 90	Similar to above.
1995	Similar to above.
1996	Similar to above.
2000	Similar to above.
2020	Similar to above.

2.4. Proposed Site Use

It is understood that the proposed site use for the majority of the site will be a Lidl retail store with associated car park and soft landscaping. This development will comprise a site area of 5891m² fronting onto a currently unnamed road, just off of Bulwark Road, as shown in **Figure 3**.

2.5. Environmental Setting

2.5.1. Made Ground and Superficial Geology

Information from the environmental report and the British Geological Survey (BGS) 1:50,000 scale map Sheet 250 (Chepstow) indicates that there is no made ground underlying the site. However, reference to Google Maps has identified made ground comprising hardstanding as a car park.

There are no superficial deposits underlying the site.

2.5.2. Bedrock Geology

The bedrock directly underlying the site is formed of the Mercia Mudstone Group (Marginal Facies), for which the parent unit is the Mercia Mudstone Group. The BGS describes this formation as "Variable, typically consisting of conglomerate and/or breccia with clasts derived locally from rocks lying immediately below the unconformable base of these deposits. The matrix generally consists of finer-grained rock fragments or, less commonly, siltstone, sandstone or micritic limestone."

The bedrock is designed as a Principal Aquifer (ref Envirocheck Appendix B).

2.5.3. Historic BGS Borehole Records

There are no pertinent BGS historic boreholes records within the vicinity of the study site.

2.5.4. Groundwater Abstractions

There are no groundwater abstraction points within the search area (ref Envirocheck **Appendix B**).

2.5.5. Source Protection Zones

The site is not located within a Groundwater Source Protection Zone (ref Envirocheck Appendix B).

2.5.6. Surface Water Features and Abstractions

The River Wye and a branch of unnamed inland rivers are located within 500m of the site, to the east (ref Envirocheck **Appendix B**).





2.5.7. Flooding Vulnerability

The site is located in an area with limited potential for groundwater flooding to occur. There are no recorded surface water flood zones within the search area (ref Envirocheck **Appendix B**).

2.5.8. Ground Stability

The Envirocheck Report (**Appendix B**) provides the following information regarding ground stability and mining.

Shrinking / Swelling of Clay The site is within an area of no hazard from shrinking or swelling of clays.

Rock Solubility	There is a low hazard rating from rock solubility at the site.
Compressible Ground	There is a no hazard rating from compressible ground.
Collapsible Deposits	There is a very low hazard rating from collapsible rocks.
Running Sand	There is a no hazard rating for running sands.

2.5.9. Radon

The site is located in Intermediate Probability Radon Area as 5 - 10% of properties are above the Action Level. Basic radon protective measures are necessary (ref Envirocheck **Appendix B**).

2.5.10. Environmentally Sensitive Site Designations

The River Wye SSSI and SAC are located between 314 and 389m north east of the site. Pennsylvania Fields, Sedbury SSSI is located 465m north east of the site (ref Envirocheck **Appendix B**).

2.6. Industrial Lane Use

There are thirty-six (36 No) contemporary trade directory entries locations within 250m of the site. The majority pertain to various manufacturers, and vehicle garages, servicing and repairs (ref Envirocheck **Appendix B**).

There is one fuel station entry within 250m of the study site. This is located 214m to the north west on Bulwark Road and is recorded as being obsolete.

2.7. Environmental Permits, Incidents & Registers

There are two permitted process entries within 250m of the study site. These are Local Authority Pollution and Prevention Controls (LAPPC) pertaining to Chepstow Service Station, 17m south west, authorised on 16th December 1998 as a petrol filling station, and G E Capital Equipment Services Ltd, 125m east, authorisation revoked on 1st February 2000 for the respraying of road vehicles.

There are five (5 No.) recorded pollution incident entries within 250m of the site. The nearest was located 77m to the south-west and pertains to an unknown pollutant impacting the Crossens Channel in September 1991. The incident was recorded as being a Category 3 (Minor Incident) (ref Envirocheck **Appendix B**).

2.8. Landfill & Waste Sites

There are one (1 No) Local Authority Landfill Coverage site, two (2 No) historical landfill sites, three (3 No) licensed waste transfer facilities and one (1 No) registered landfill site within 1km of the site (ref Envirocheck **Appendix B**).

2.9. Mining

The site is not located within an area which may be affected by coal mining activity (ref Envirocheck **Appendix B**).





3. PRELIMINARY RISK ASSESSMENT

3.1. Introduction

A Preliminary Risk Assessment (PRA) has been completed for the site. This PRA identifies the potential sources, pathways, and receptors for the site, in order to assess the potential risks posed by identified potential sources to human health and / or controlled waters receptors. When required, the viability of the Source-Pathway-Receptor pollutant linkage must be evaluated further to determine whether an actual risk is present.

3.2. Potential Sources

On-site Historical

• General Made Ground associated with historic redevelopment.

On-site Current

• Severn Bridge Club and associated car park.

<u>Off-site Historical</u>

- Builder's Yard (from 20m W)
- Bus Depot (from 110m S);
- Tyre Depot;
- Various works, factories and warehouses;
- Electricity sub-station; and
- Unspecified Tanks (from 90m SE).

Off-site Current

- Residential housing;
- Light industrial and commercial premises, including *Malvern Tyres*.

3.3. Potential Contaminants of Concern (PCOCs)

- Metals
- Asbestos (associated with demolition and redevelopment of the existing site).
- Total petroleum hydrocarbons (TPH)
- Polycyclic aromatic hydrocarbons (PAH).
- Ground gases (methane, carbon dioxide and radon)
- Polychlorinated biphenyls (PCBs)

3.4. Potential Receptors

<u>Human Health</u>

- On-site Lidl store staff.
- Construction workers.
- On-site general public and visiting staff (such as contractors, including those conducting excavation works).
- Neighbouring residents





Controlled Waters

- Principal Aquifer in Mercia Mudstone Group bedrock;
- River Wye.

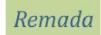
3.5. Preliminary Conceptual Model

The Preliminary Conceptual Site Model of the site has been prepared and illustrates the potentially active pollutant linkages. A pollutant linkage is present only when a source, pathway and receptor exist together.

- A **source** is a substance that has potential to cause harm or adversely affect human health, water resources or the wider environment.
- A **pathway** is the route or means by which a source of contamination can migrate resulting in exposure to a receptor.
- A **receptor** is something that could be adversely affected by a contaminant such as human health, an ecological system, animals or crops, buildings or controlled waters.

The Preliminary Conceptual Site Model is presented in **Table 1**.





Potential Source Areas	Potential Contaminant of Concern	Pathways	Potential Receptor		Exposure Route (Human unless otherwise stated)	Potential Identified Linkage (unmitigated)	Findings of Ground investigation	Risk (Un- mitigated)	Proposed Remediation (Mitigation) Measures	Residual Risk Estimation																																						
On-site Sources General Made Ground		Disturbance due to construction plant	Occupants of the	•	•	Direct Soil Ingestion	Yes	To be assessed (TBA)	Potential risk	(To be assessed (TBA)	(To be assessed (TBA)																																					
Severn Bridge Club	Asbestos / Metals As. Be.	causing direct contact, dusts, vapours.		•	Indoor Dust ingestion	Yes	As above	Potential risk	ТВА	ТВА																																						
Off-site Sources	Cd, Cu, Cr (VI), Cr (III) Hg, Ni,			•	Skin Contact with Soils	Yes	As above	Potential risk	ТВА	ТВА																																						
Made Ground	Se, Va, Zn, <i>Boron, TPH</i>	Direct Contact with	development / building	•	Skin Contact with Dust	Yes	As above	Potential risk	ТВА	ТВА																																						
Builders Yard	/PAH, PCBs	occupants of the proposed	Adjacent residents during construction	U		U	•	Inhalation of Outdoor Dust	Yes	As above	Potential risk	ТВА	ТВА																																			
Tyre Depot	development Inhalation of fibres / vapours / gases by occupants of proposed development Permeation of water supply pipework			•	Inhalation of Outdoor Vapours	Yes	As above	Potential risk	ТВА	ТВА																																						
Bus Depot		residents during		residents during	residents during	of Adjacent residents during construction	residents during	residents during	residents during	residents during	residents during	residents during	residents during											•	Inhalation of ground gas	Yes	As above	Potential risk	ТВА	ТВА																		
Electricity Sub-Station														•	Inhalation of radon gas	Yes	Intermediate Probability	Potential Risk	Basic Radon Protection	Low																												
Various works.																•	Inhalation of Indoor Vapours	Yes	Radon Area As above	Potential risk	Measures TBA	ТВА																										
factories and warehouses																			l																													
Residential premises				•	Inhalation of ground gas	Yes	As above	Potential risk	ТВА	ТВА																																						
		Leachate	Principal Aquifers	•		•	•	Leaching to Principal Aquifers in Bedrock deposits	Yes	As above	Potential risk	ТВА	ТВА																																			

Table 1: Preliminary Conceptual Site Model

Direct contact with subsurface soil and/or groundwater during redevelopment works are not assessed as part of the CSM. It is considered that risks to workers will be managed as part of any the redevelopment works at the site through the application of health and safety procedures, where required.





