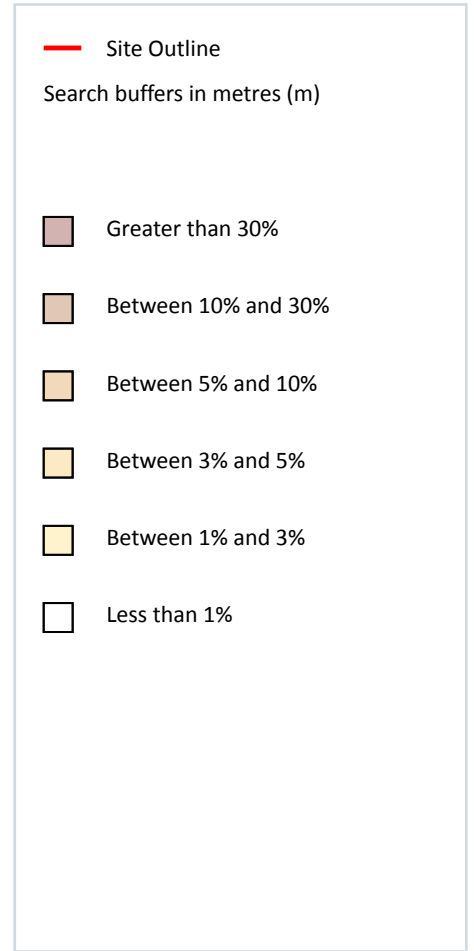
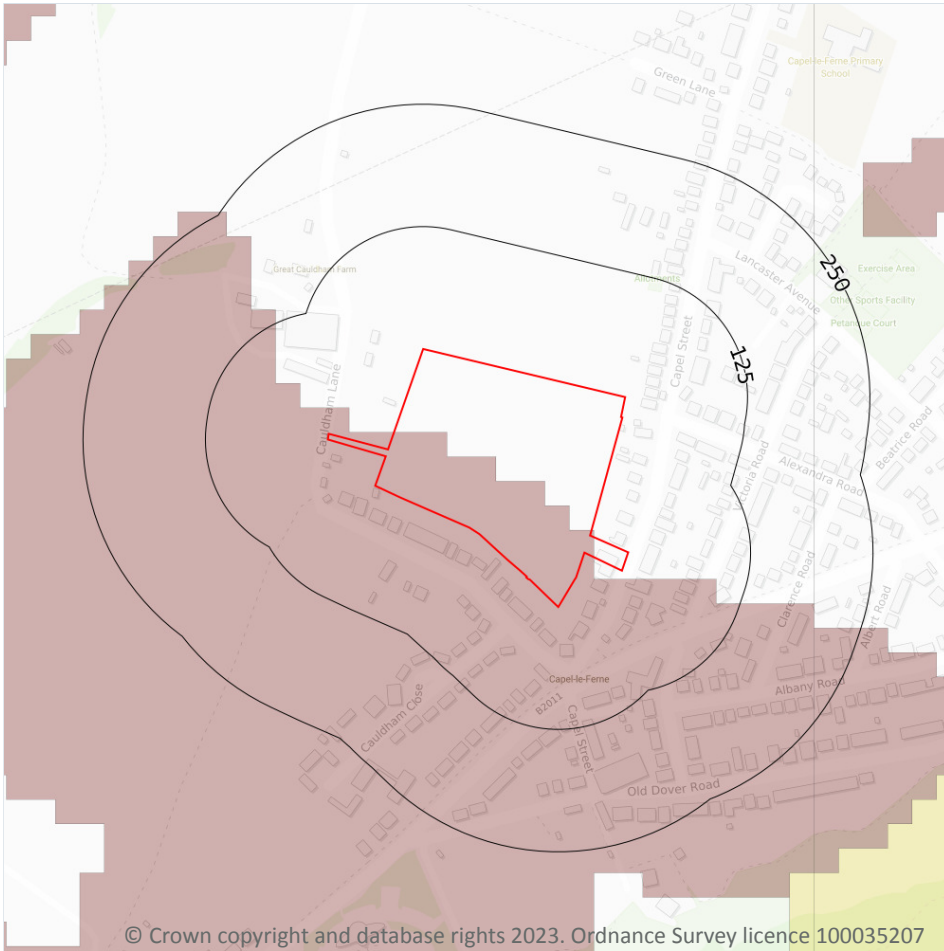


The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

2

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 106 >](#)

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



Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

5

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

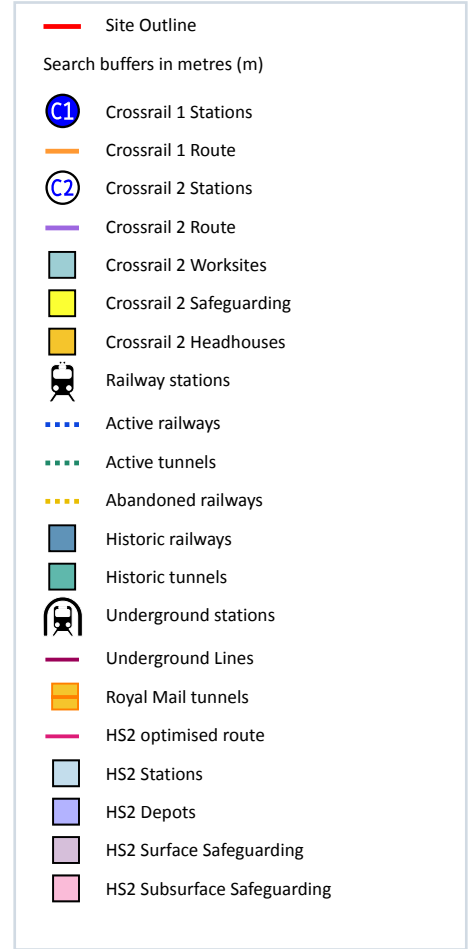
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on [page 109 >](#)

Location	Type
190m NW	Railway Tunnel

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

6

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

Features are displayed on the Railway infrastructure and projects map on [page 109 >](#)

Location	Land Use	Year of mapping	Mapping scale
170m NW	Tunnel	1992	2500
170m NW	Tunnel	1993	2500
173m NW	Tunnel	1993	10000
215m N	Tunnel	1992	2500
215m N	Tunnel	1994	2500
215m N	Tunnel	1993	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

2

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

Features are displayed on the Railway infrastructure and projects map on [page 109](#) >

Location	Name	Type
176m NW	Tunnel sous la Manche / Channel Tunnel ☒ Tunnel Ferroviaire Sud / Running Tunnel South	rail
206m NW	Tunnel sous la Manche / Channel Tunnel ☒ Tunnel Ferroviaire Nord / Running Tunnel North	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/> ↗.



Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: County Series

Map date: 1872

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1872
Revised 1872
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
www.groundsure.com

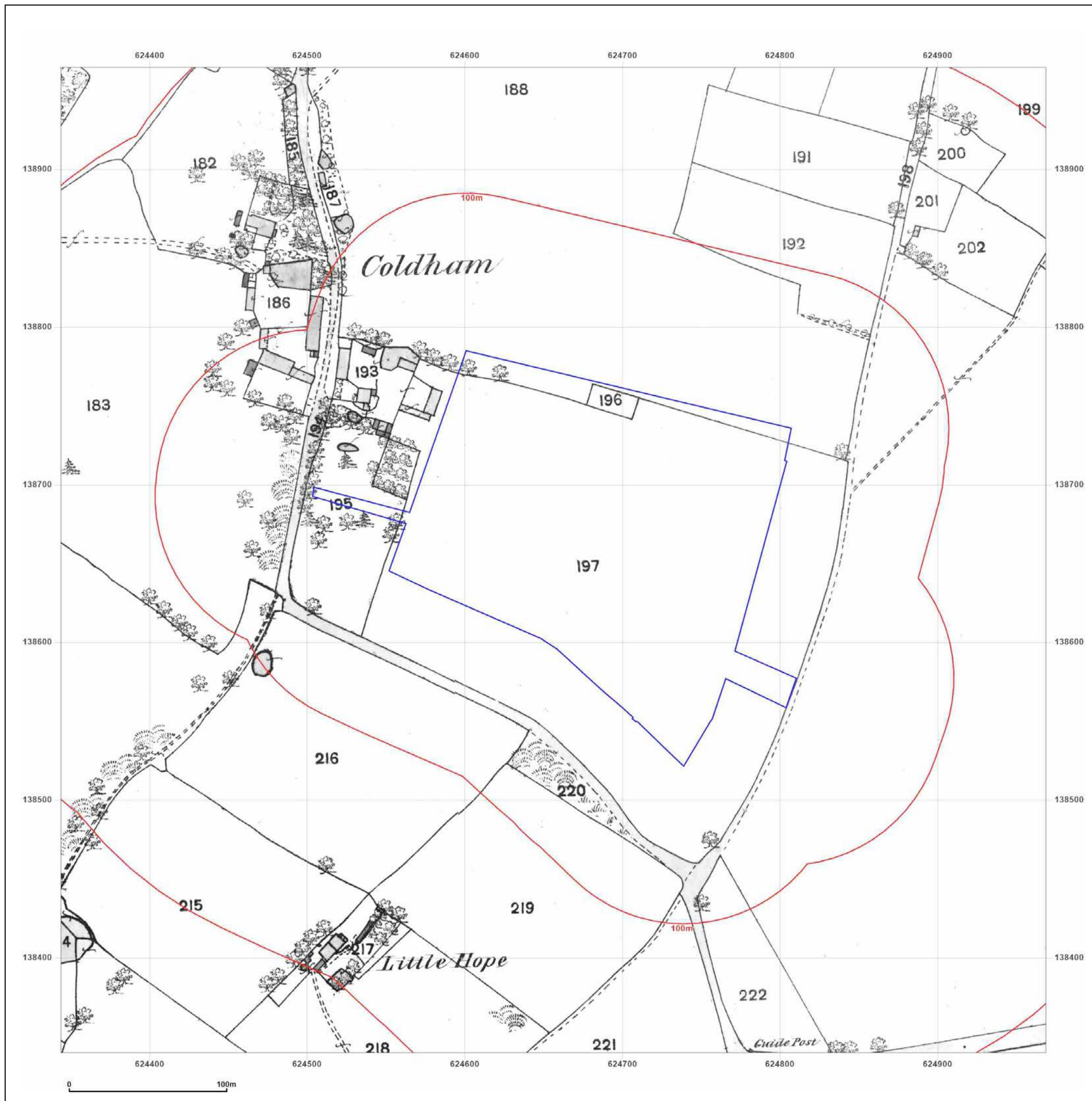


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: County Series

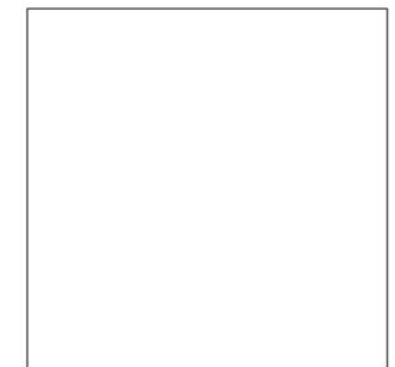
Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1898
 Revised 1898
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: County Series

