

## **East Pye Solar Project**

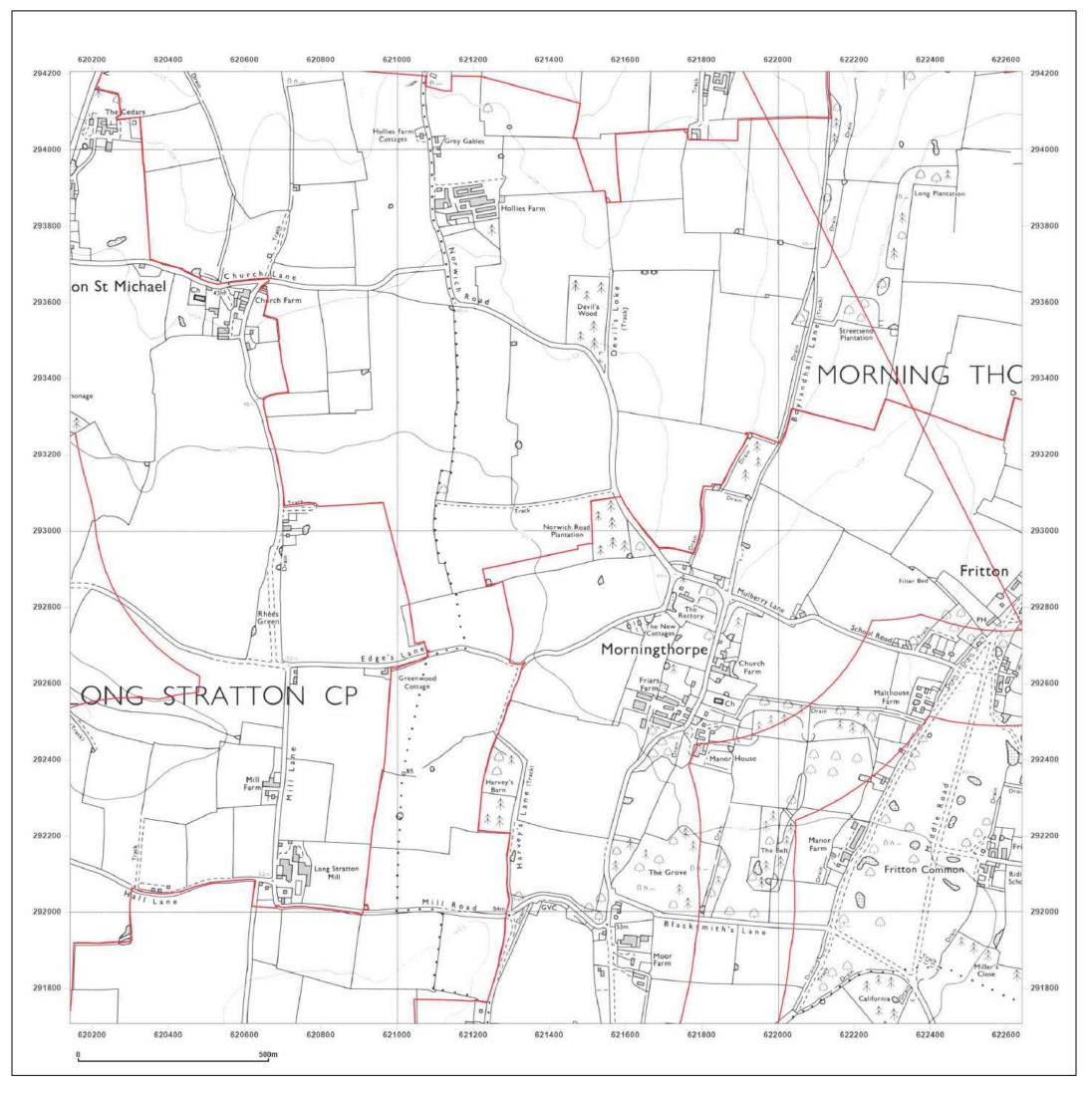
Environmental Impact Assessment (EIA) Scoping Report Volume III - Part 4 Appendix 5.2 Date: January 2025 PINS Reference: EN0110014



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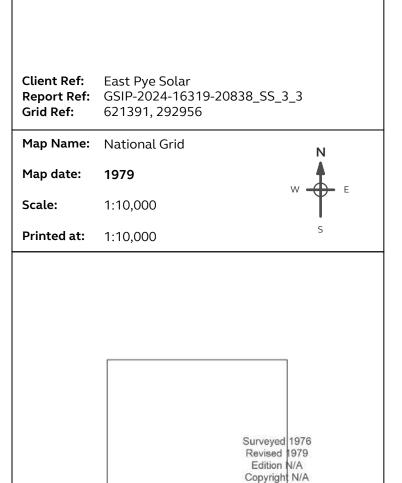
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Site Details:

Long Stratton



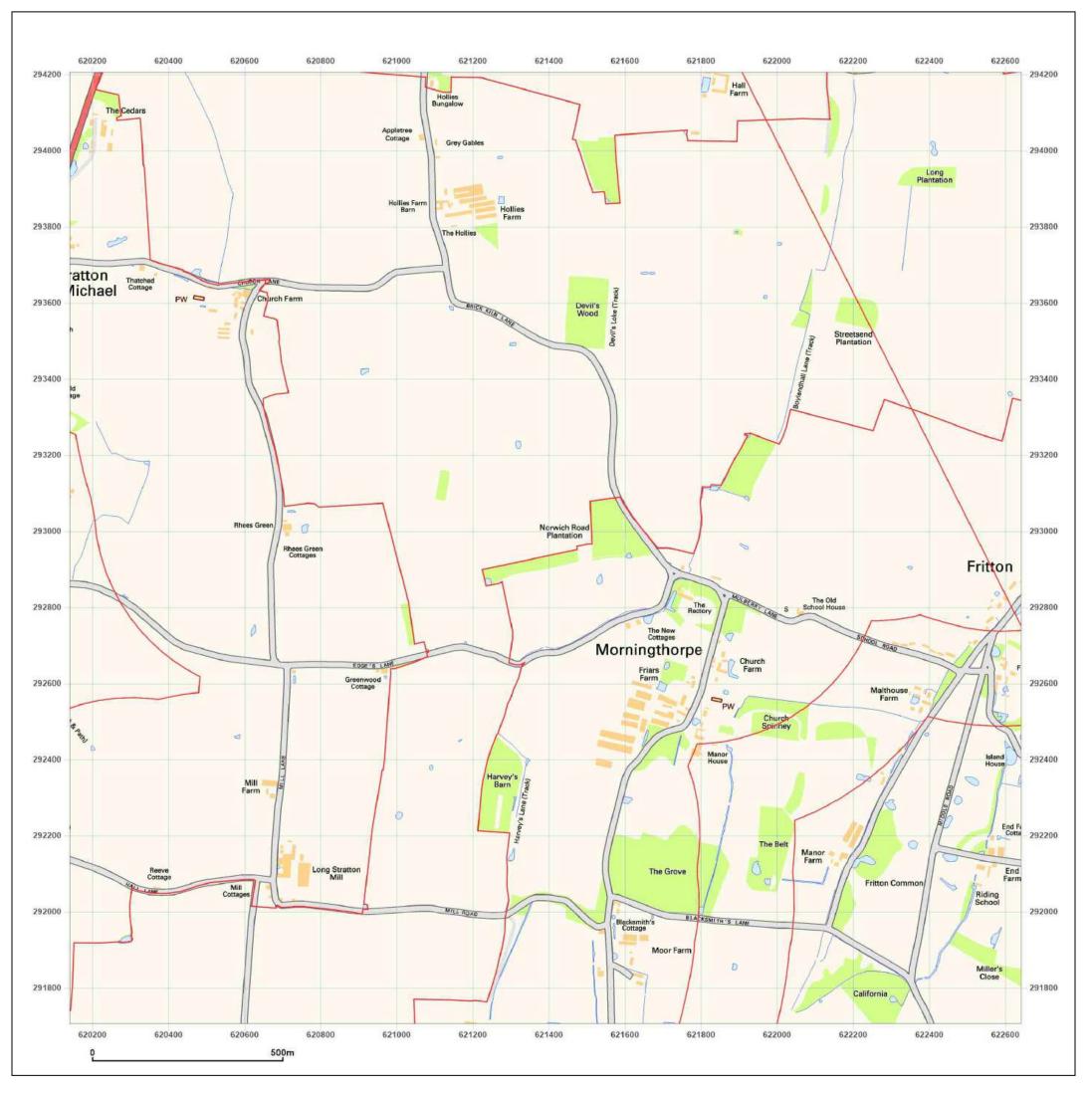


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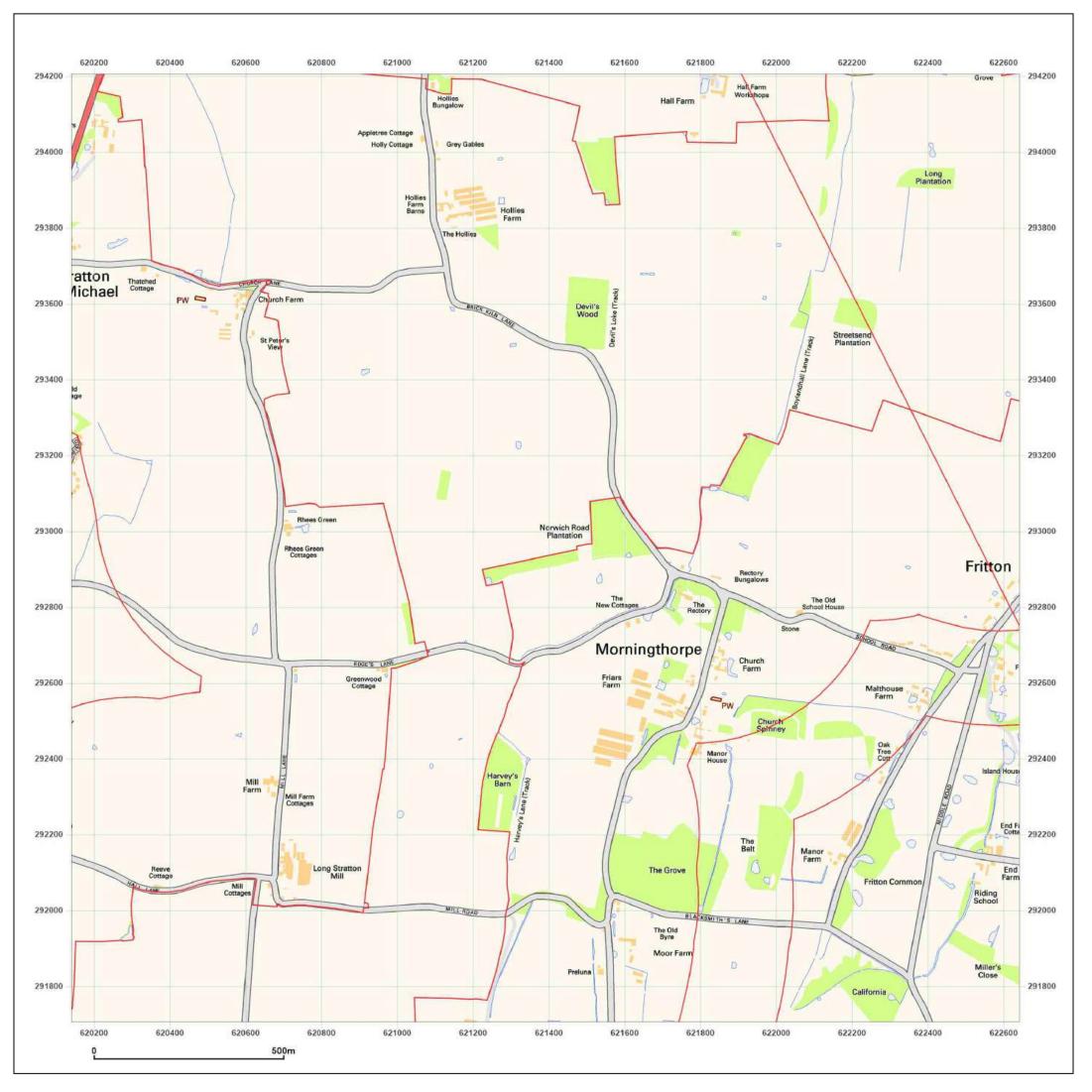