4. CONCLUSIONS & RECOMMENDATIONS

4.1. Conclusions

A proposed new Lidl store is to be constructed within the north-eastern part of the site currently occupied by the Severn Bridge Club, off Bulwark Road in Chepstow, with a car park to the south and west of the proposed store.

The earliest available historic mapping of 1881 indicates the site to be occupied by a residential property 'Fairfield Lodge' with associated garden, woodland and fields. By 1901 the site was being referred to as Fairfield Farm. By 1921, the former field in the eastern margin of the site had been redeveloped by housing blocks of the wider Bulwark Village, which remained until their demolition between 1971 and 1977. The existing Severn Bridge Social Club was developed between 1955 and 1966.

Published geological maps record that the site is directly underlain by Mercia Mudstone Group, designated as a Principal Aquifer.

4.2. Recommendations

Environmental

The desk study has identified a number of on-site and off-site potential sources of contamination that would require further investigation. The following is recommended:

- Investigation of the lateral and vertical extent of made ground beneath the site;
- Collection of soil and groundwater samples from the areas identified above for contaminants of concern; and
- Ground gas monitoring.

Geotechnical

It is recommended that a ground investigation is undertaken to enable preliminary foundation design.





REFERENCES & GUIDANCE

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STUDY LIMITATIONS

IMPORTANT. This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1. This report has been prepared by Remada, Ltd with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with (the 'Client'). Remada does not accept responsibility for any matters outside the agreed scope.

2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.

3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Remada is unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have published, more stringent objectives. Further work may be required by these parties.

4. All work carried out in preparing this report has used, and is based on, Remada' professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice pending changes in legislation, of which Remada is aware, have been considered. Following delivery of the report Remada has no obligation to advise the Client or any other party of such changes or their repercussions.

5. This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.

6. Whilst this report and the opinions made are to the best of Remada' belief, Remada cannot guarantee the accuracy or completeness of any information provided by third parties.

7. This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have received.

8. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the site since the time of the investigation.

9. The content of this report represents the professional opinion of experienced environmental consultants. Remada does not provide specialist legal or other professional advice. The advice of other professionals may be required.

10. Where intrusive investigation techniques have been employed they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.

11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on site.

12. Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issues.

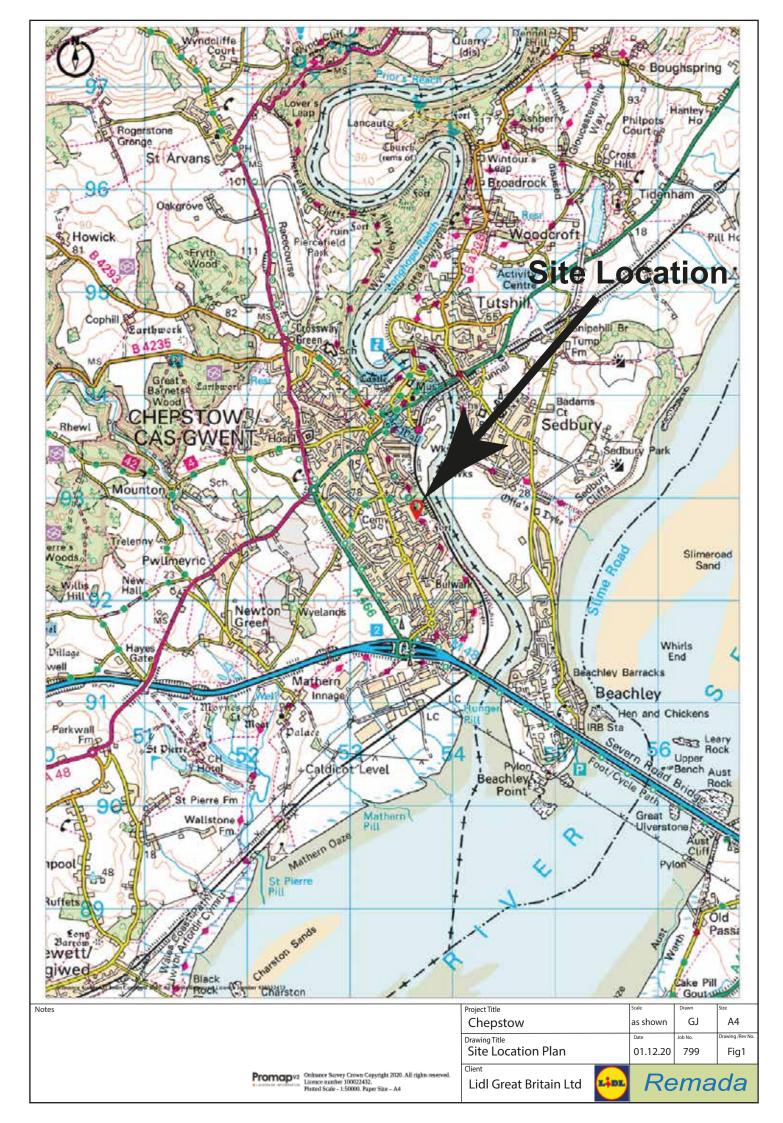
13. Unless otherwise stated, samples from the site (soil, groundwater, building fabric or other samples) have NOT been analysed or assessed for waste classification purposes.