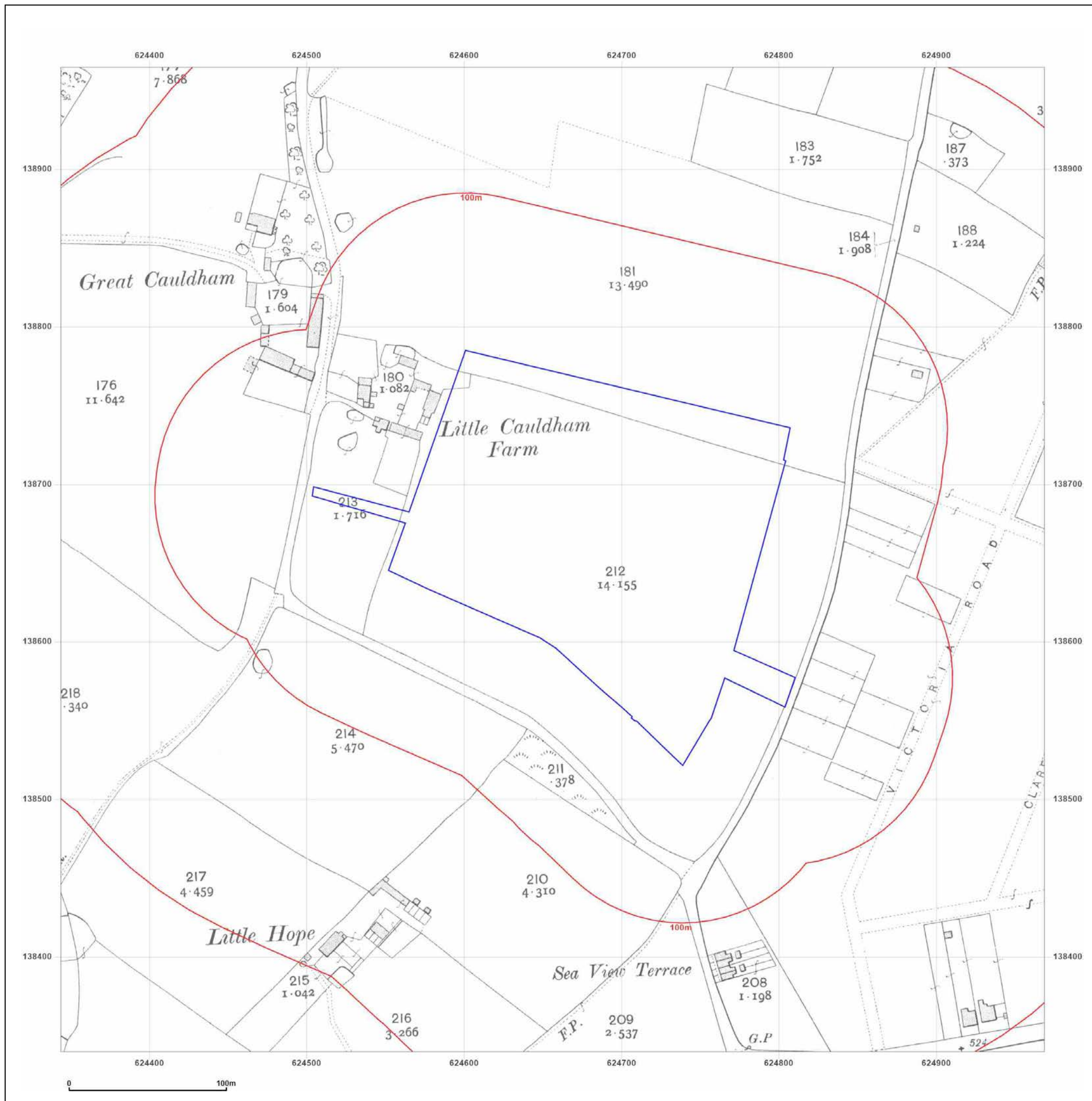
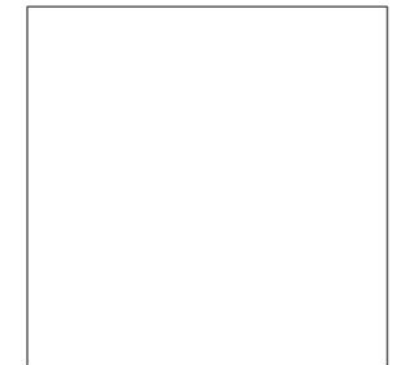
Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907
 Revised 1907
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: County Series

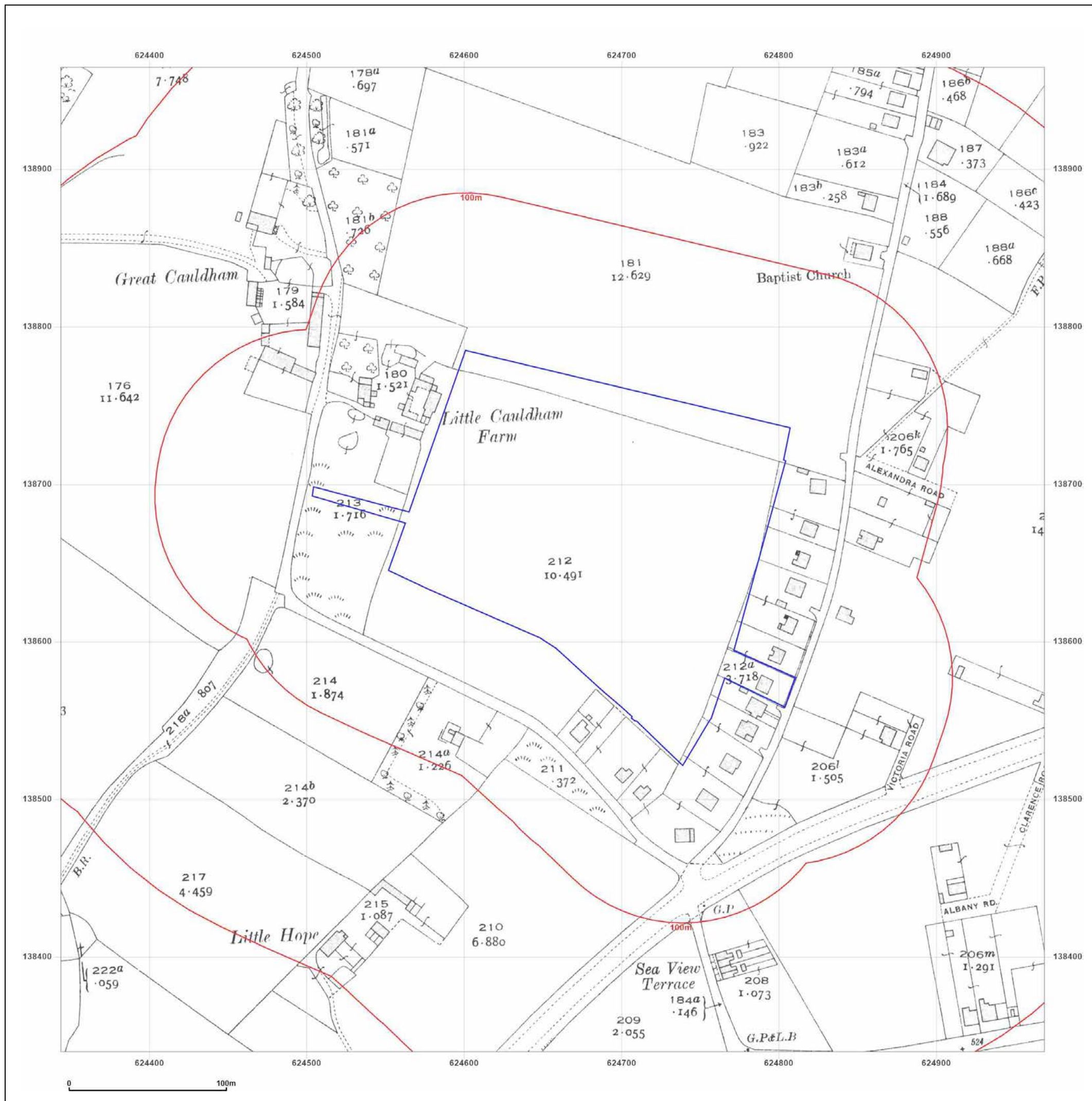
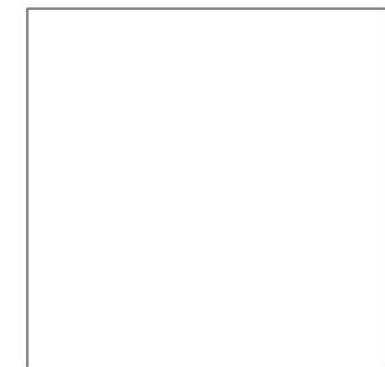
Map date: 1933