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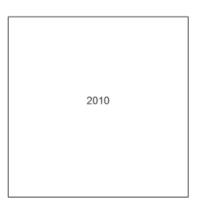




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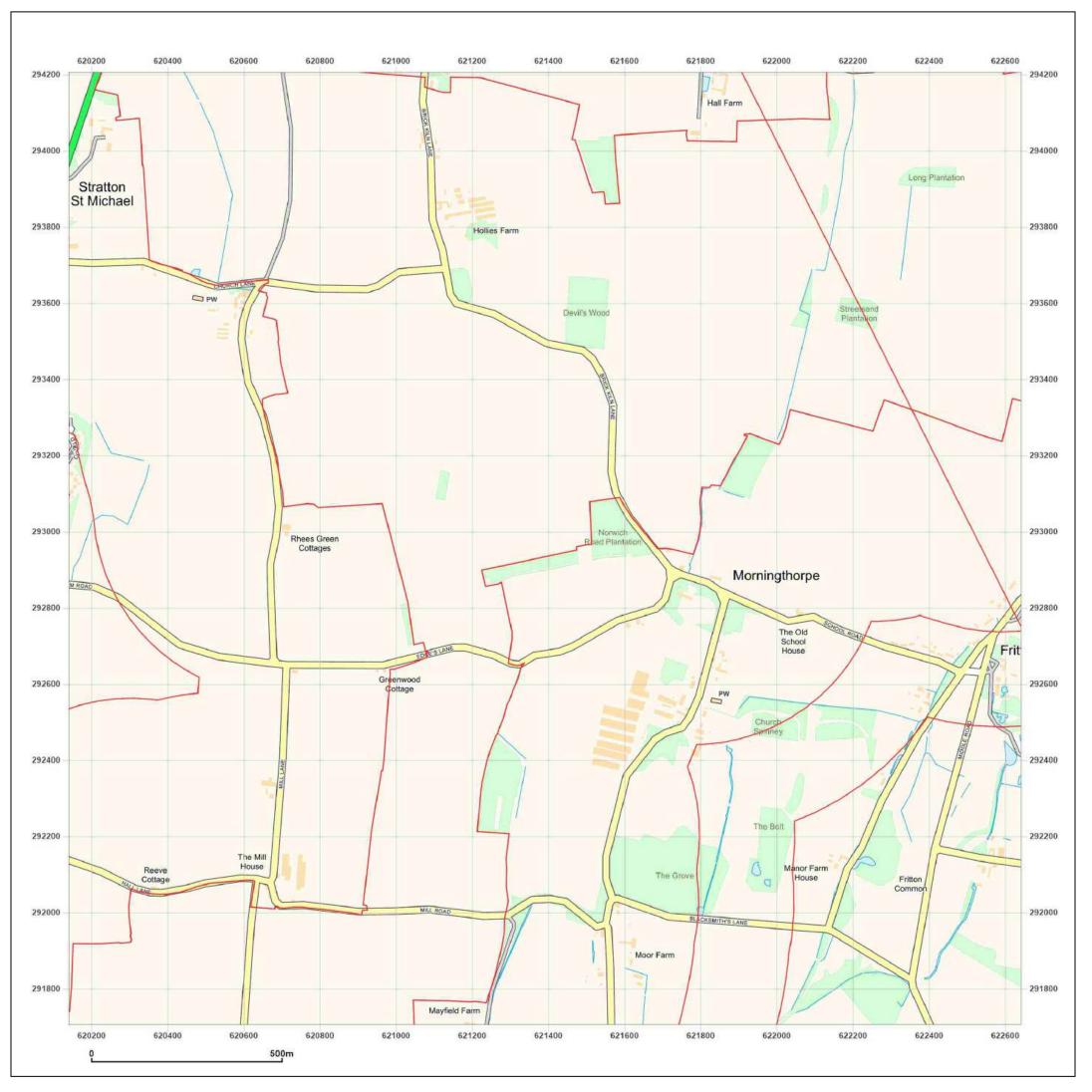
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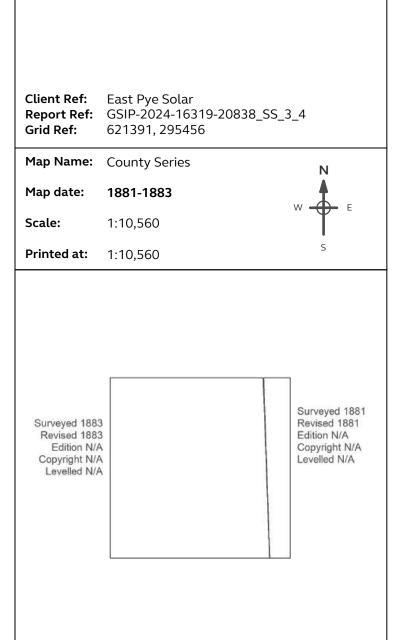
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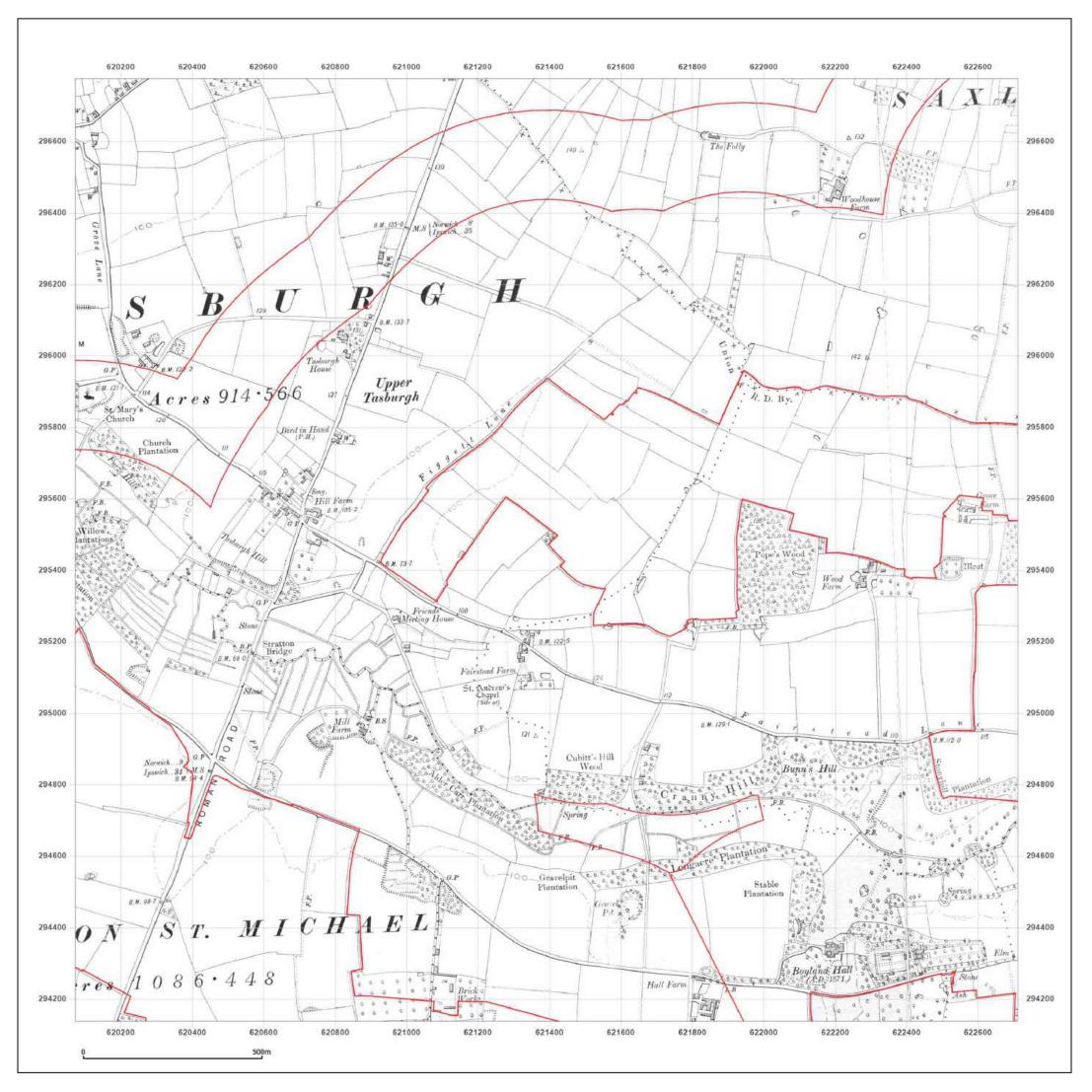