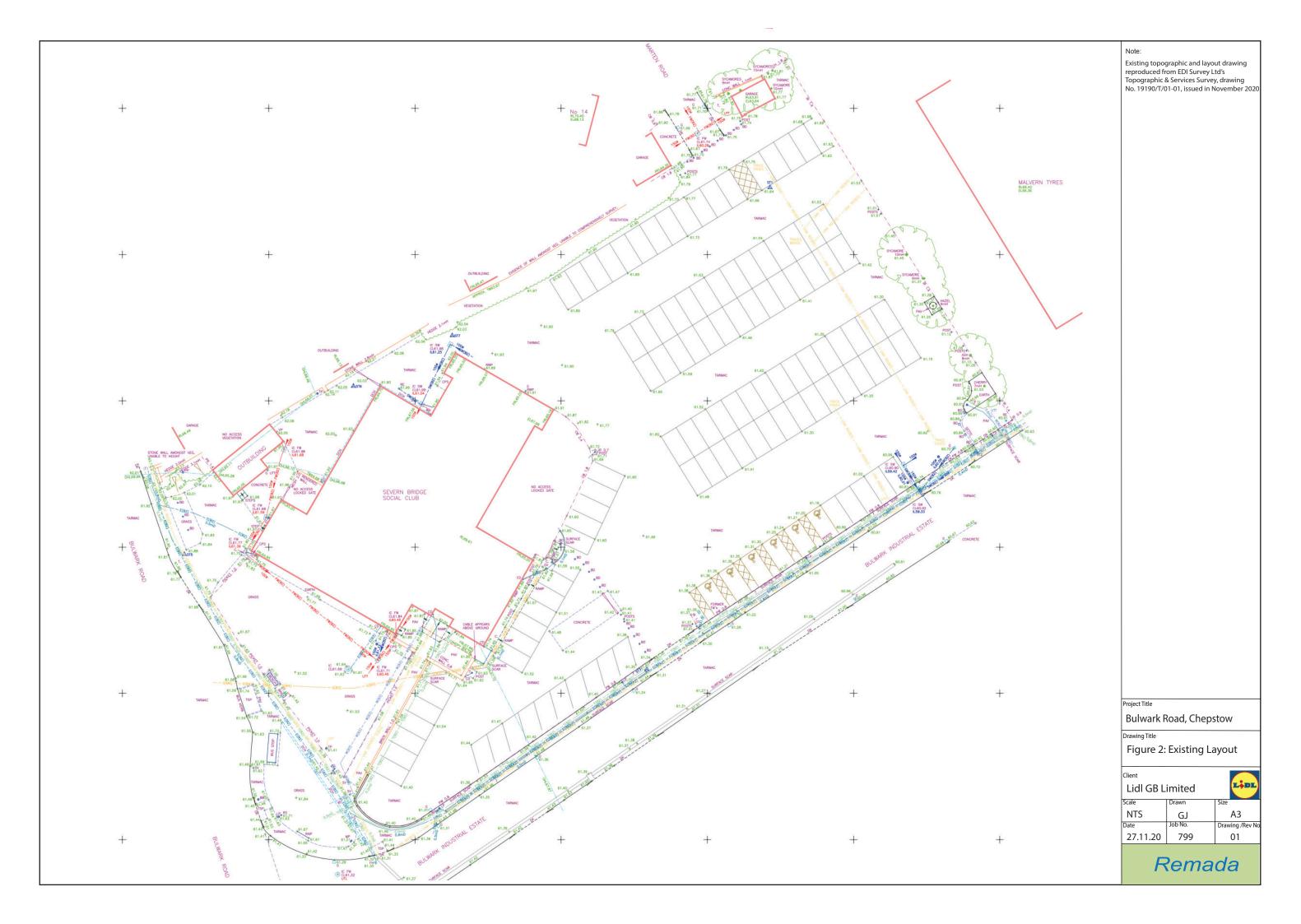


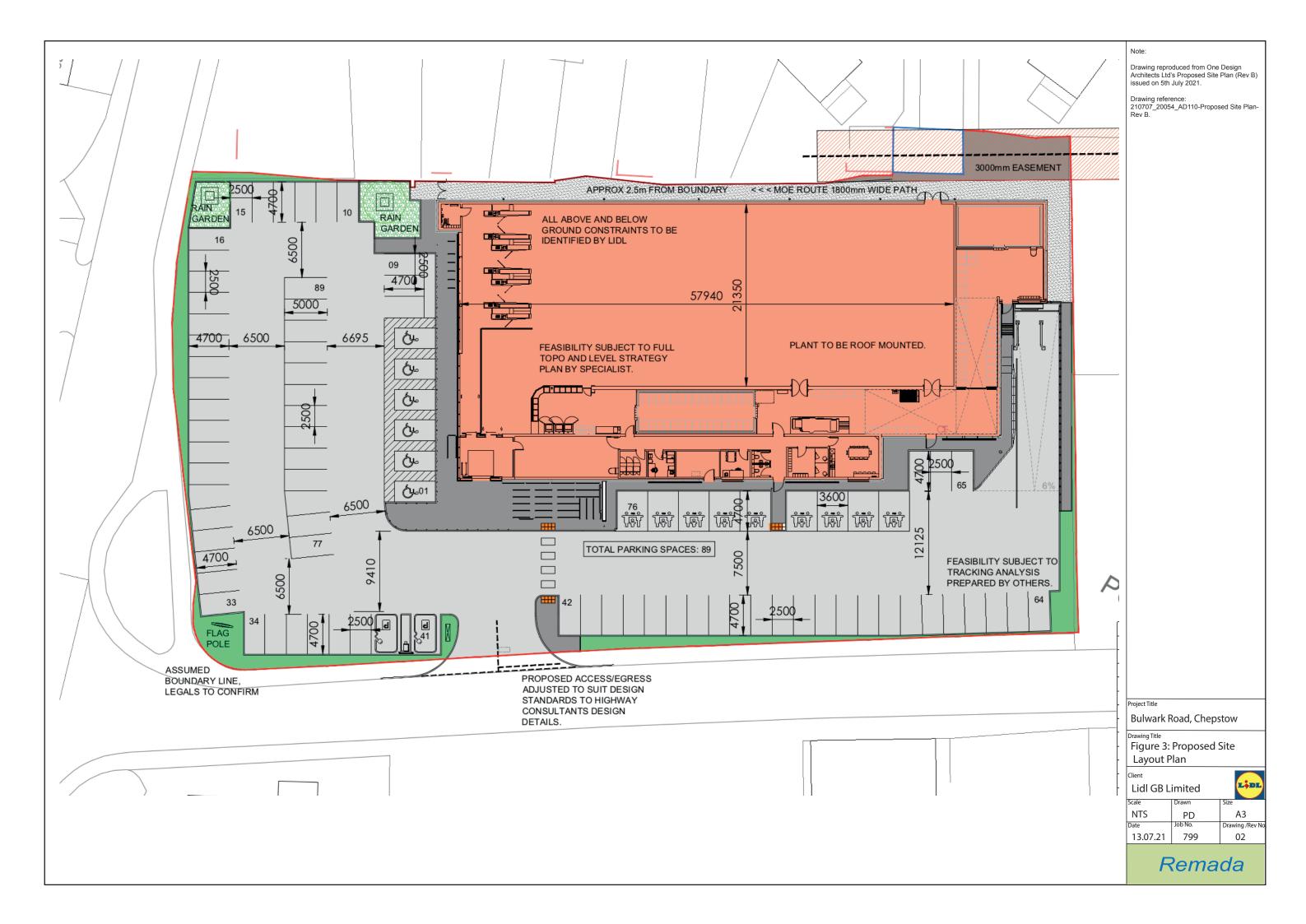


FIGURES

Figure 1 Site Location Plan Figure 2 Existing Site Layout Figure 3 Proposed Site Layout