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1933
 Revised 1933
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: County Series

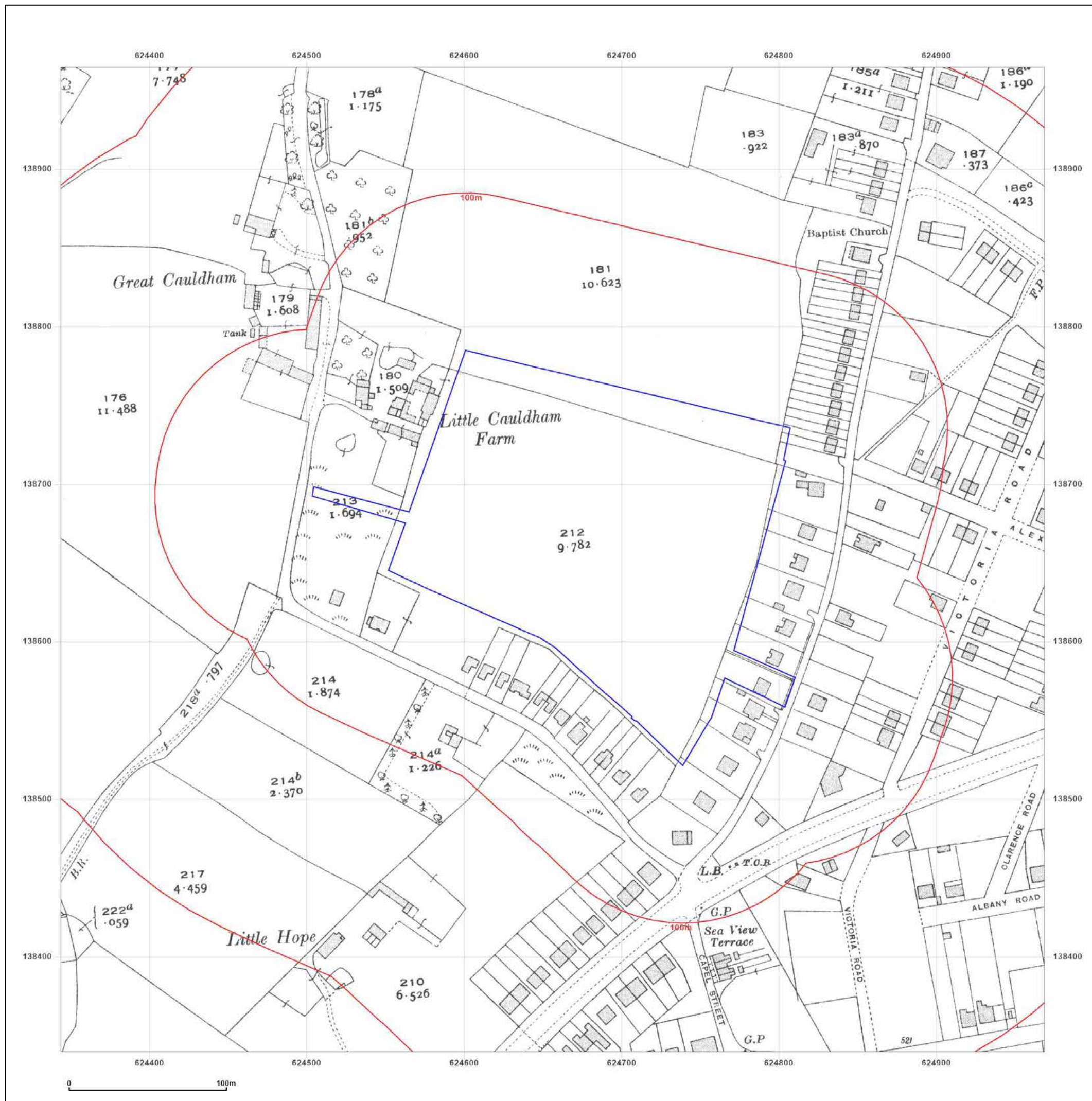
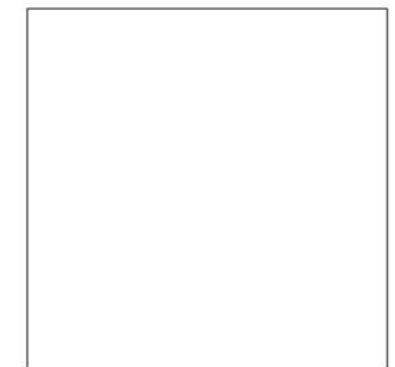
Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
 Revised 1937
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