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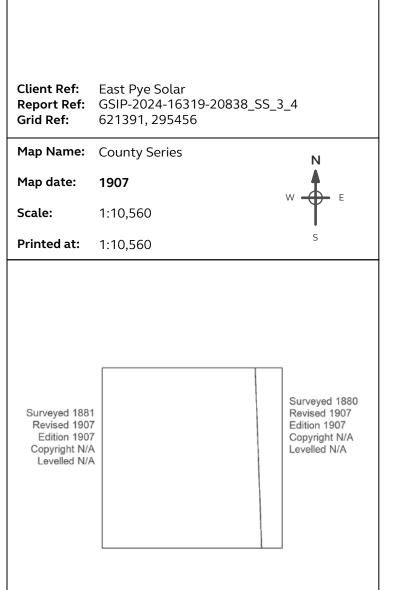
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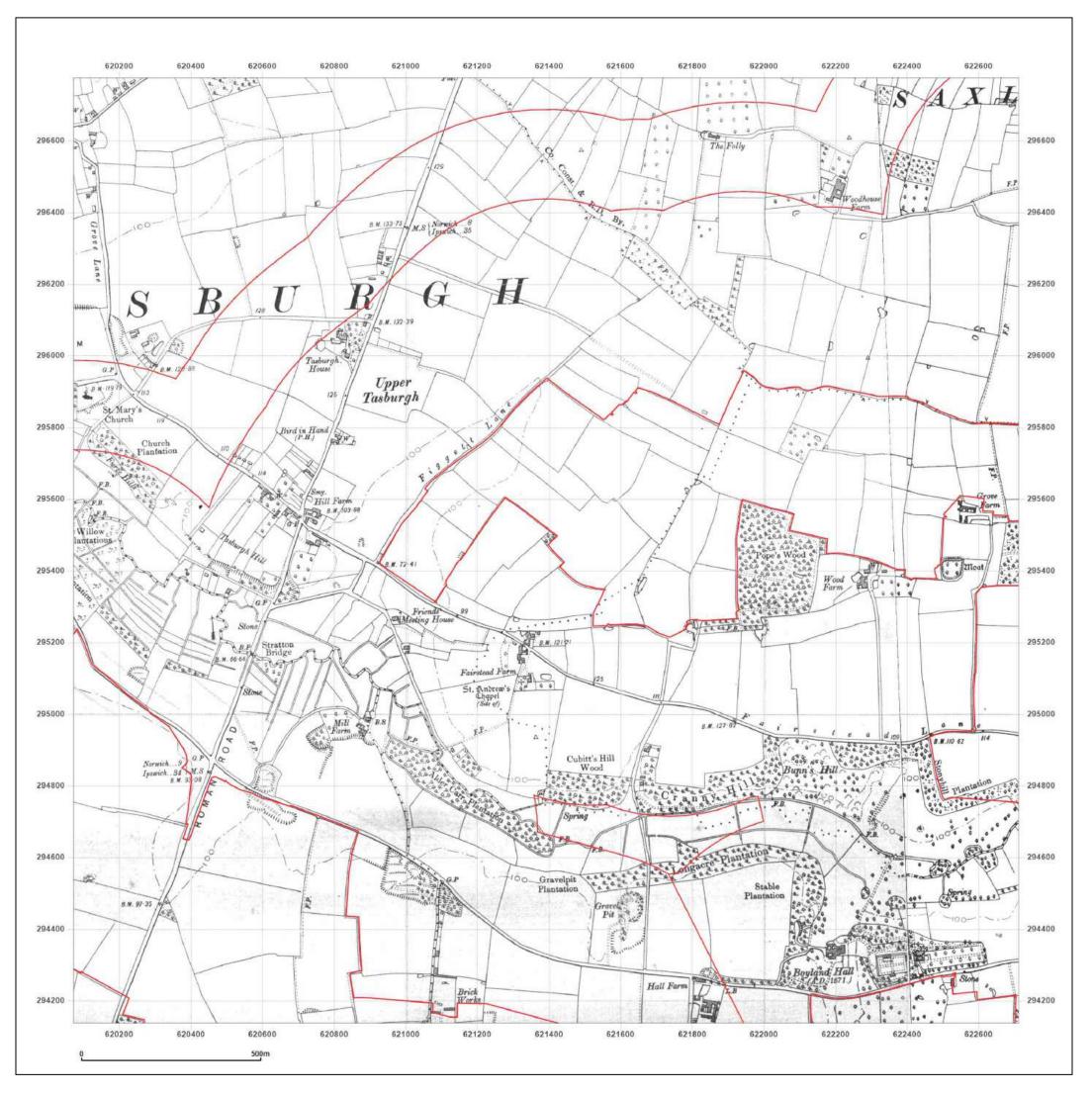
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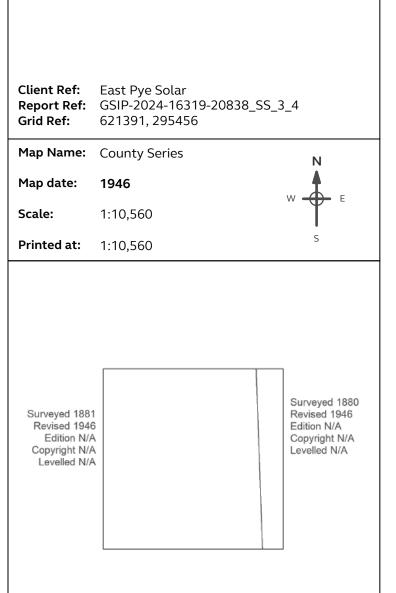
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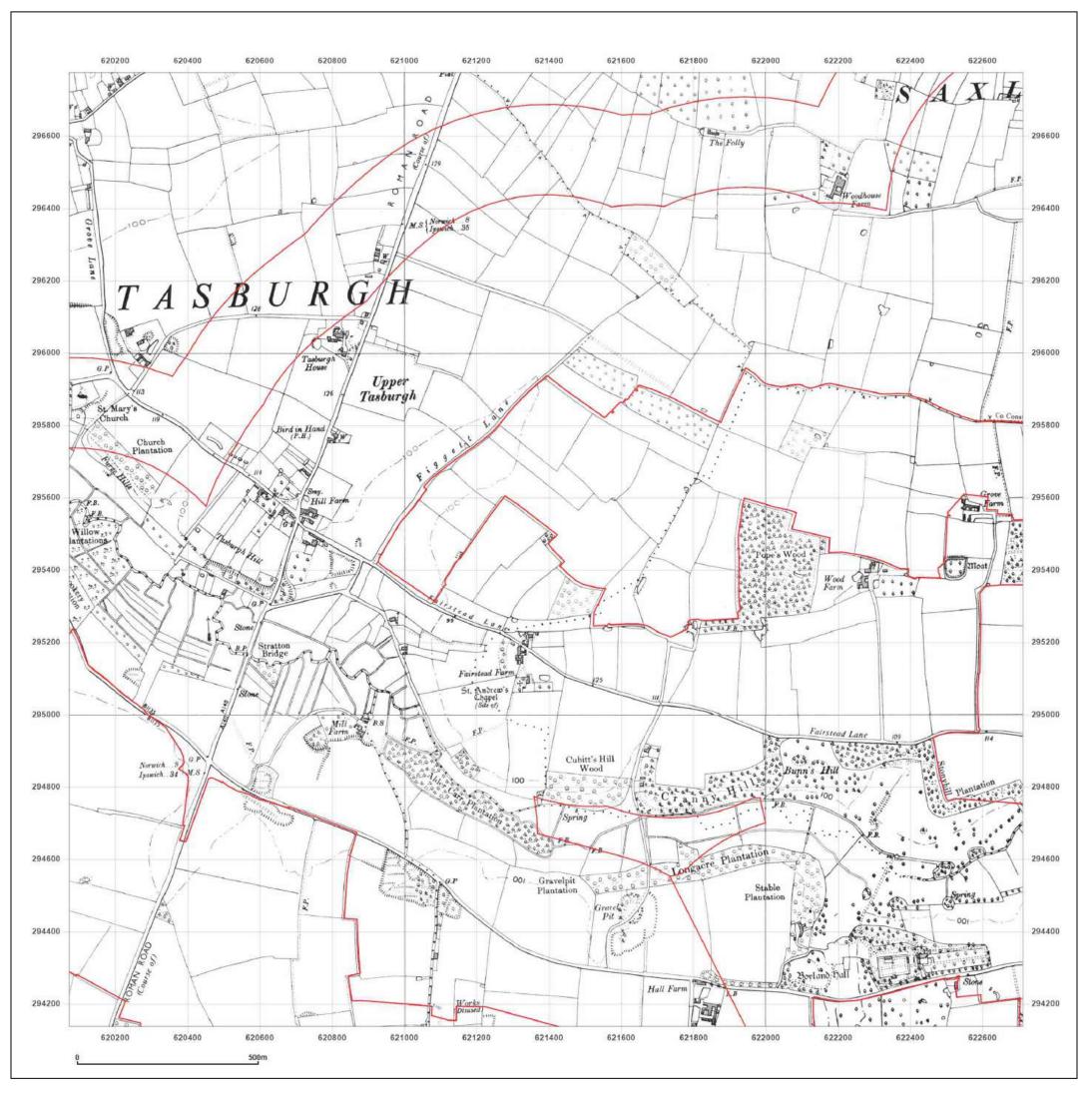
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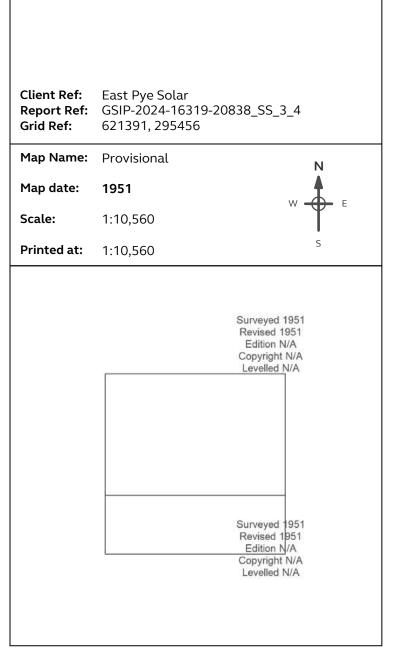