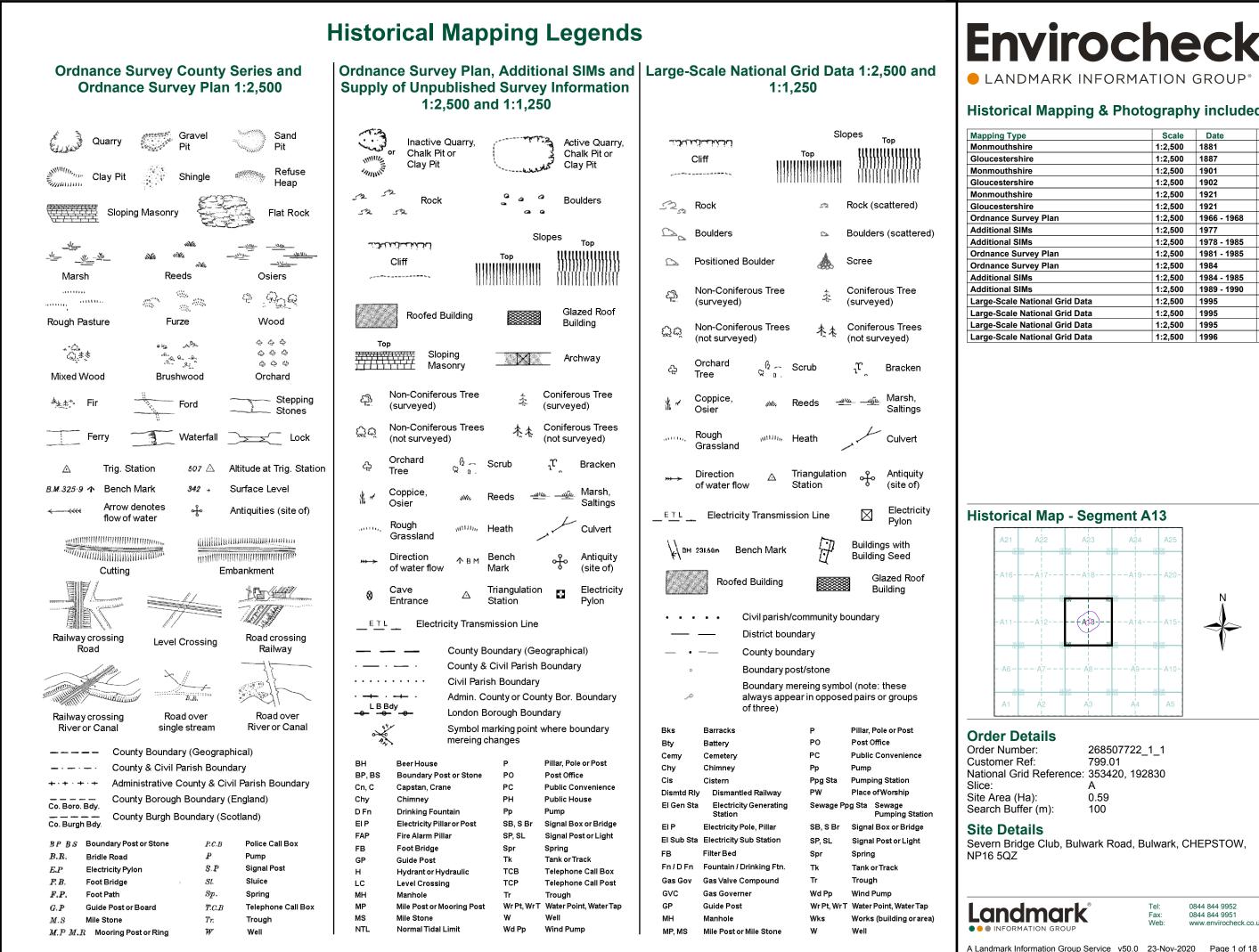






APPENDIX A

1:2500 & 1:10000 Scale Historical Mapping

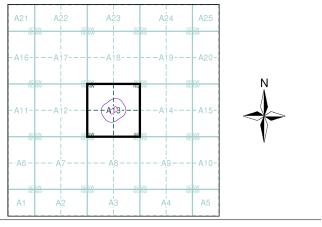


Envirocheck[®] LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1881	2
Gloucestershire	1:2,500	1887	3
Monmouthshire	1:2,500	1901	4
Gloucestershire	1:2,500	1902	5
Monmouthshire	1:2,500	1921	6
Gloucestershire	1:2,500	1921	7
Ordnance Survey Plan	1:2,500	1966 - 1968	8
Additional SIMs	1:2,500	1977	9
Additional SIMs	1:2,500	1978 - 1985	10
Ordnance Survey Plan	1:2,500	1981 - 1985	11
Ordnance Survey Plan	1:2,500	1984	12
Additional SIMs	1:2,500	1984 - 1985	13
Additional SIMs	1:2,500	1989 - 1990	14
Large-Scale National Grid Data	1:2,500	1995	15
Large-Scale National Grid Data	1:2,500	1995	16
Large-Scale National Grid Data	1:2,500	1995	17
Large-Scale National Grid Data	1:2,500	1996	18

Historical Map - Segment A13



Order Details

Order Number:	268507722_1_1
Customer Ref:	799.01
National Grid Reference:	353420, 192830
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	100

Site Details

Severn Bridge Club, Bulwark Road, Bulwark, CHEPSTOW, NP16 5QZ

Tel

Fax:

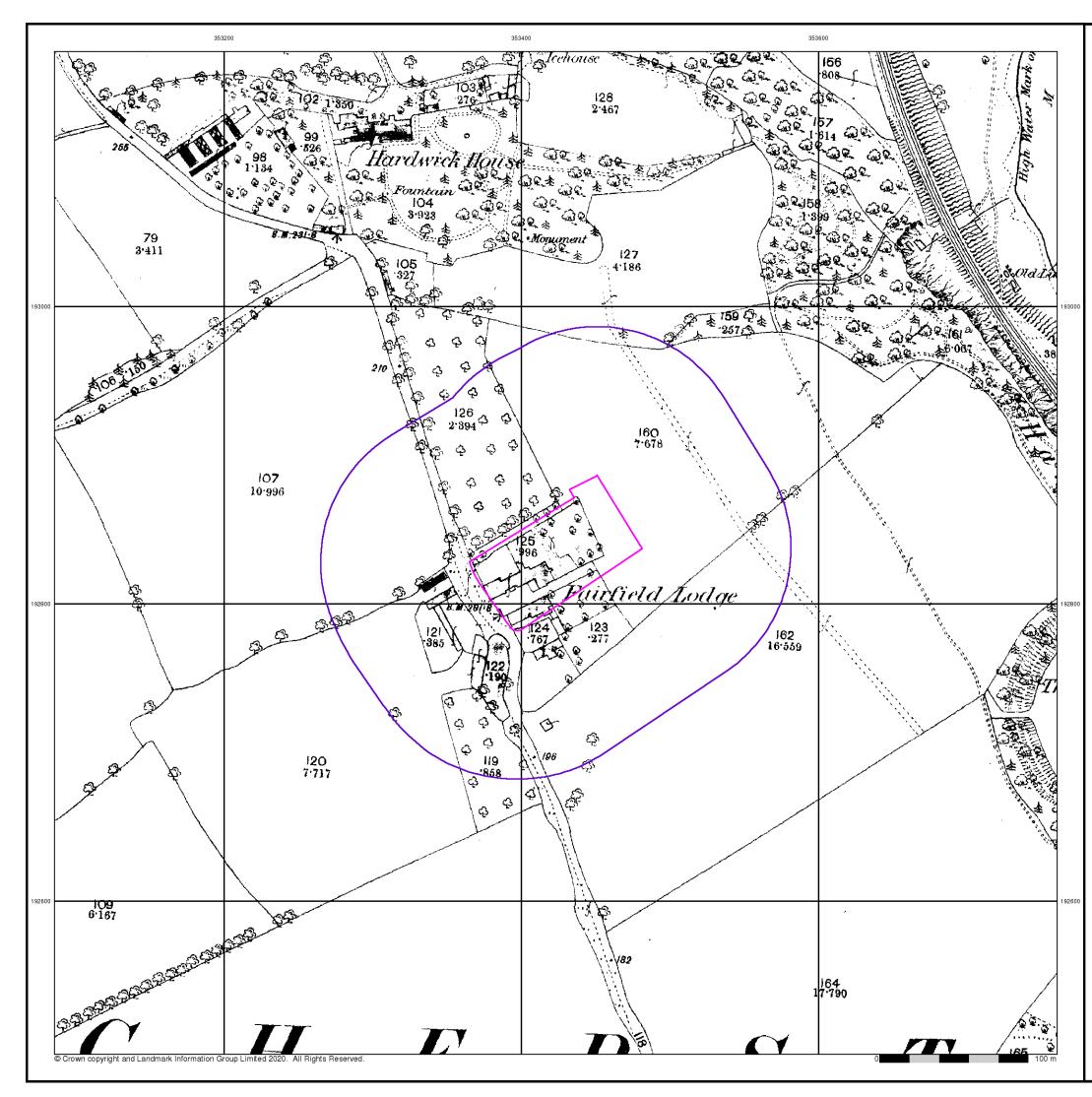
Web:

0844 844 9952

0844 844 9951

www.envirocheck.co.uk





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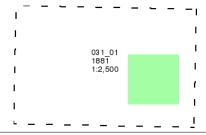
Monmouthshire

Published 1881

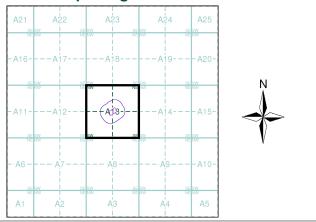
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