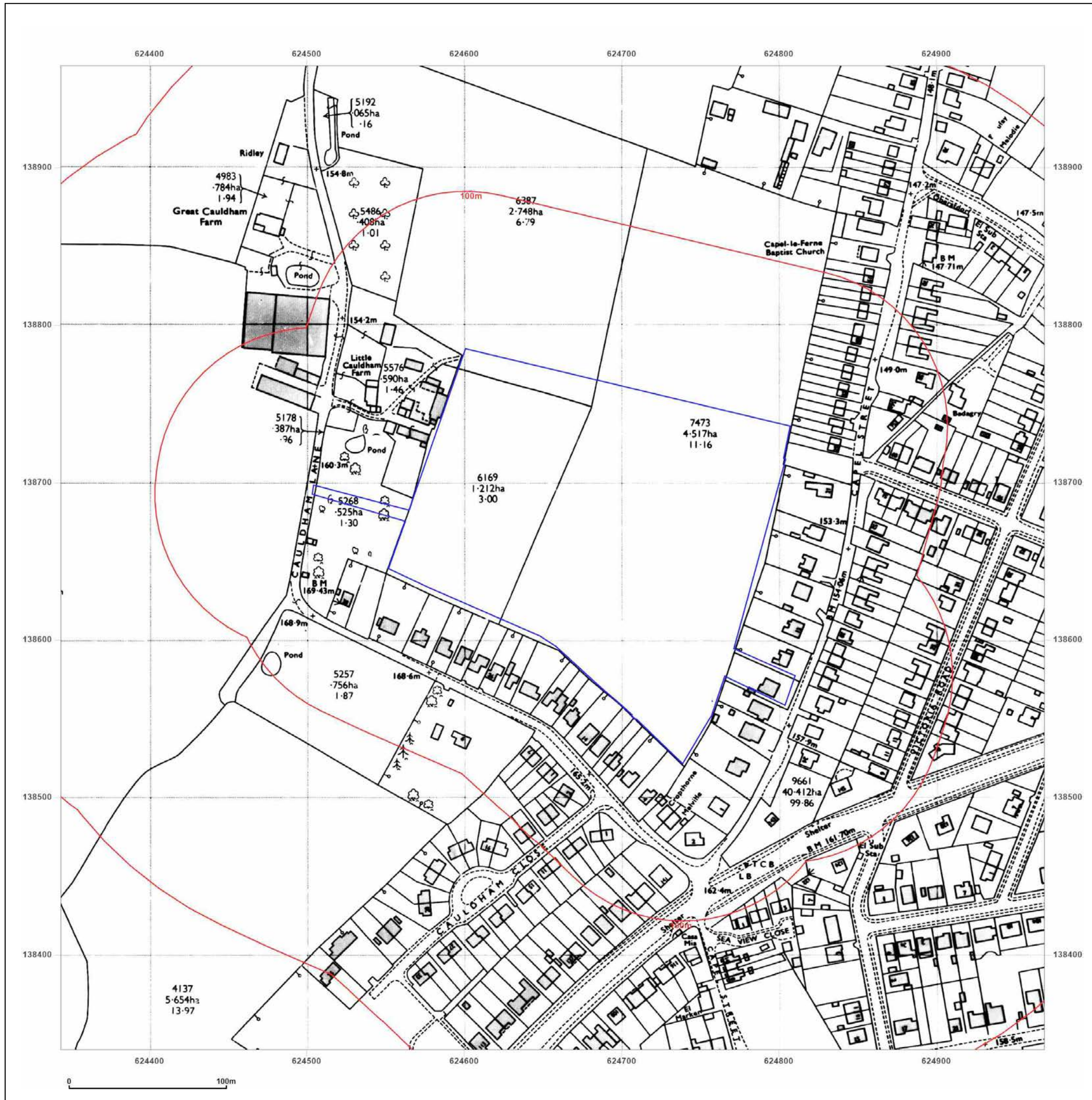


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



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



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1975

Scale: 1:2,500

Printed at: 1:2,500



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



Produced by
 Groundsure Insights
www.groundsure.com

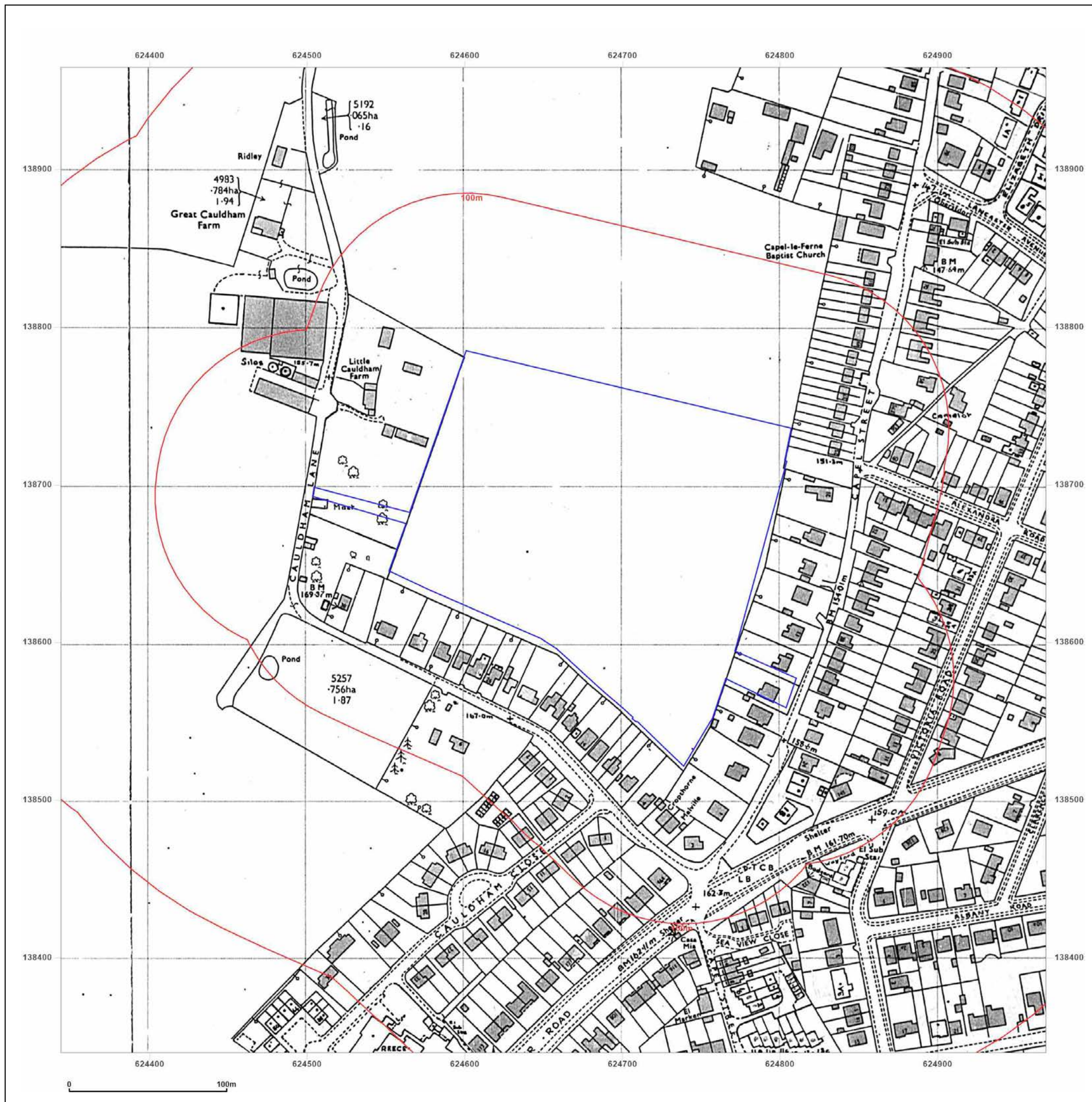


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1979

Scale: 1:2,500

Printed at: 1:2,500



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



Produced by
 Groundsure Insights
www.groundsure.com

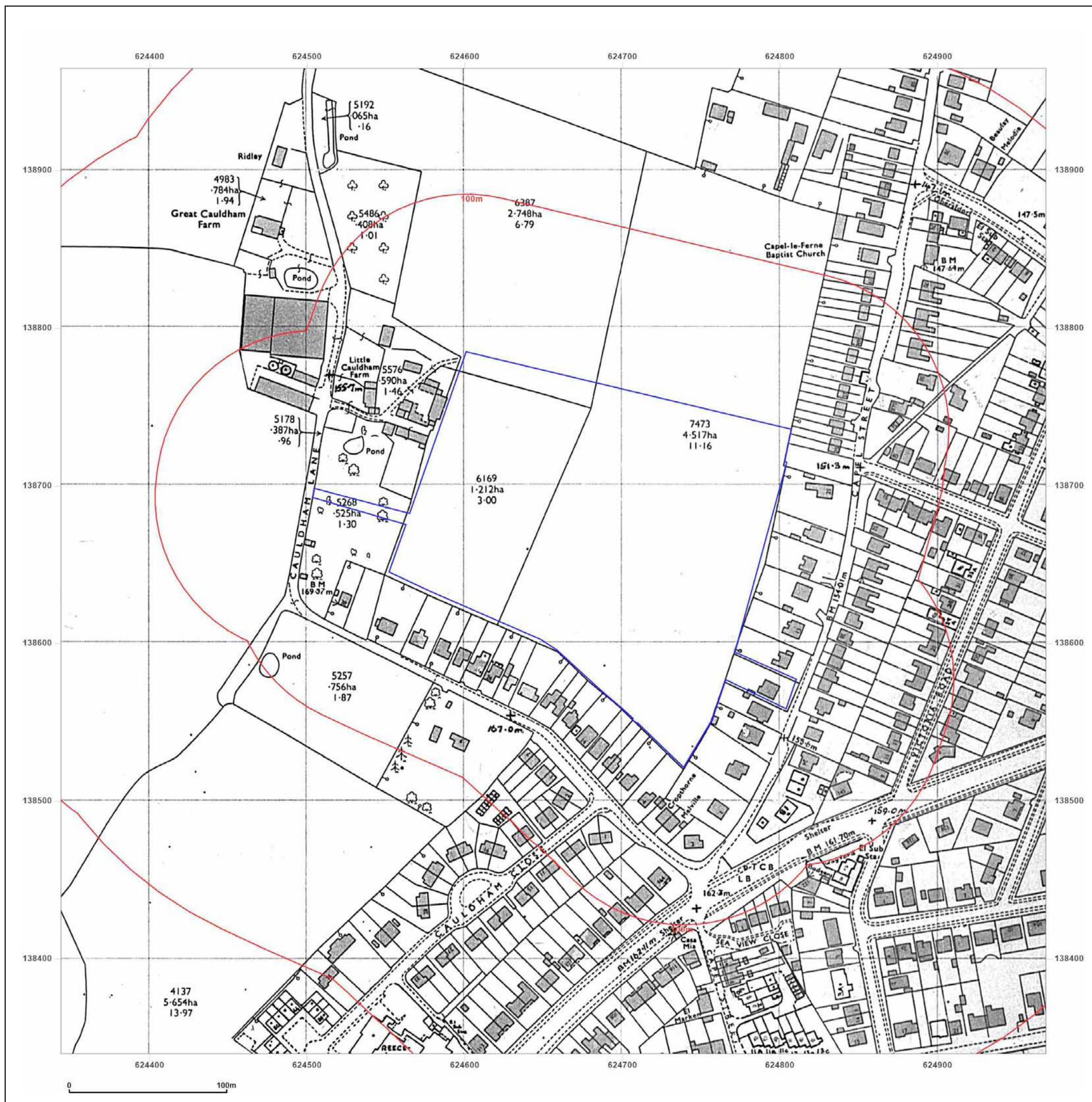


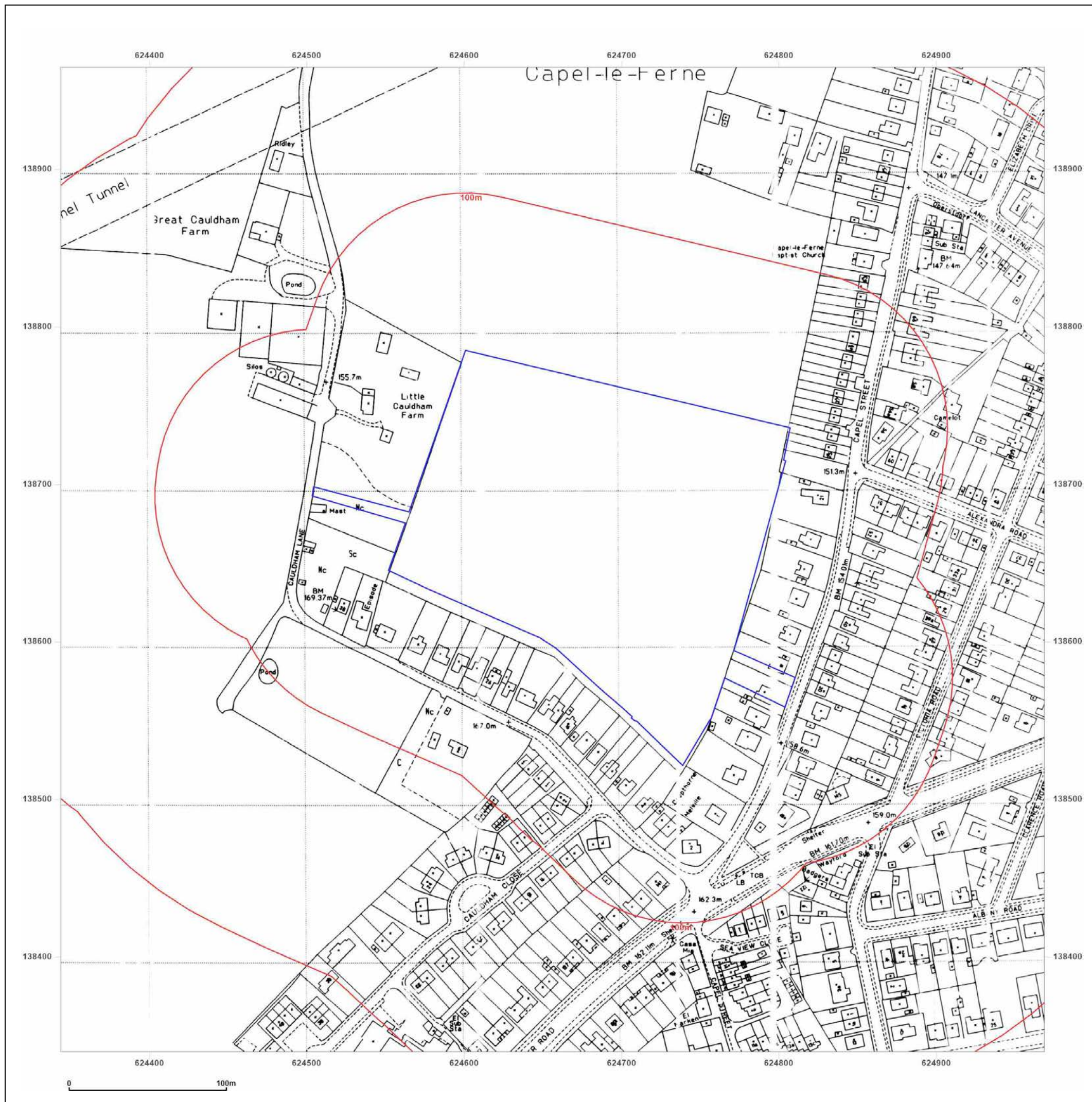
Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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





EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



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



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

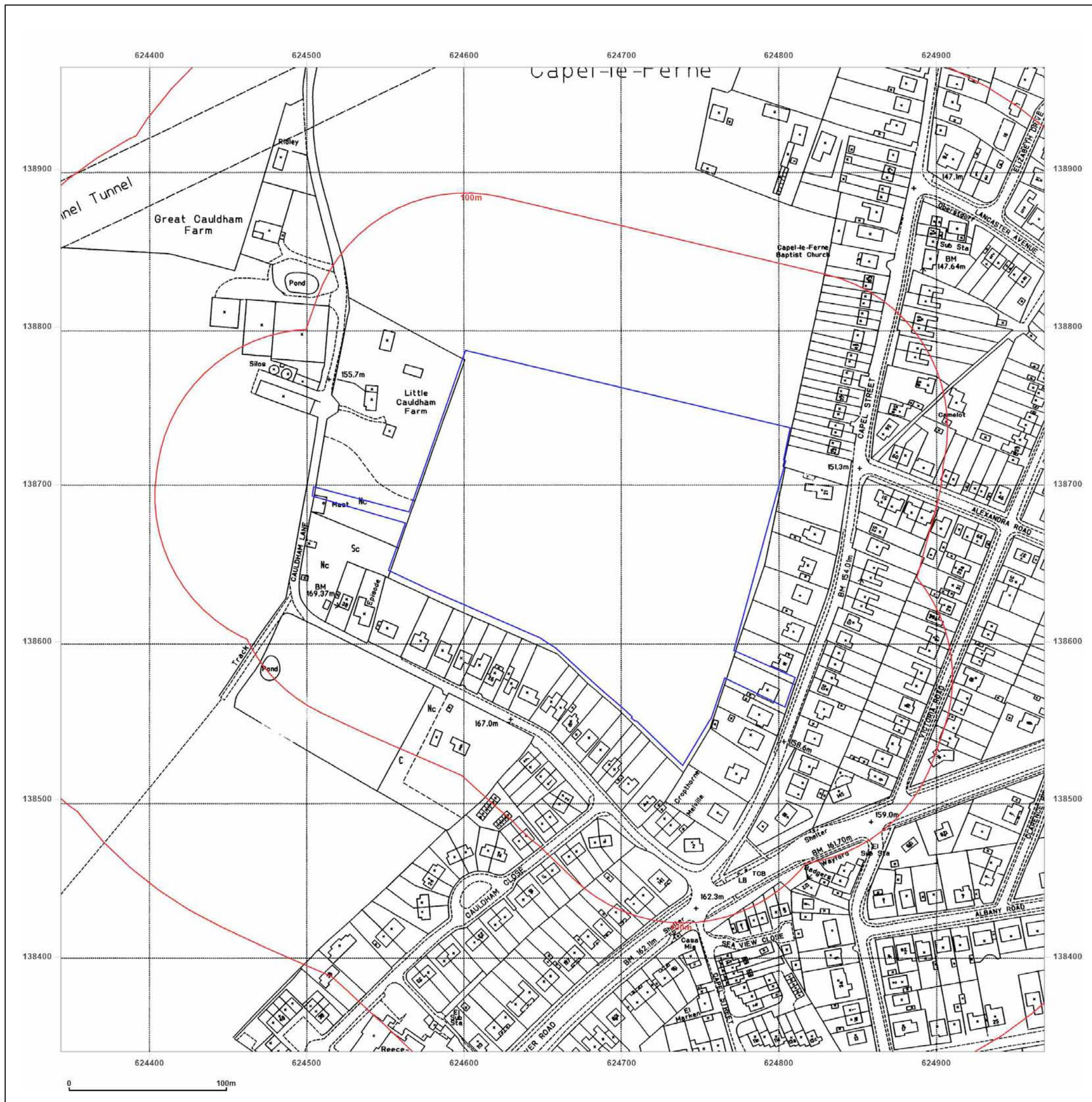


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997_2500
Grid Ref: 624656, 138652

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
 Revised 1993
 Edition N/A
 Copyright 1993
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

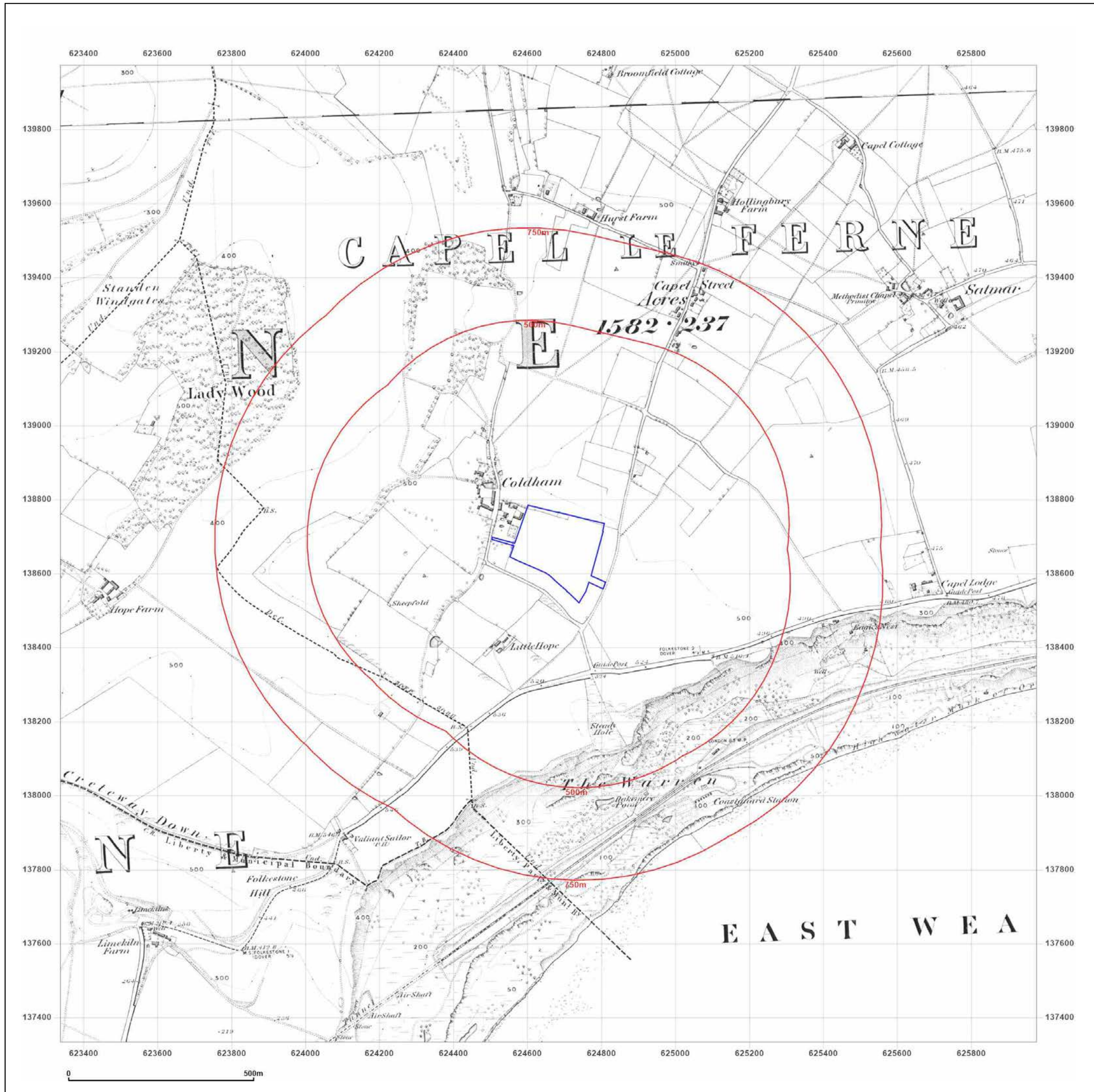


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

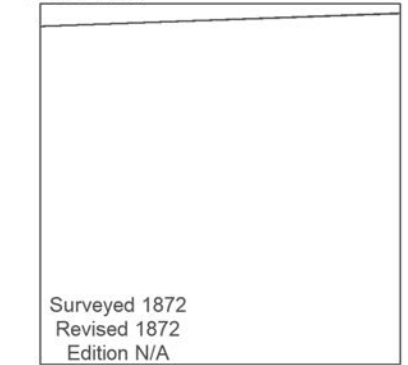
Map date: 1872-1873

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1873
 Revised 1873
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1872
 Revised 1872
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

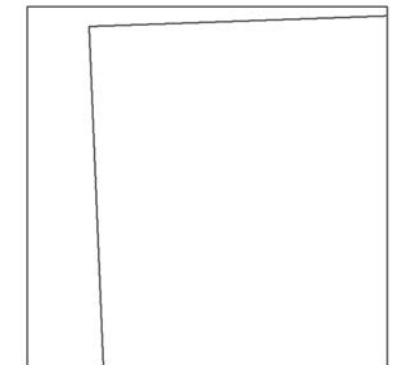
Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1889