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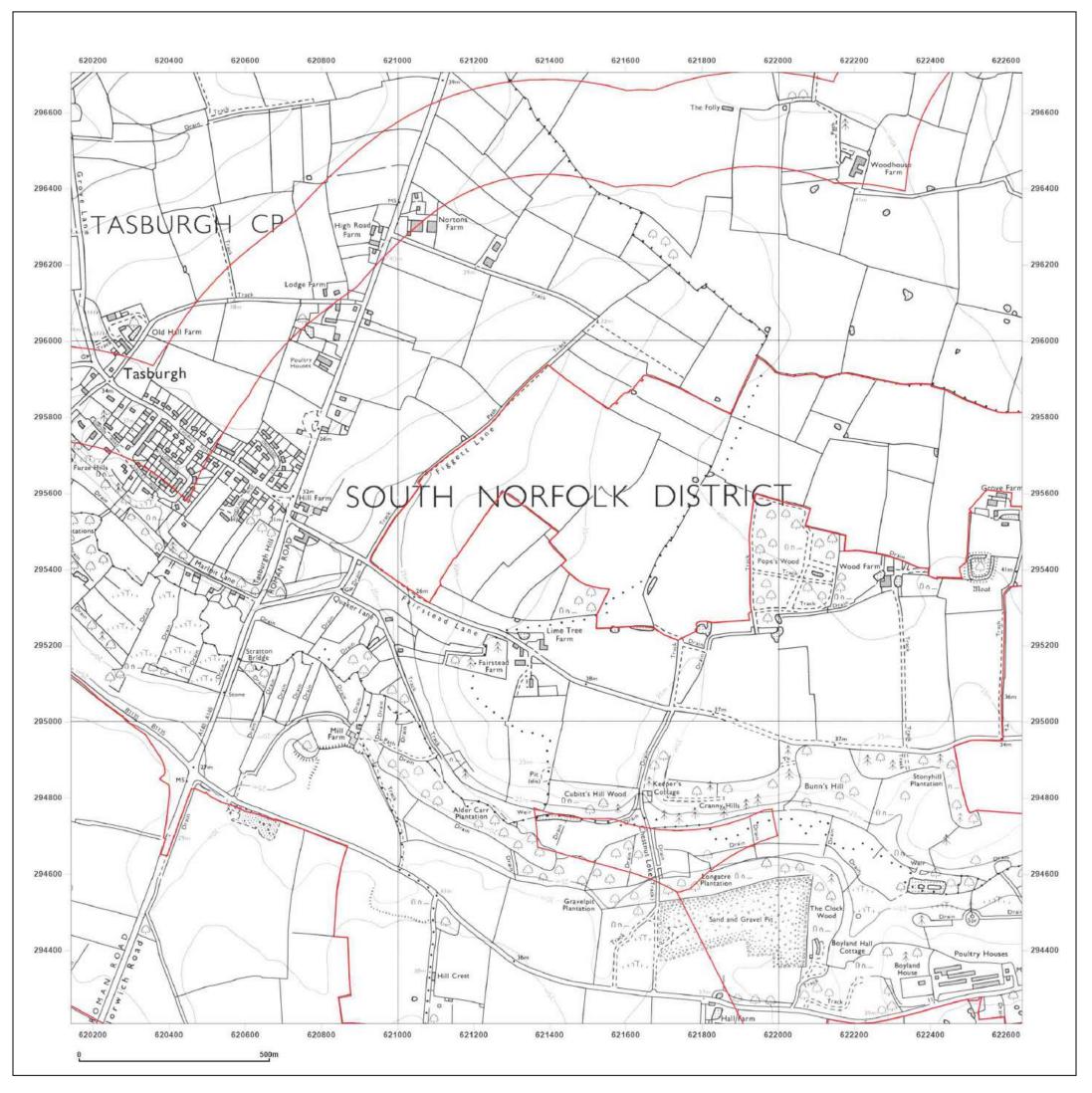




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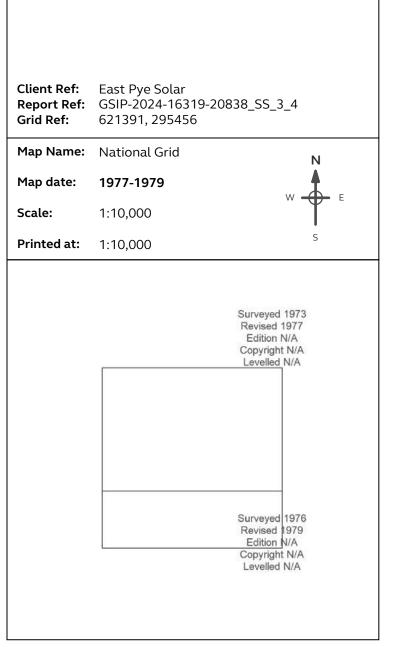


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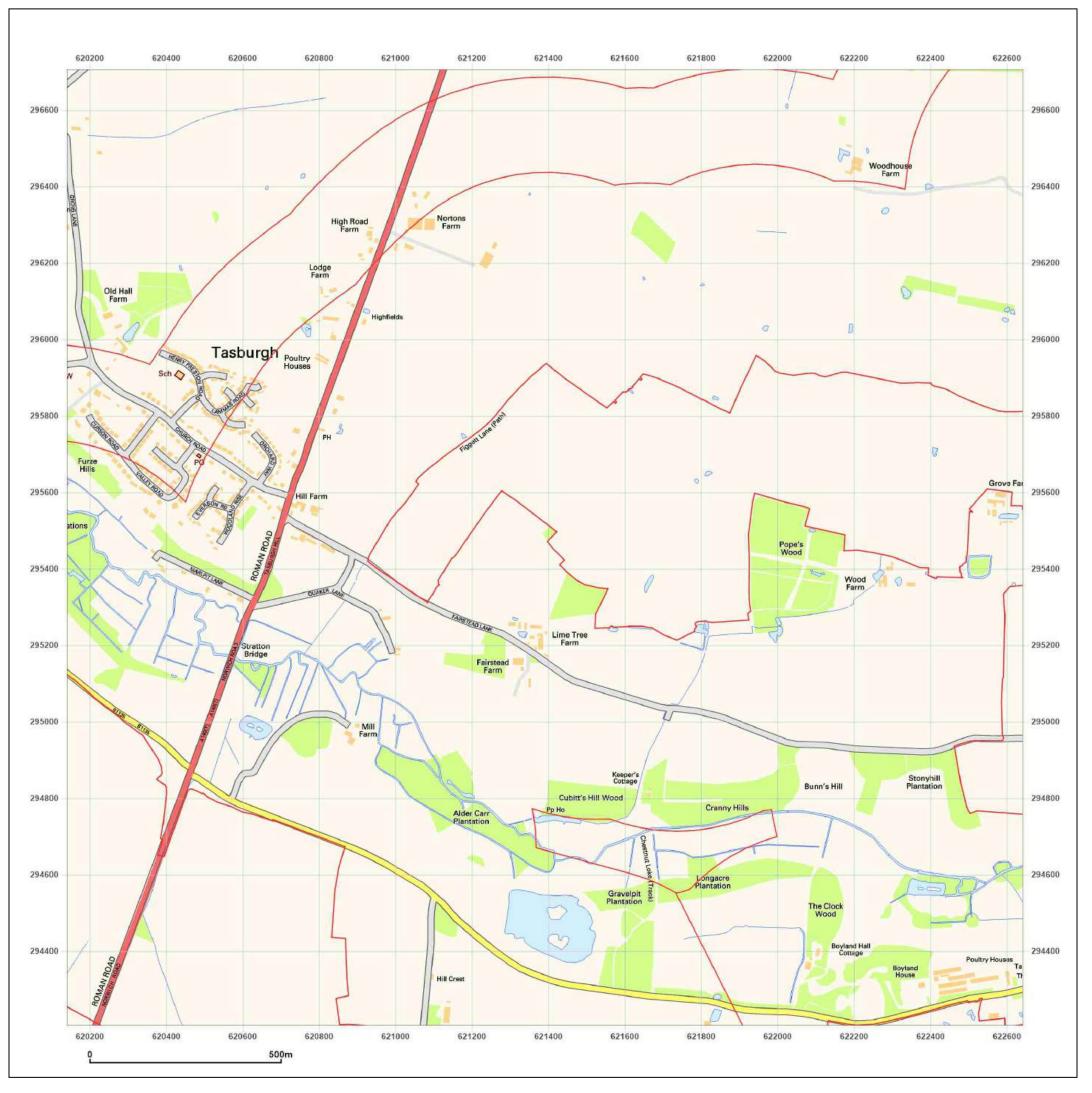