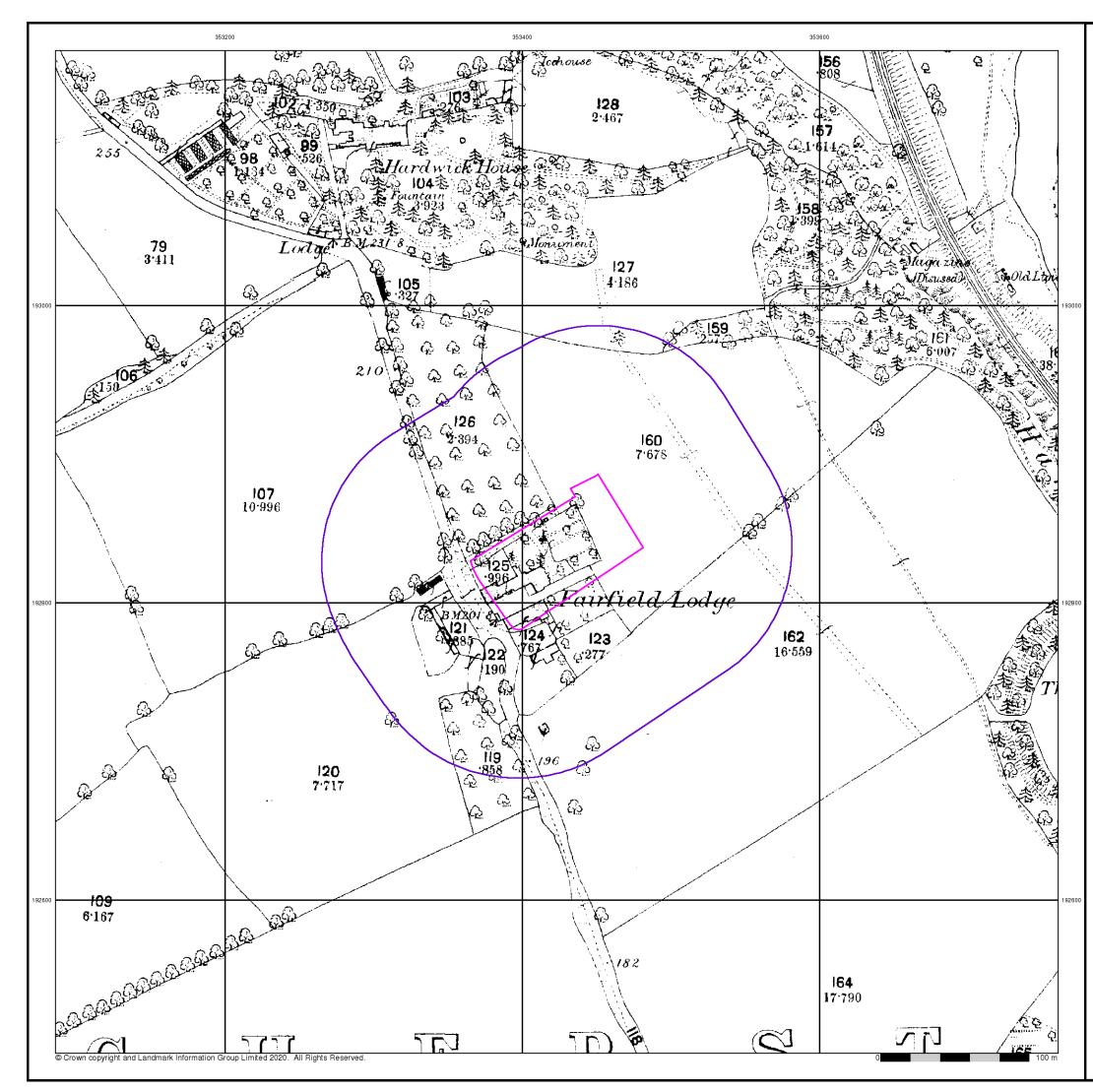
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Search Buffer (m):	100

Site Details

Severn Bridge Club, Bulwark Road, Bulwark, CHEPSTOW, NP16 5QZ



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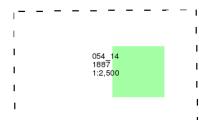
Gloucestershire

Published 1887

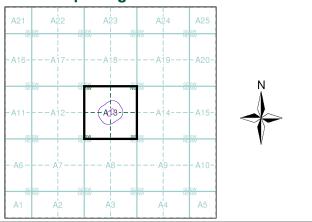
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	268507722_1_1
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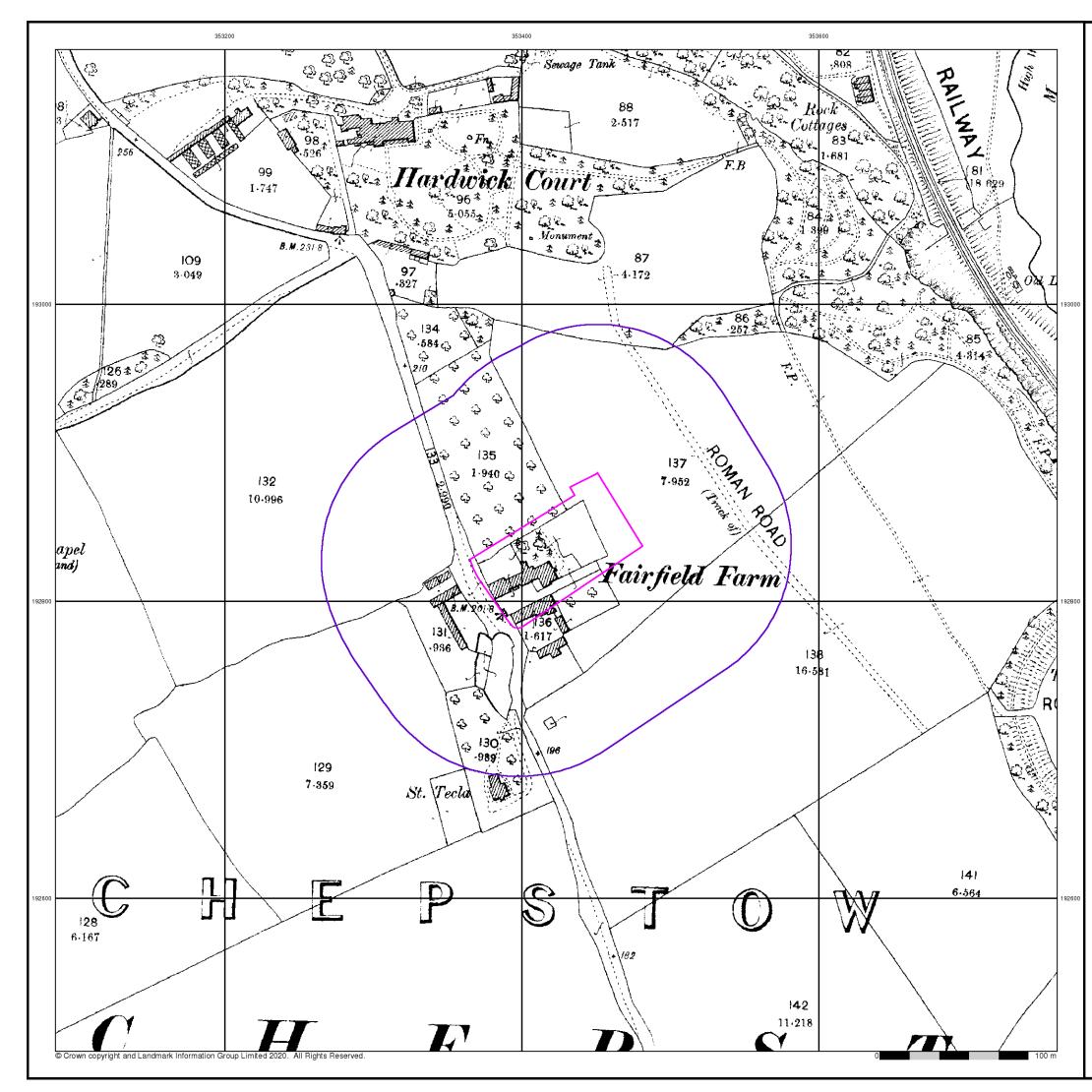
Severn Bridge Club, Bulwark Road, Bulwark, CHEPSTOW, NP16 5QZ



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Monmouthshire

Published 1901

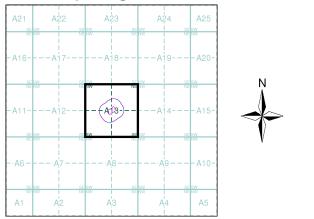
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