Scale: 1:10,560

Printed at: 1:10,560



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



Produced by
 Groundsure Insights
www.groundsure.com

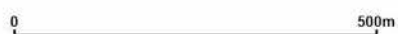
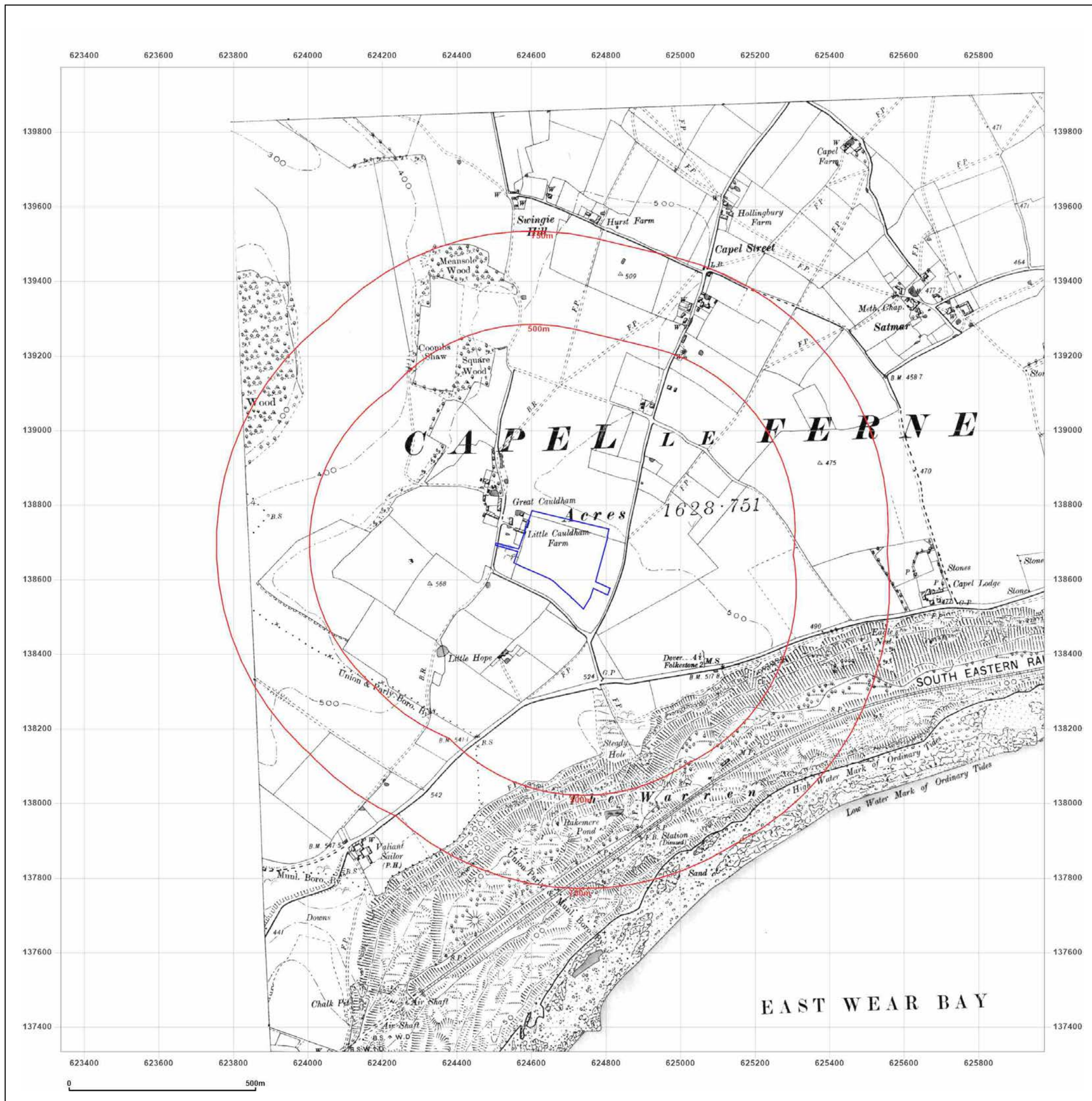


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1896-1897

Scale: 1:10,560

Printed at: 1:10,560

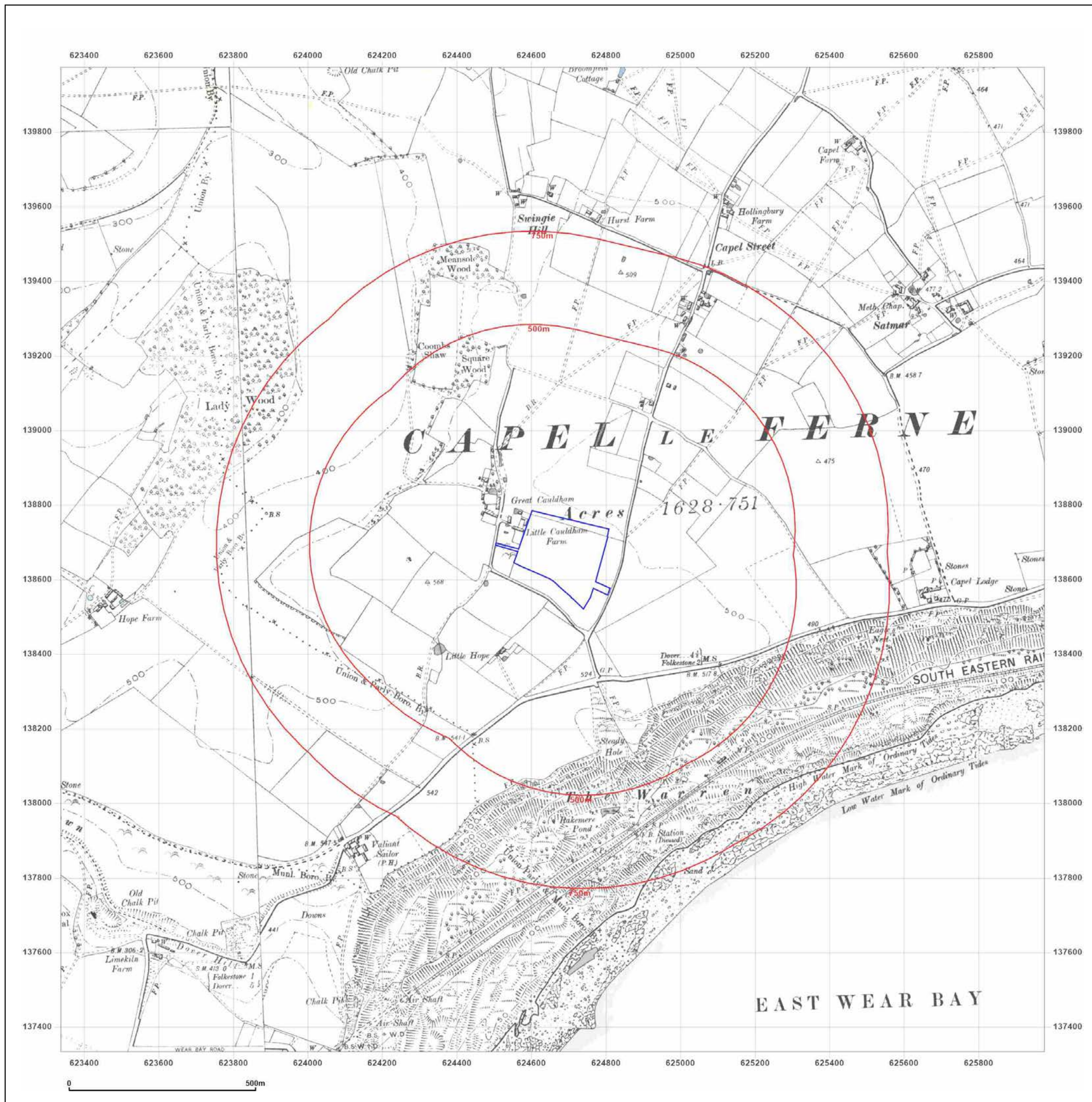
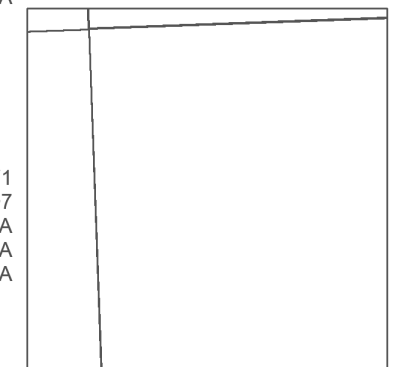


Surveyed 1873
 Revised 1896
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1872
 Revised 1896
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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

Site Details:

unspecified

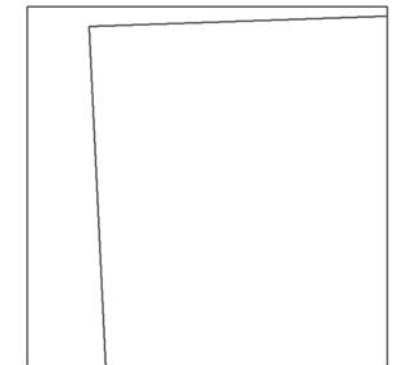
Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1898