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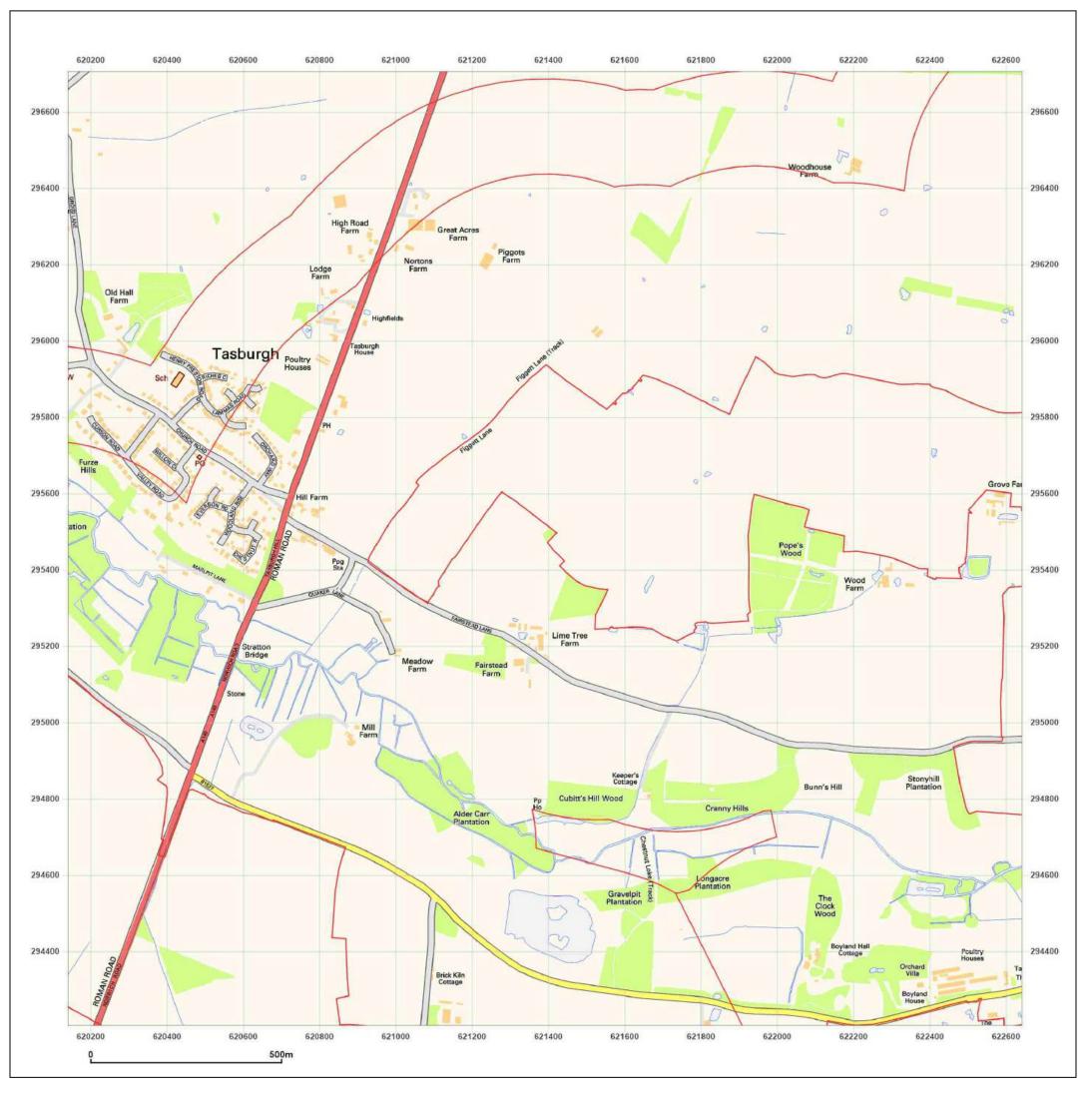
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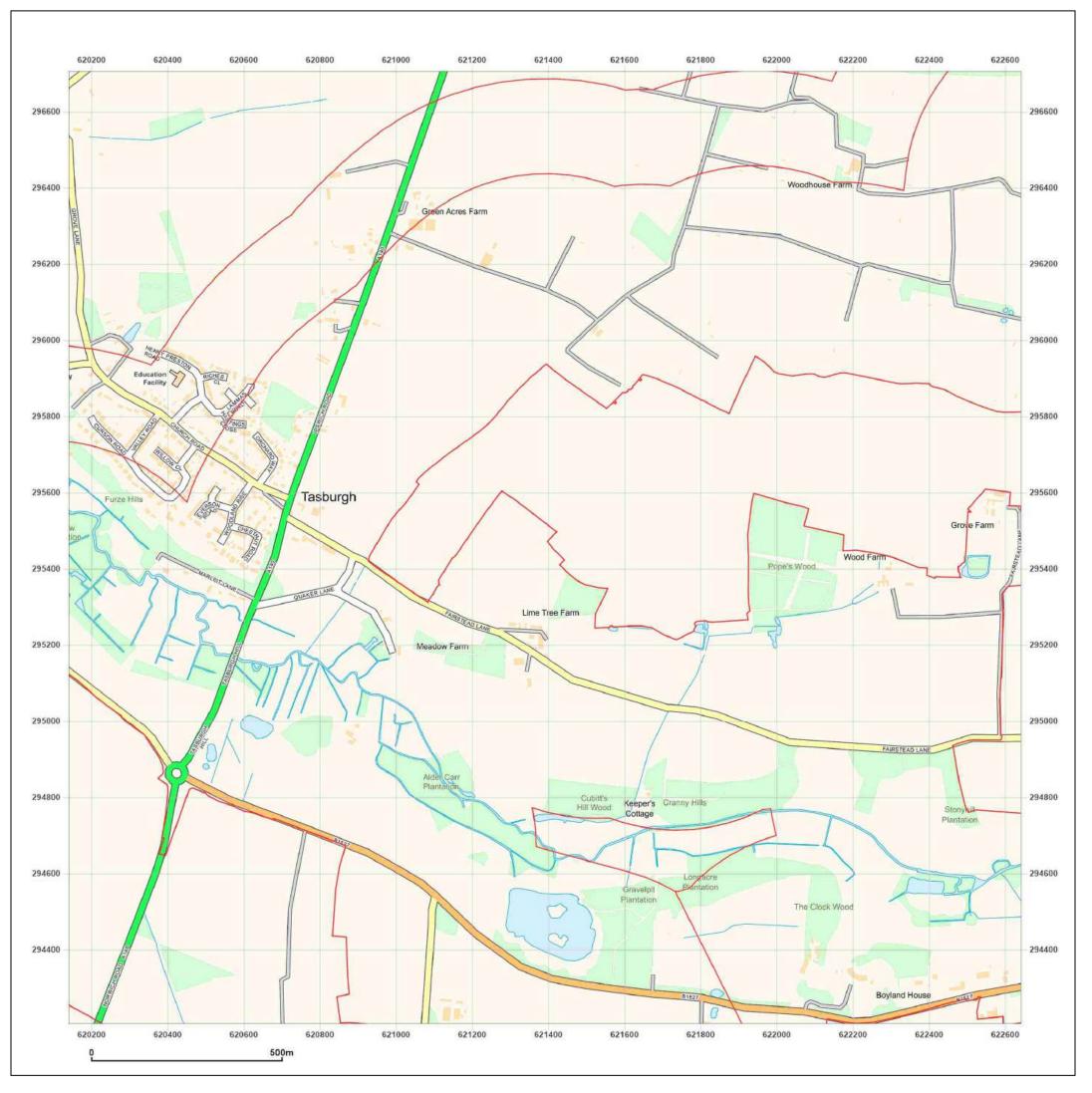
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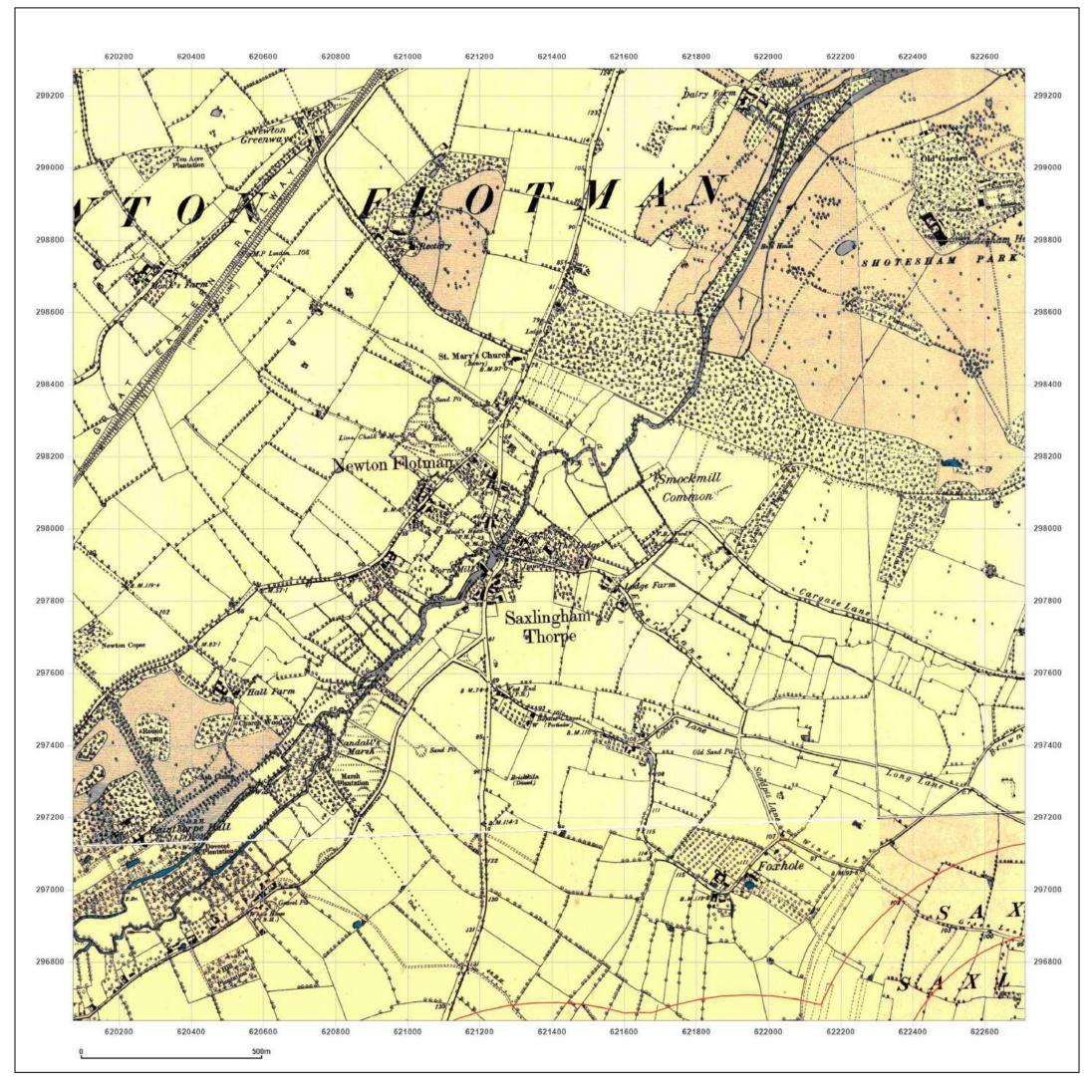