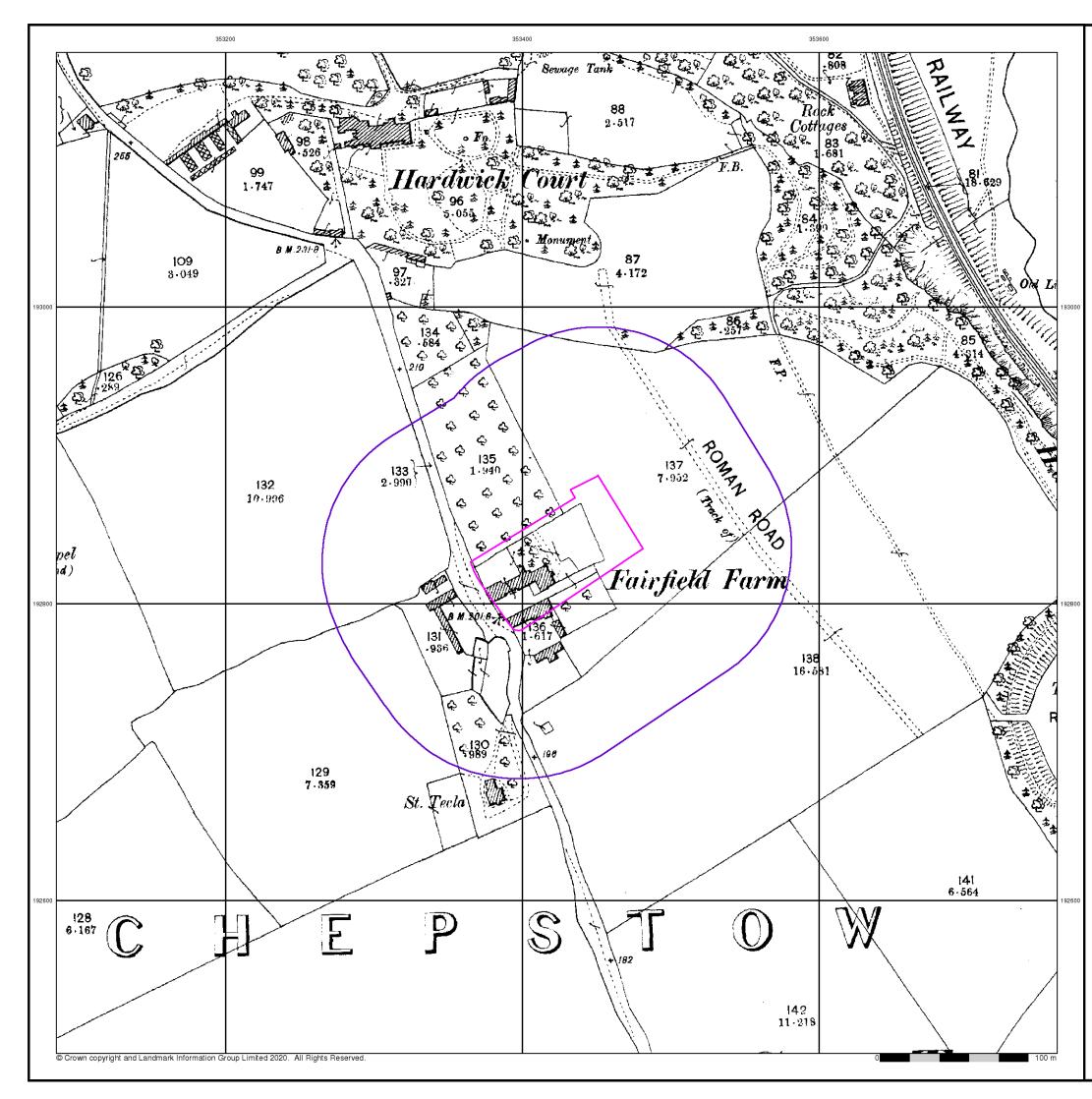
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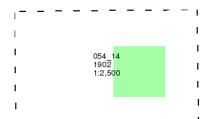
Gloucestershire

Published 1902

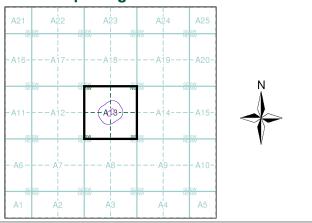
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Map Name(s) and Date(s)



Historical Map - Segment A13



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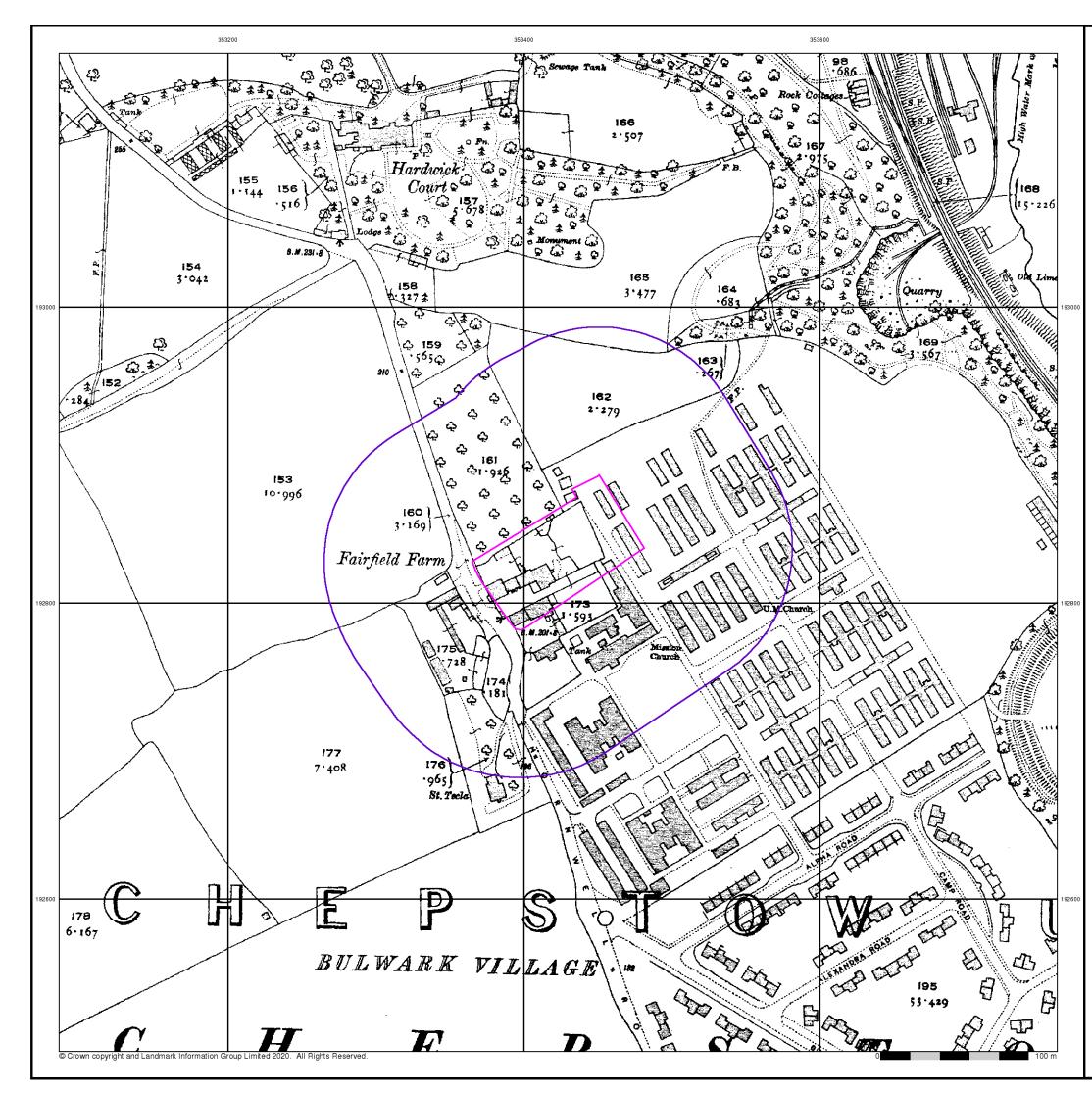
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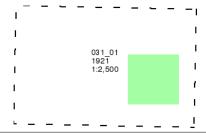
Monmouthshire