Scale: 1:10,560

Printed at: 1:10,560



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



Produced by
Groundsure Insights
www.groundsure.com

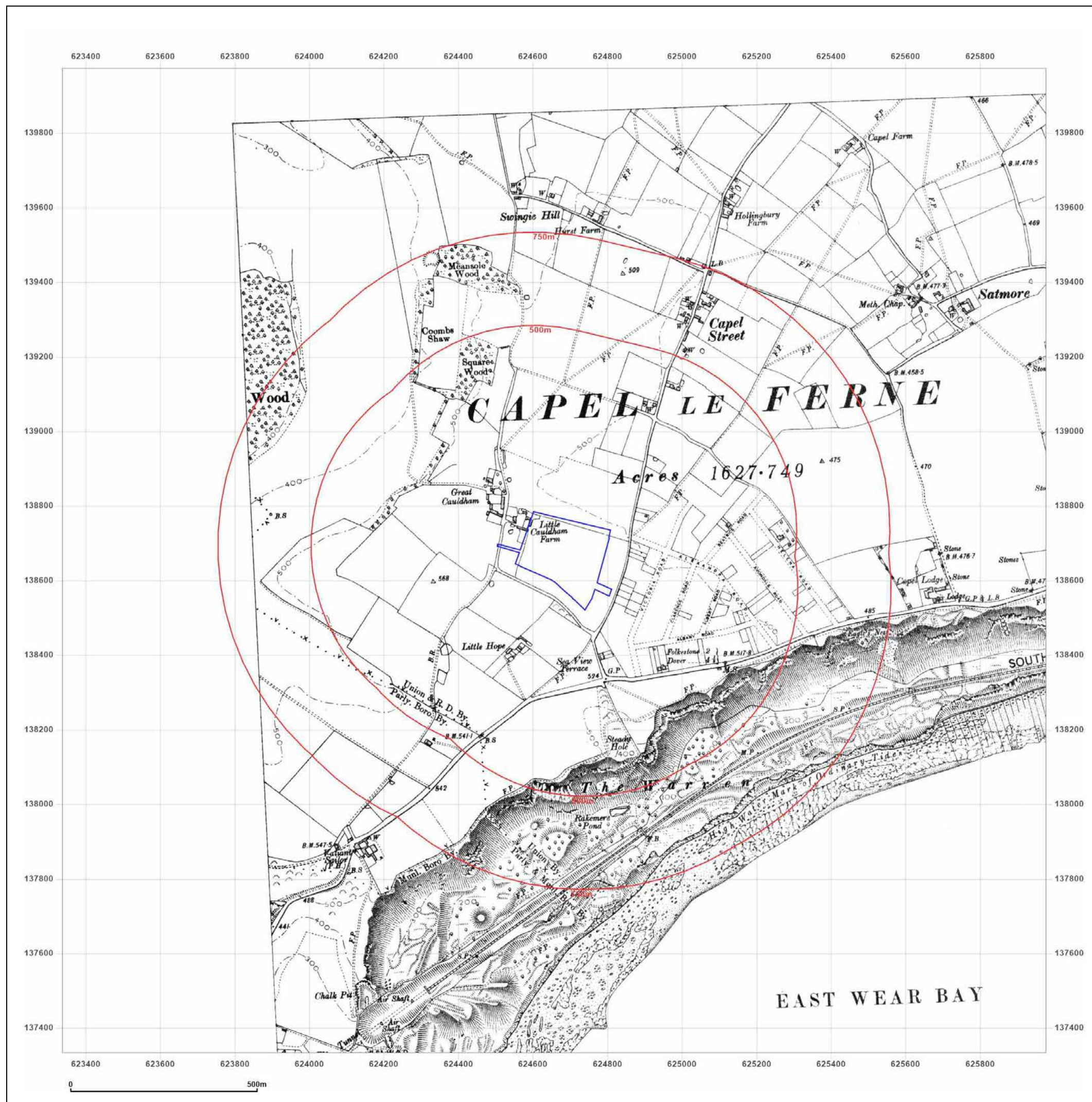


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1906

Scale: 1:10,560

Printed at: 1:10,560

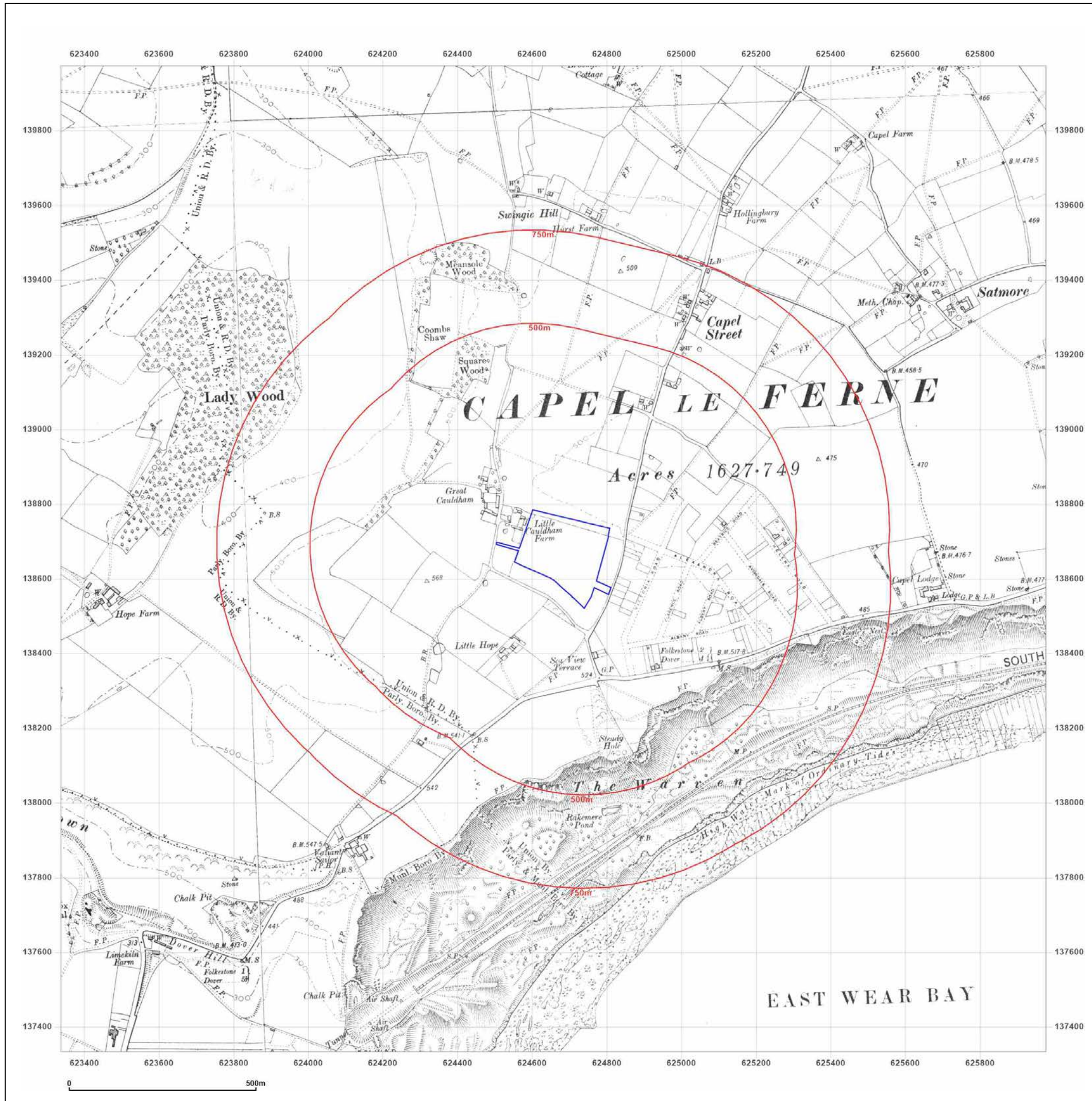
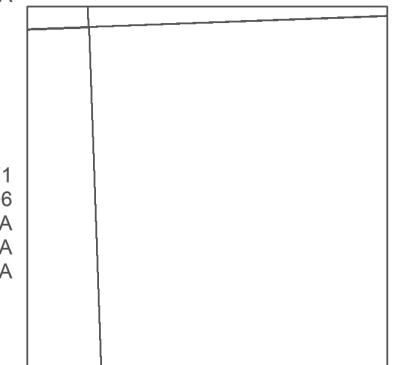


Surveyed 1872
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1906
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