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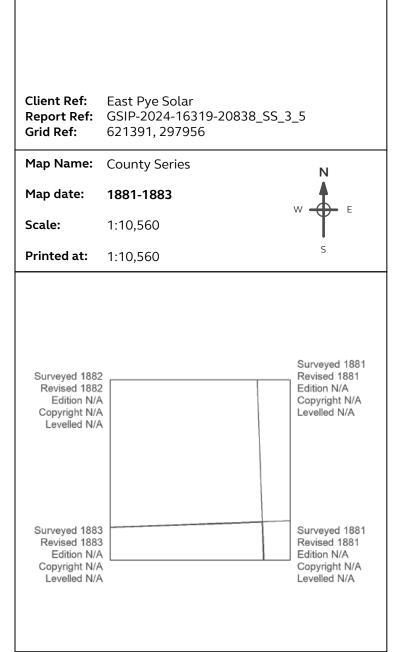
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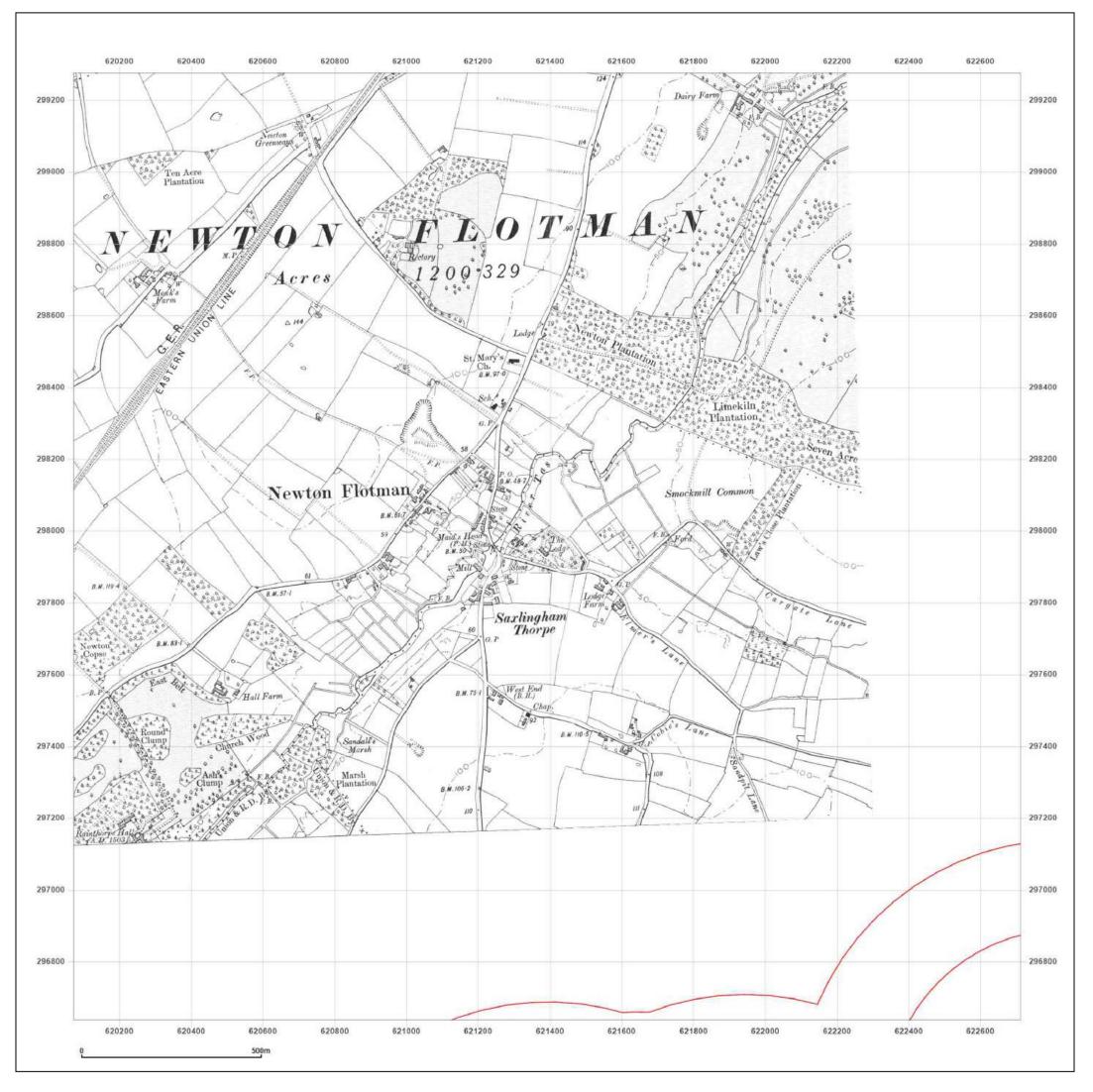
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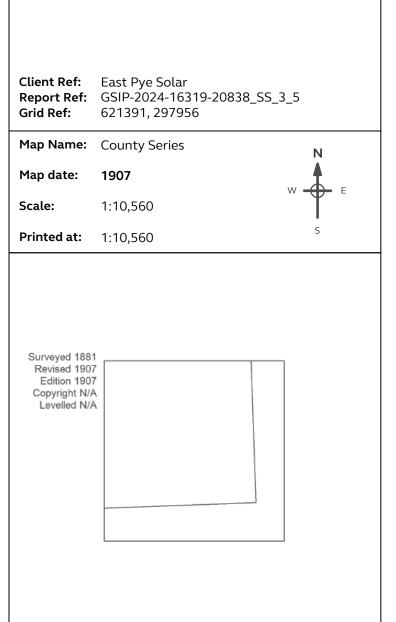
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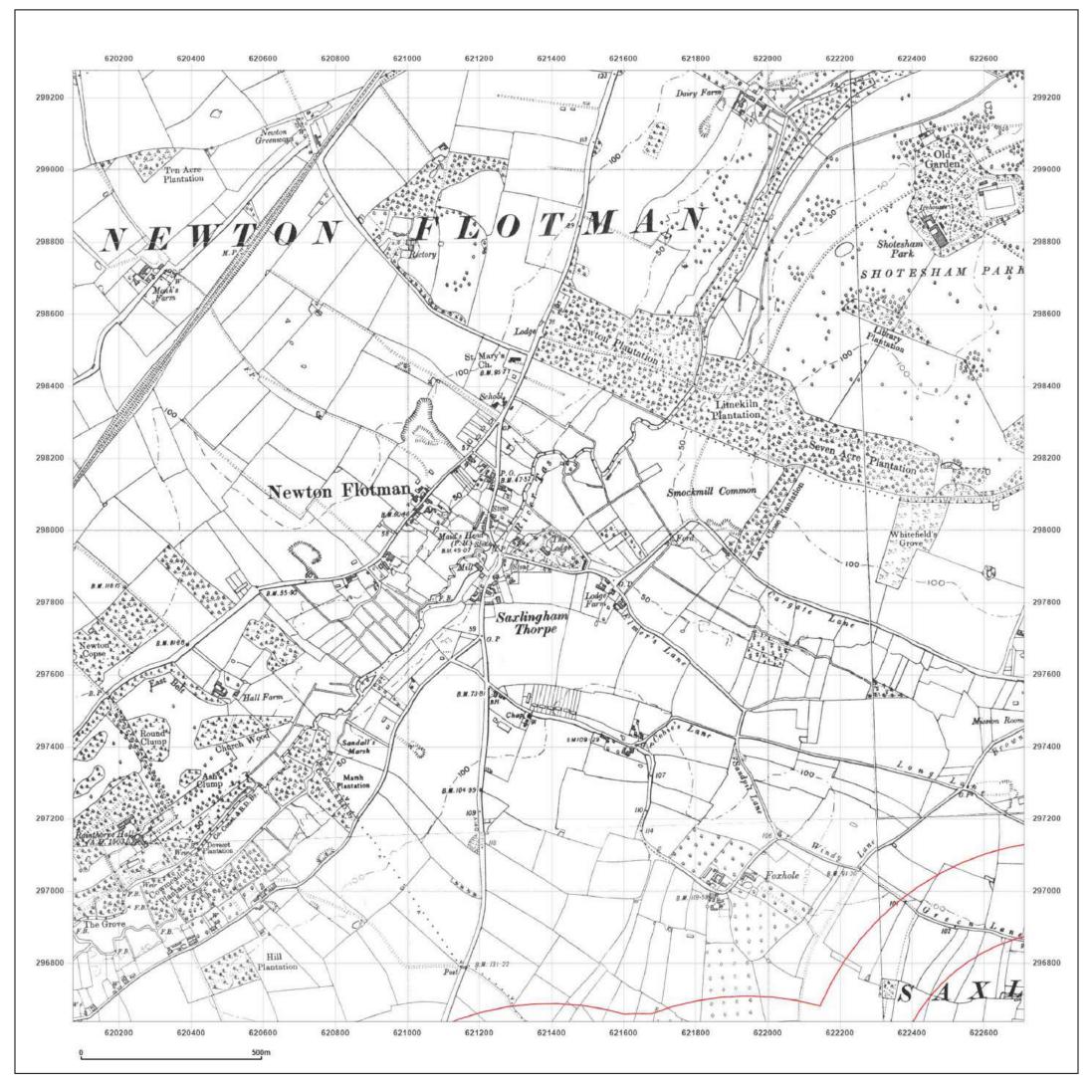




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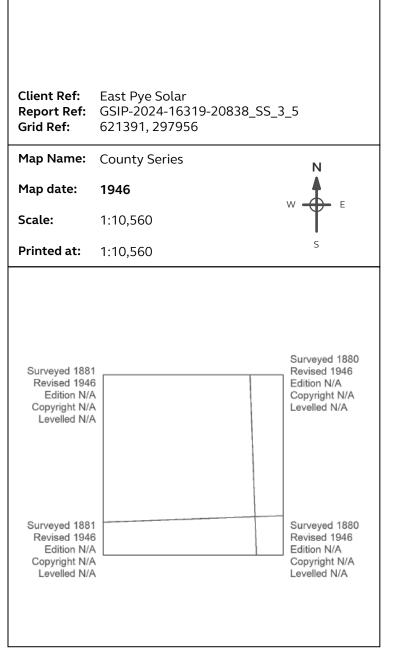


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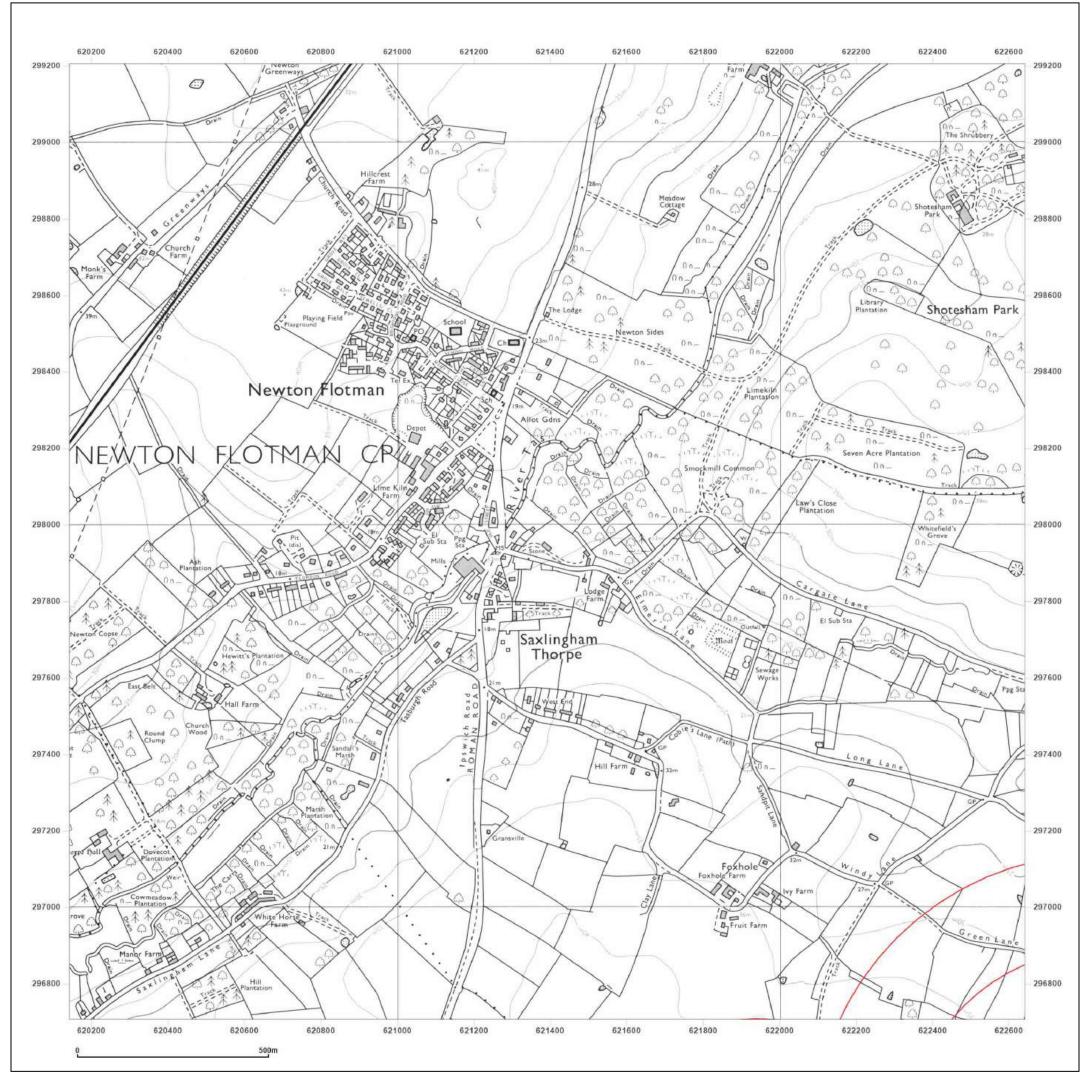