Published 1921

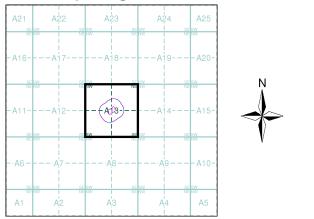
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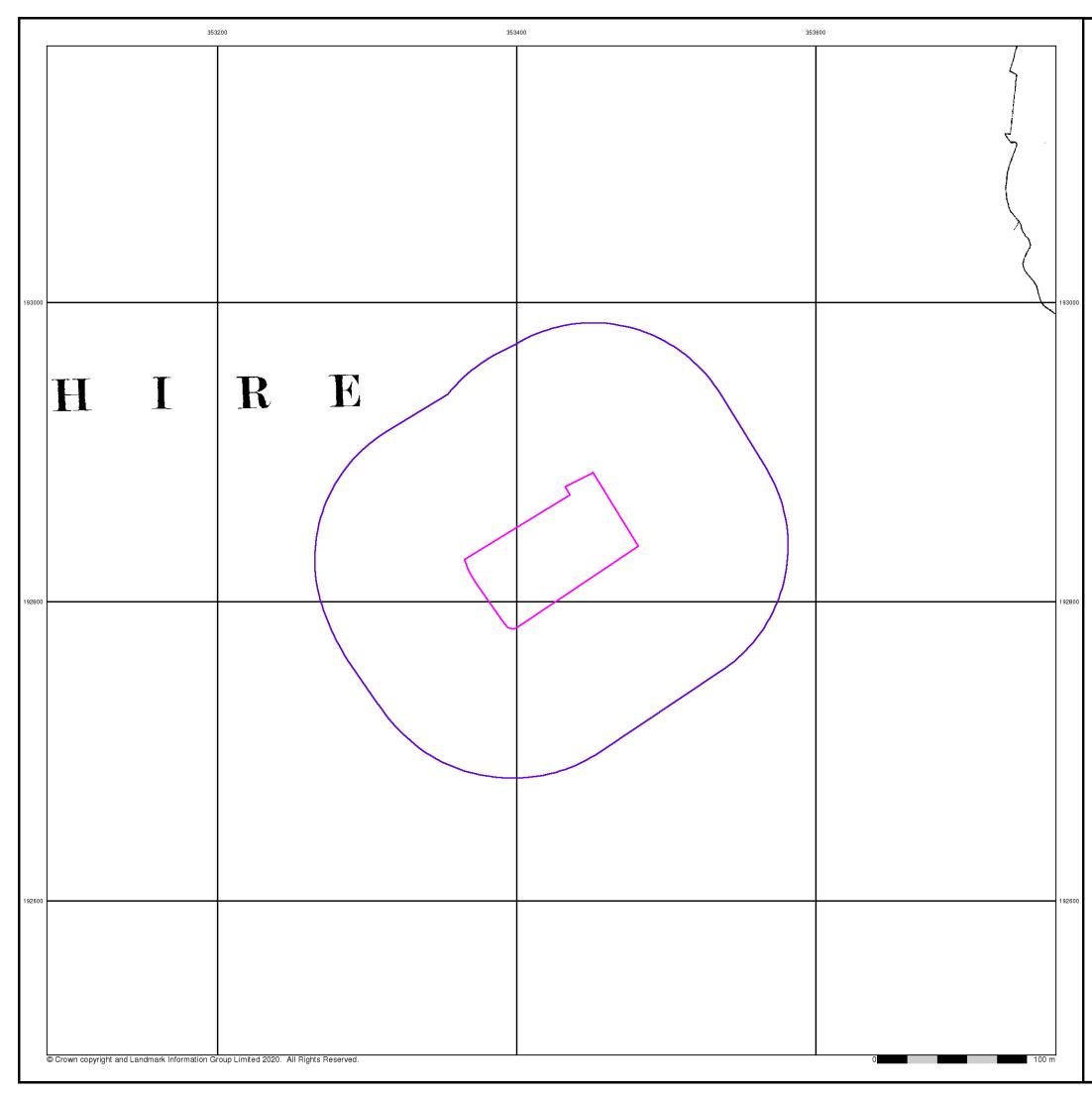
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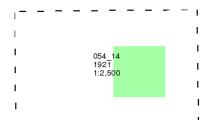
Gloucestershire

Published 1921

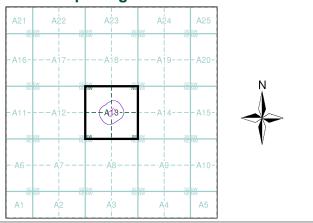
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Map Name(s) and Date(s)



Historical Map - Segment A13



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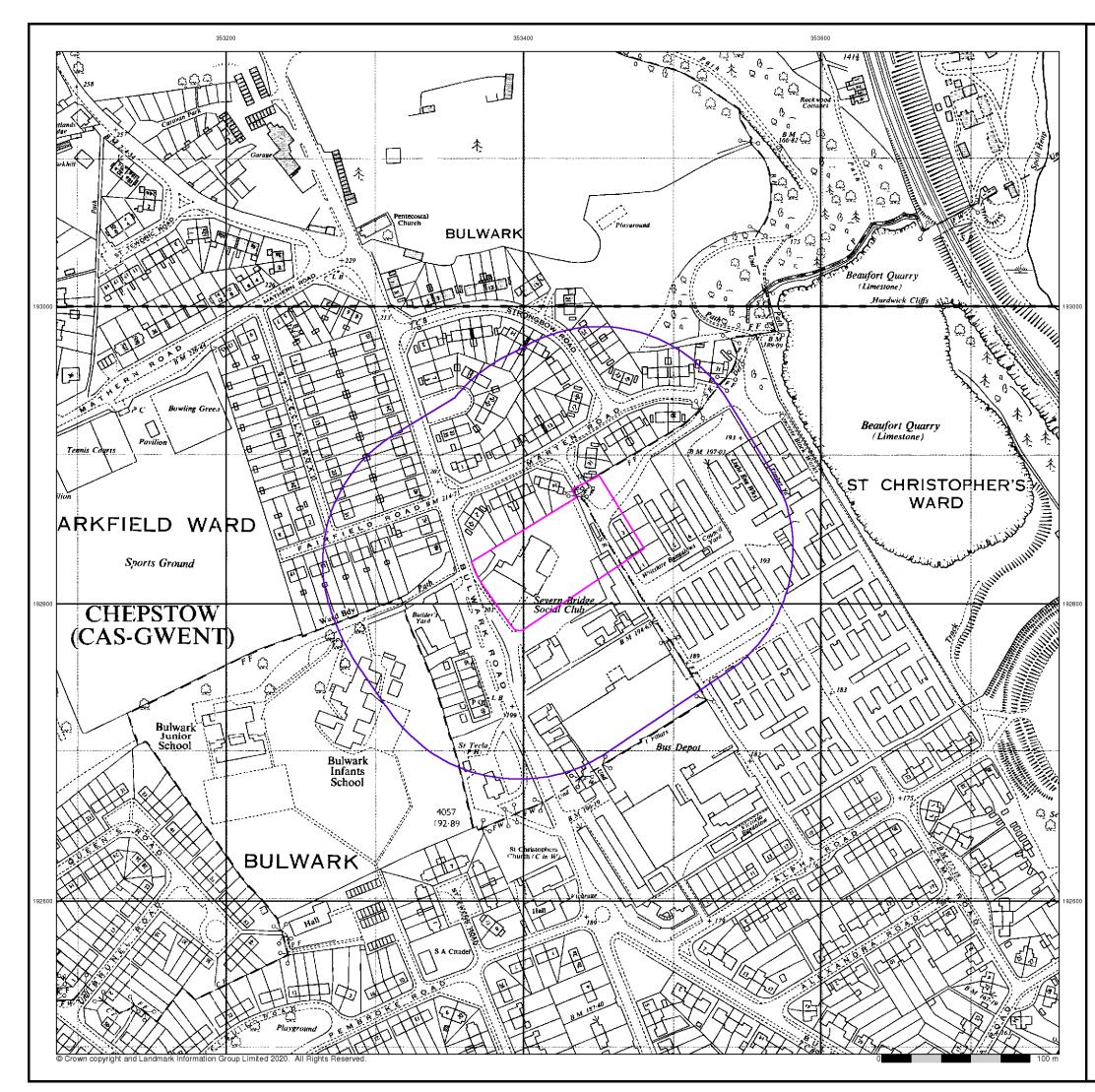
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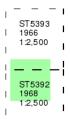
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Ordnance Survey Plan Published 1966 - 1968

Source map scale - 1:2,500

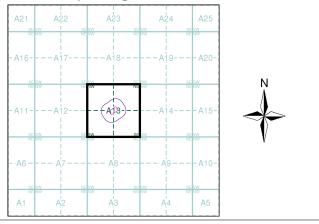
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Historical Map - Segment A13