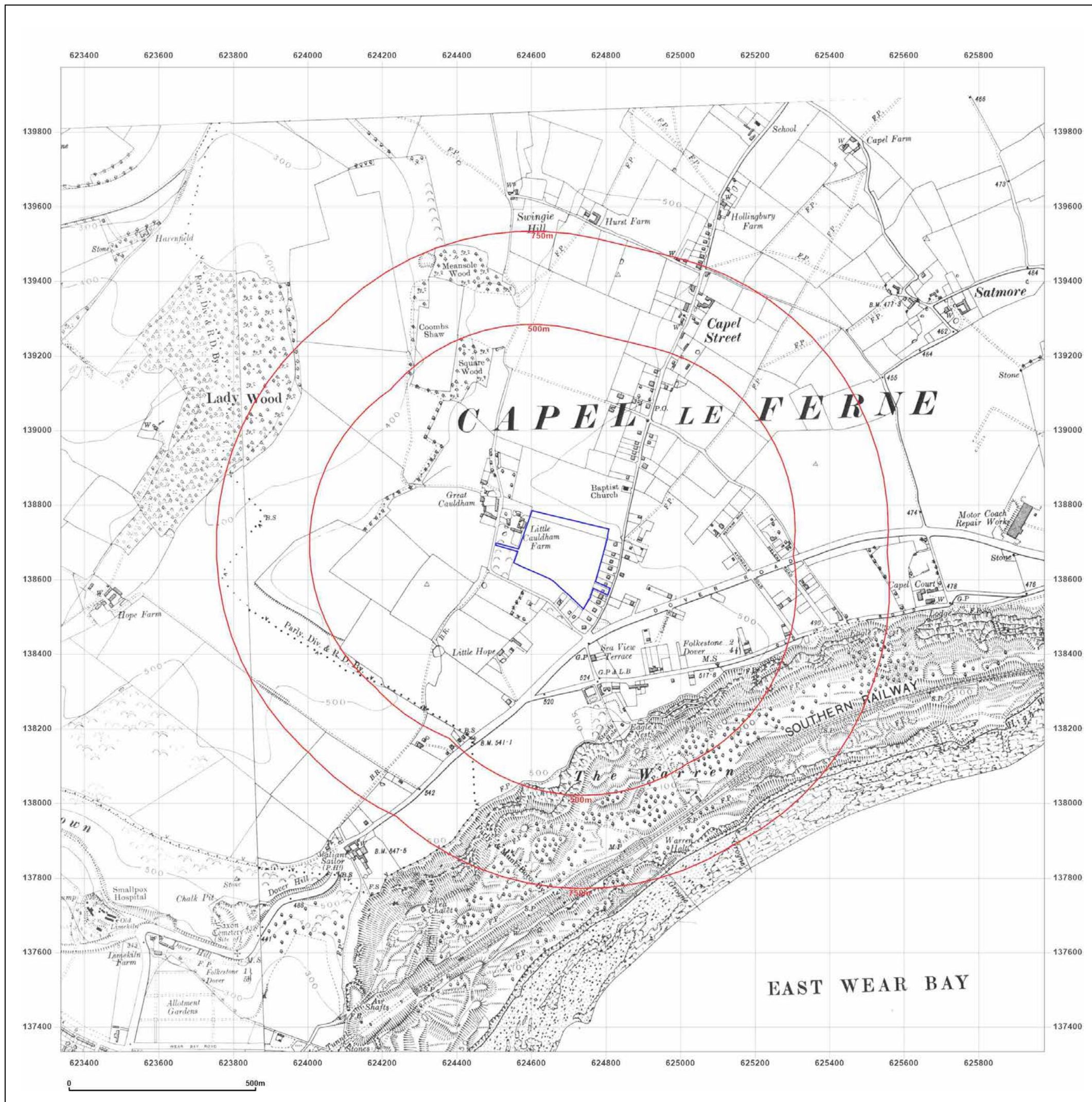


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

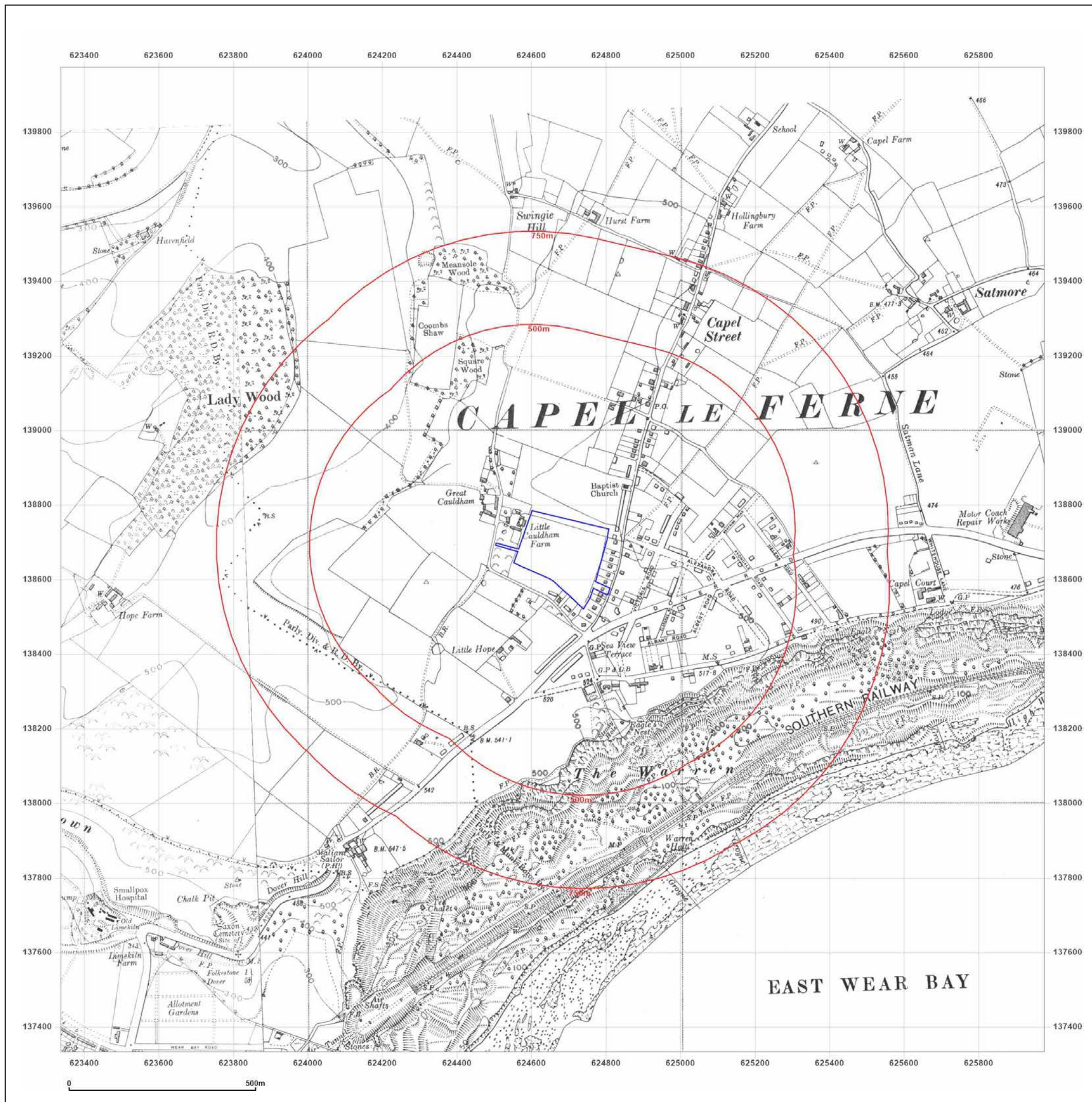


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1871
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

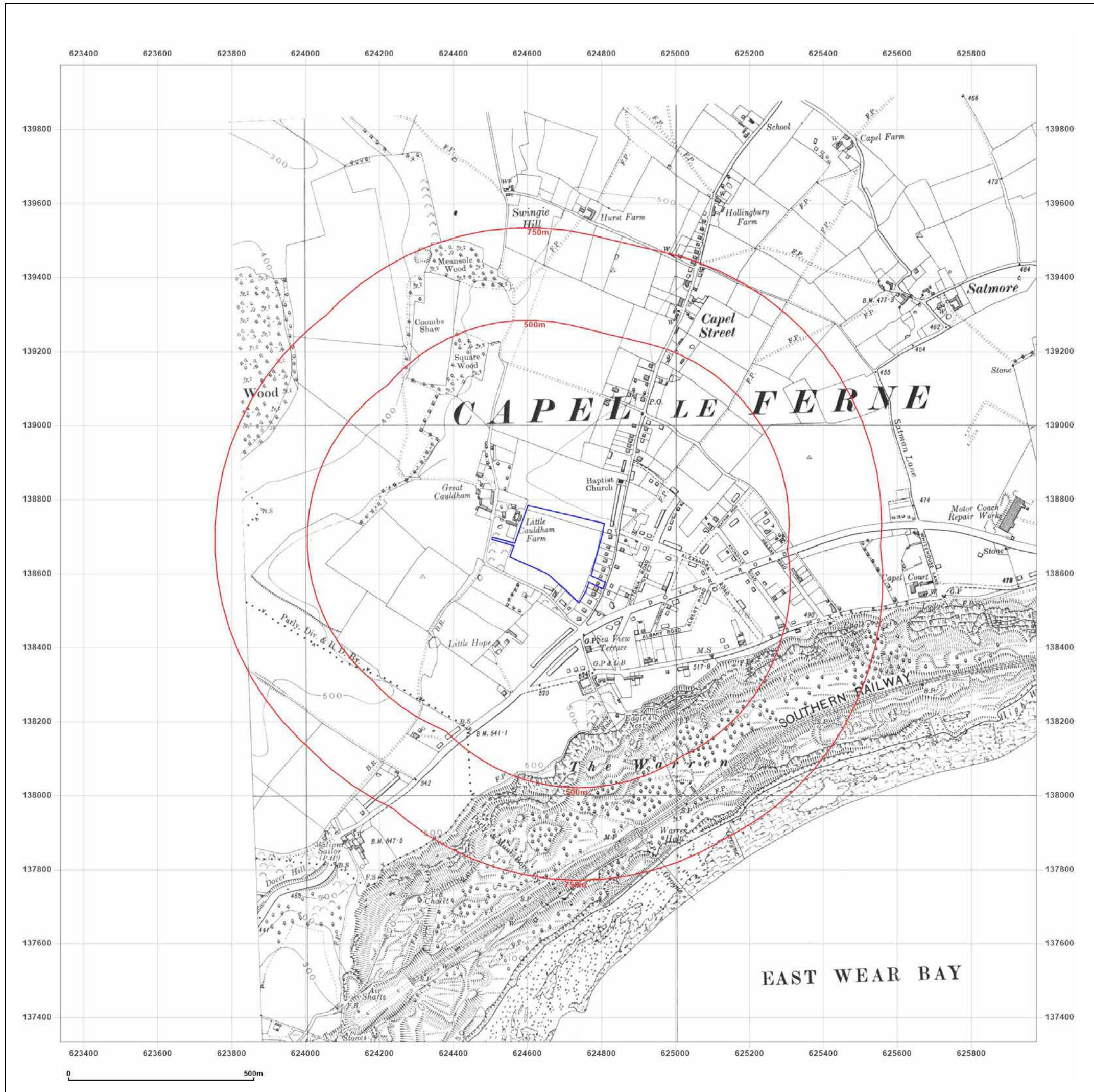


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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



EMAPSITE™

Site Details:

unspecified

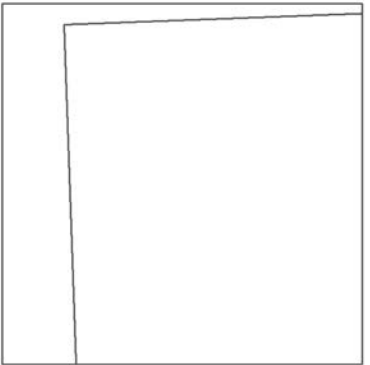
Client Ref: EMS_884739_1094865
Report Ref: EMS-884739_1130997
Grid Ref: 624656, 138653

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 01 August 2023

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