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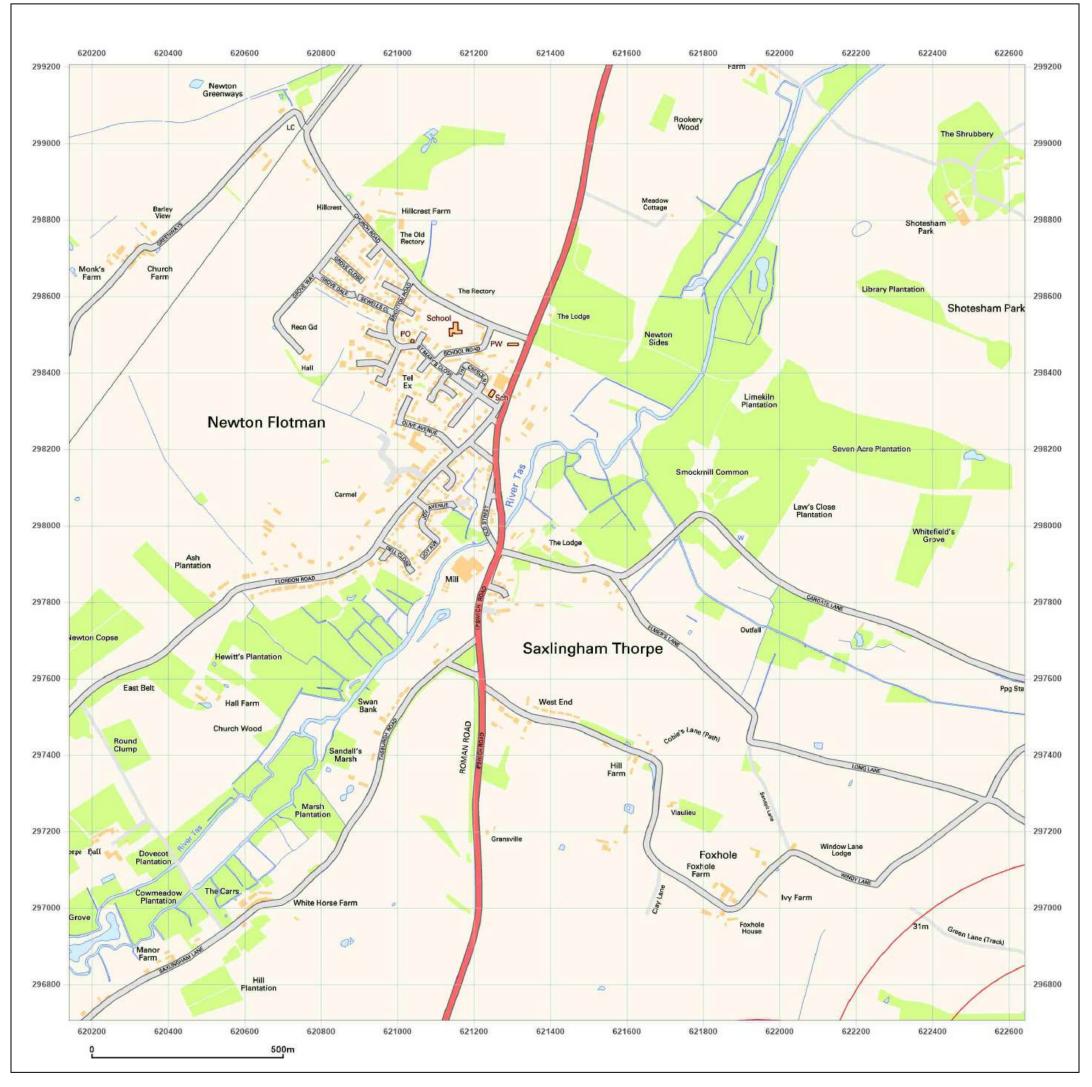




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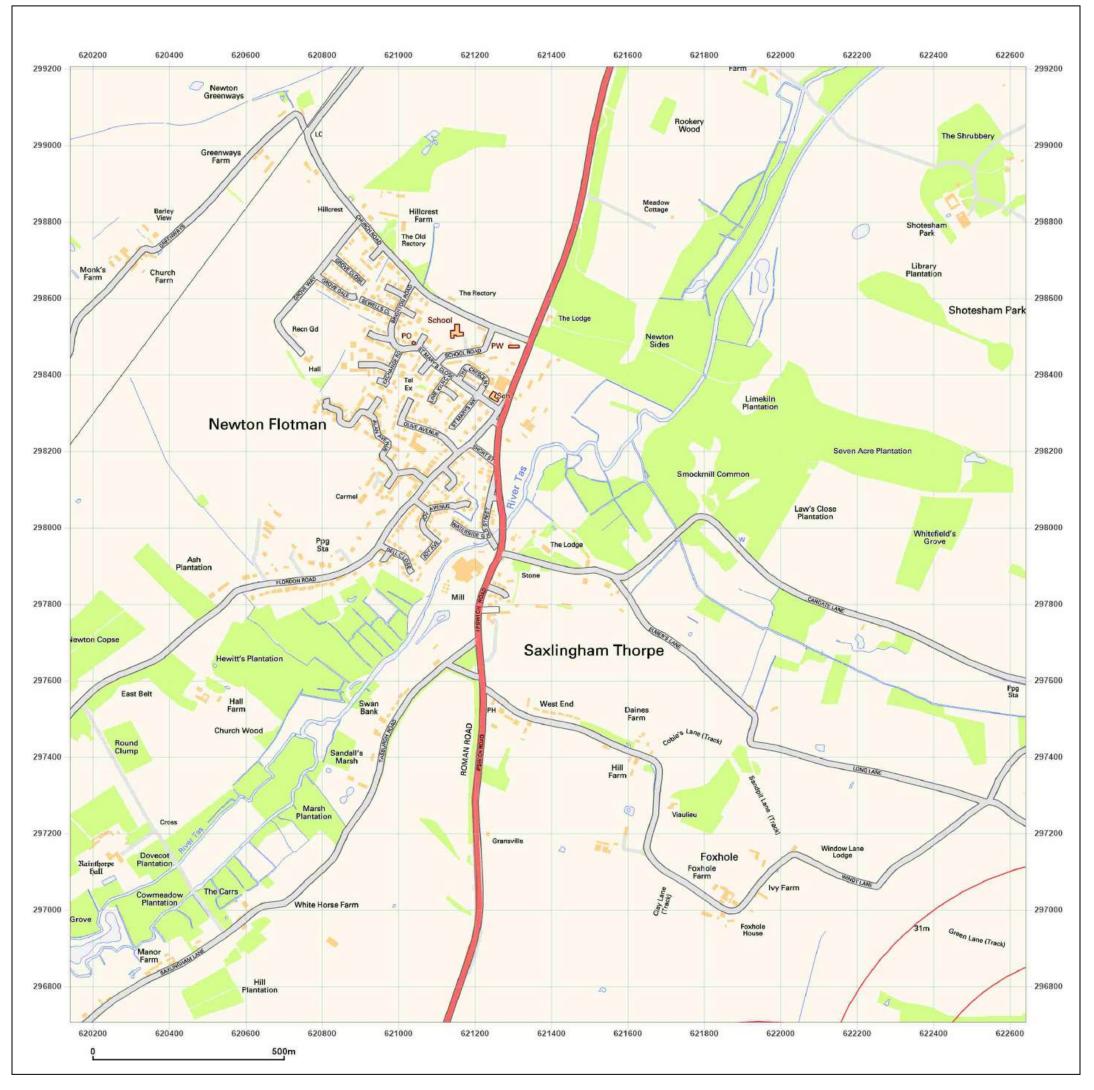
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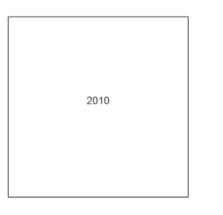




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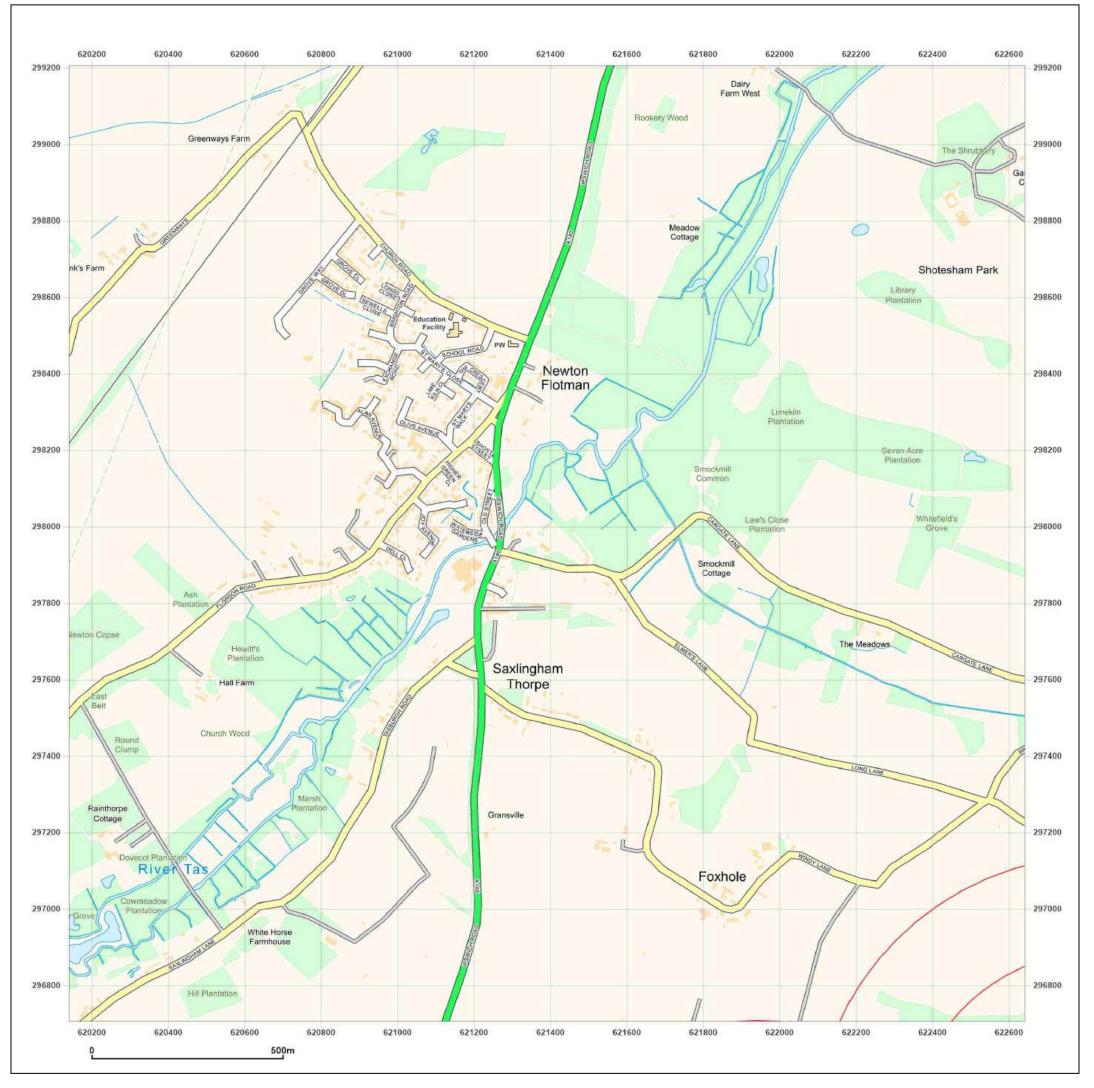