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Site Details

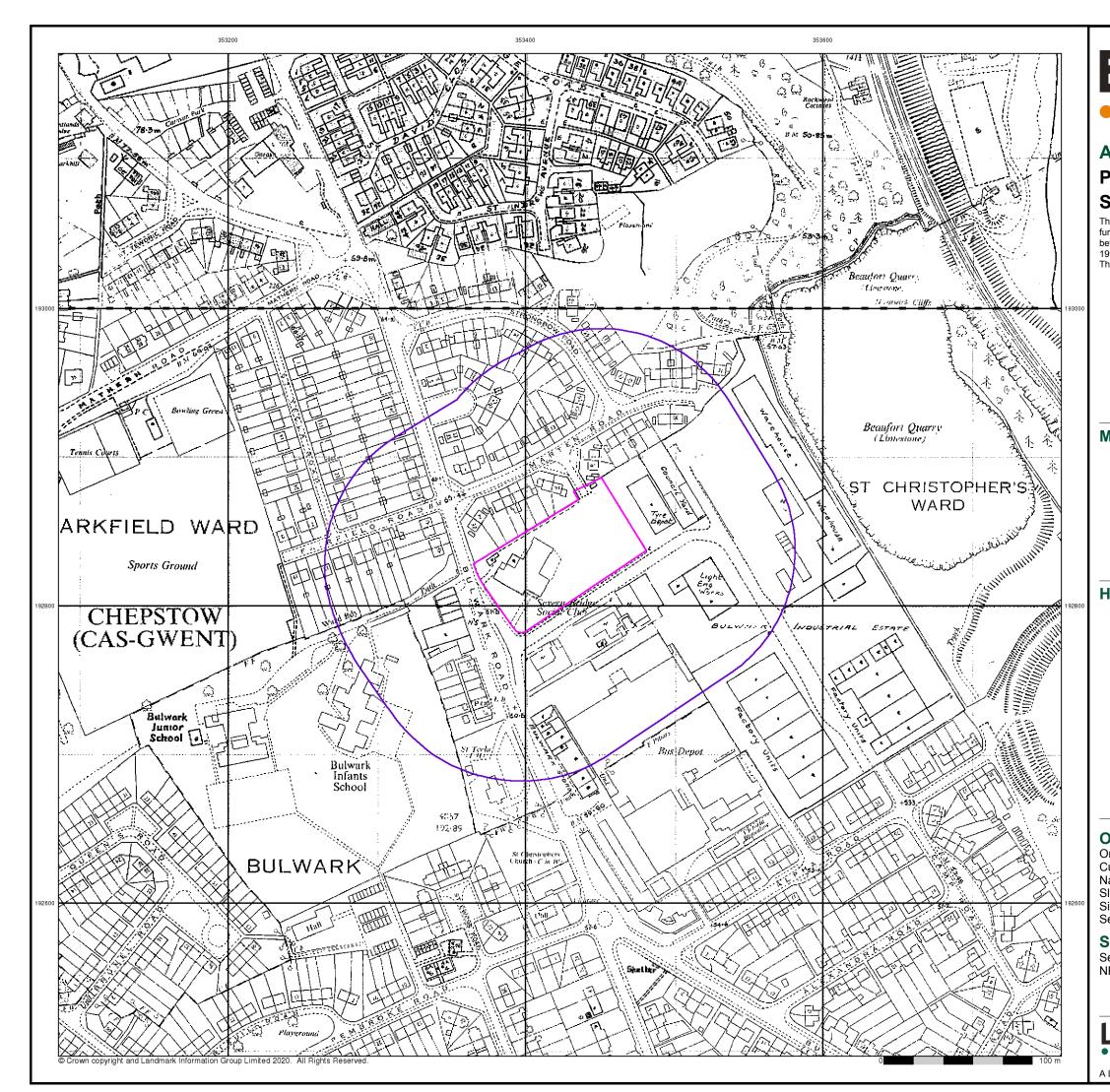
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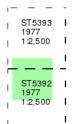
Additional SIMs

Published 1977

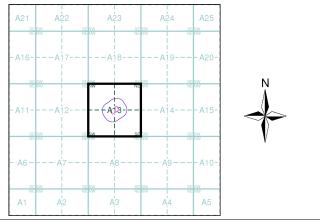
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The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information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

Map Name(s) and Date(s)



Historical Map - Segment A13



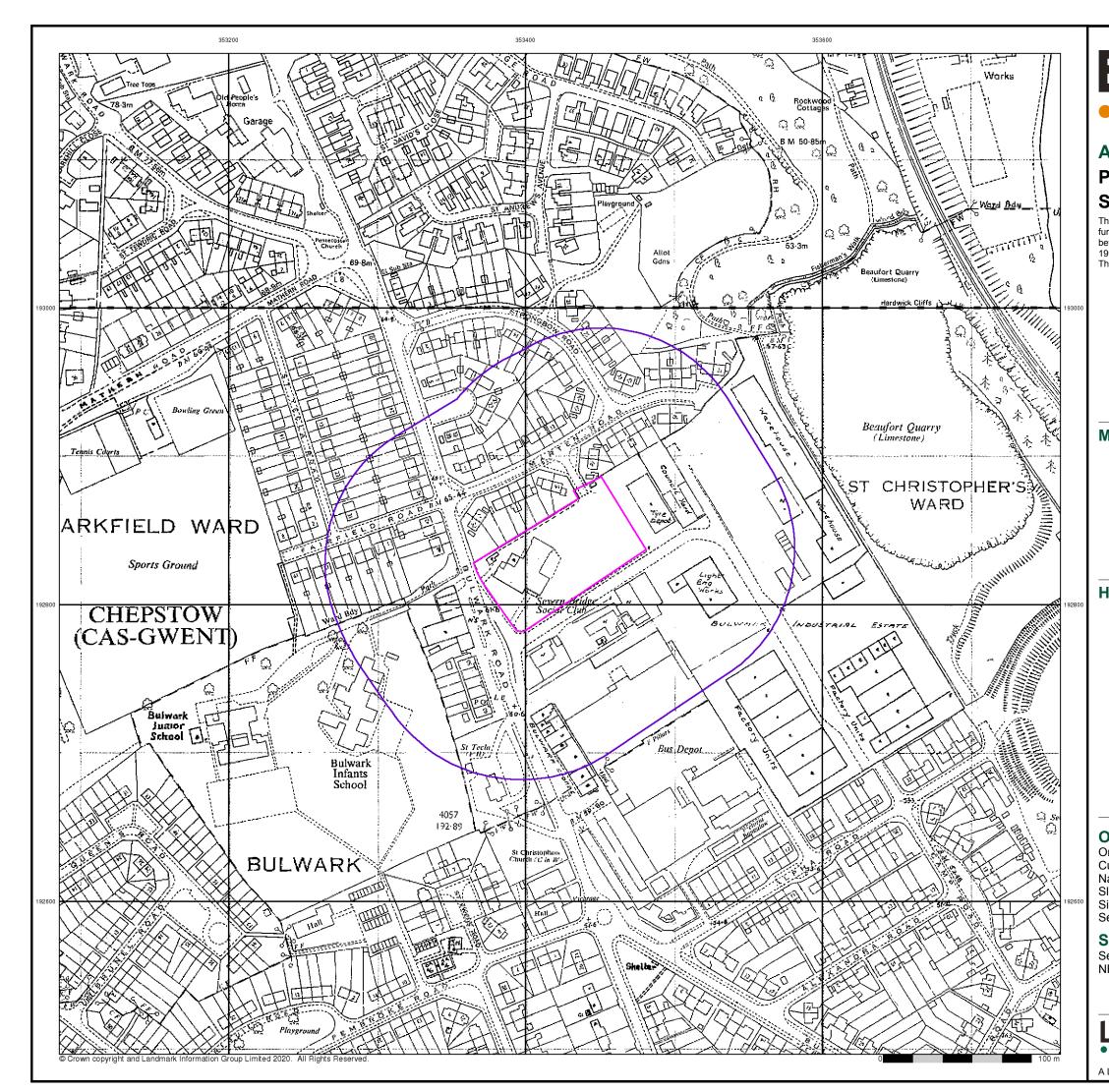
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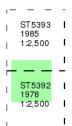
Additional SIMs

Published 1978 - 1985

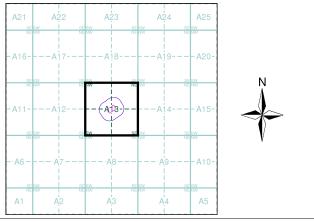
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