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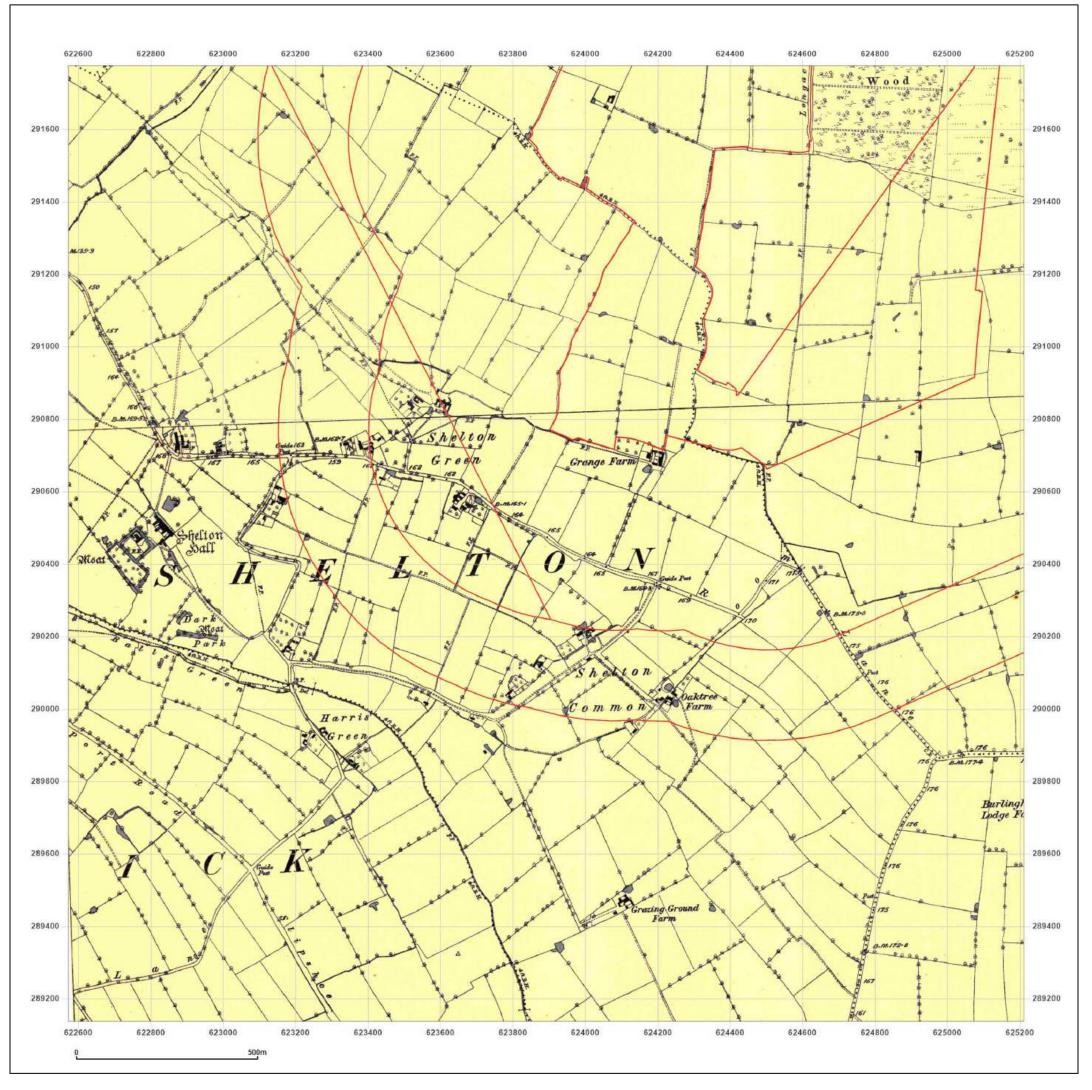
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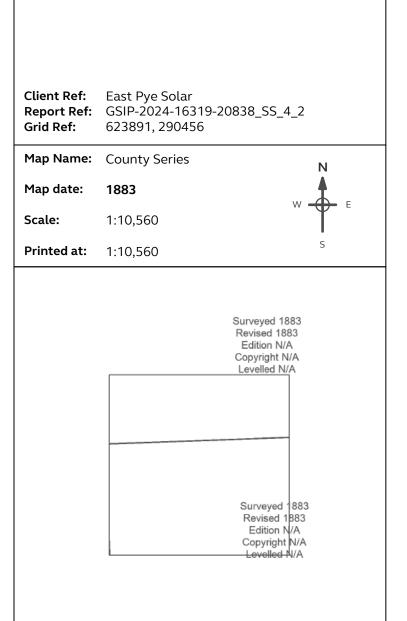


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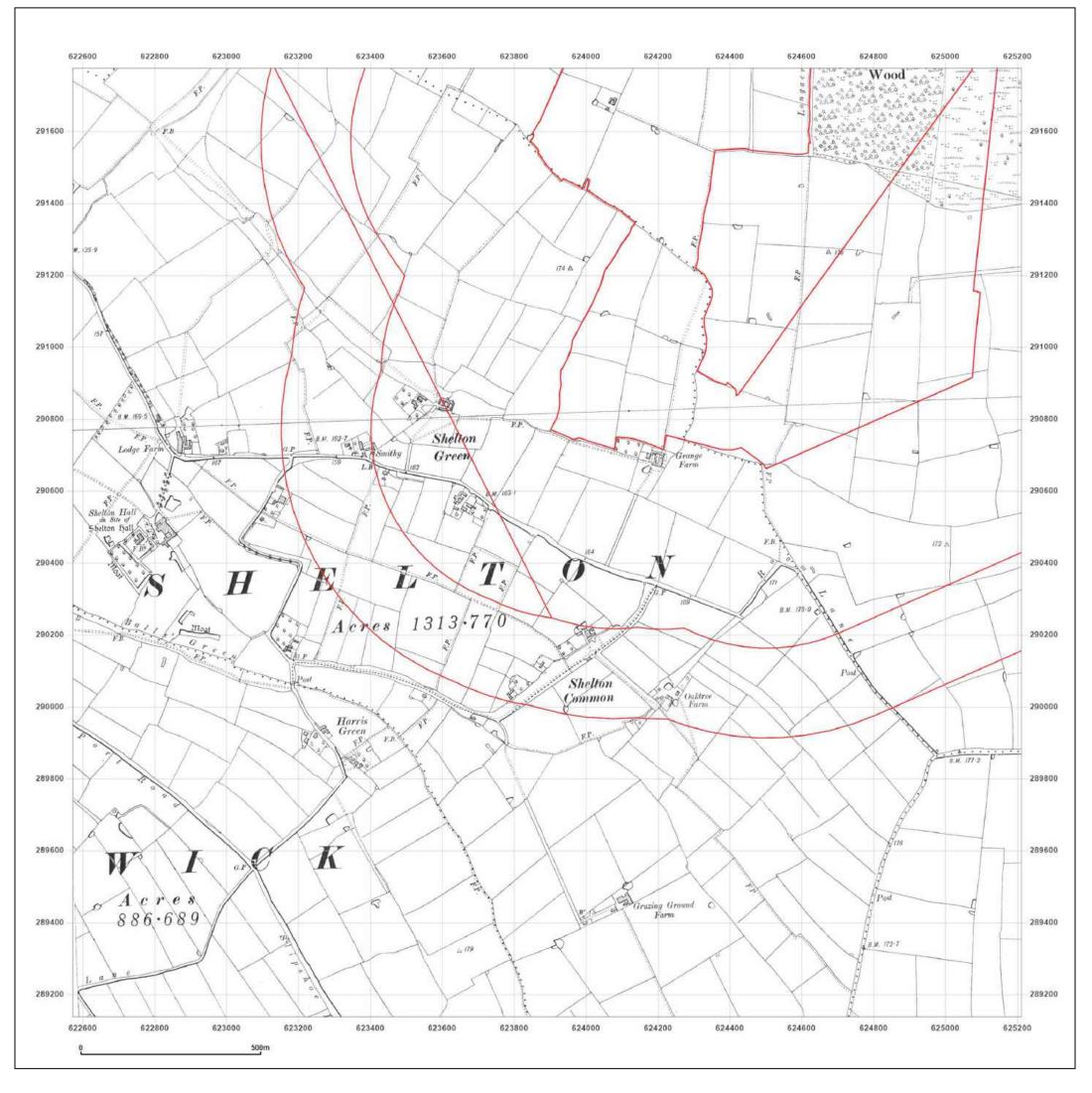




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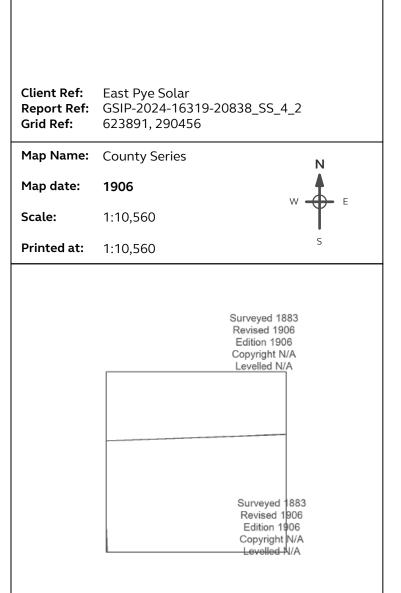


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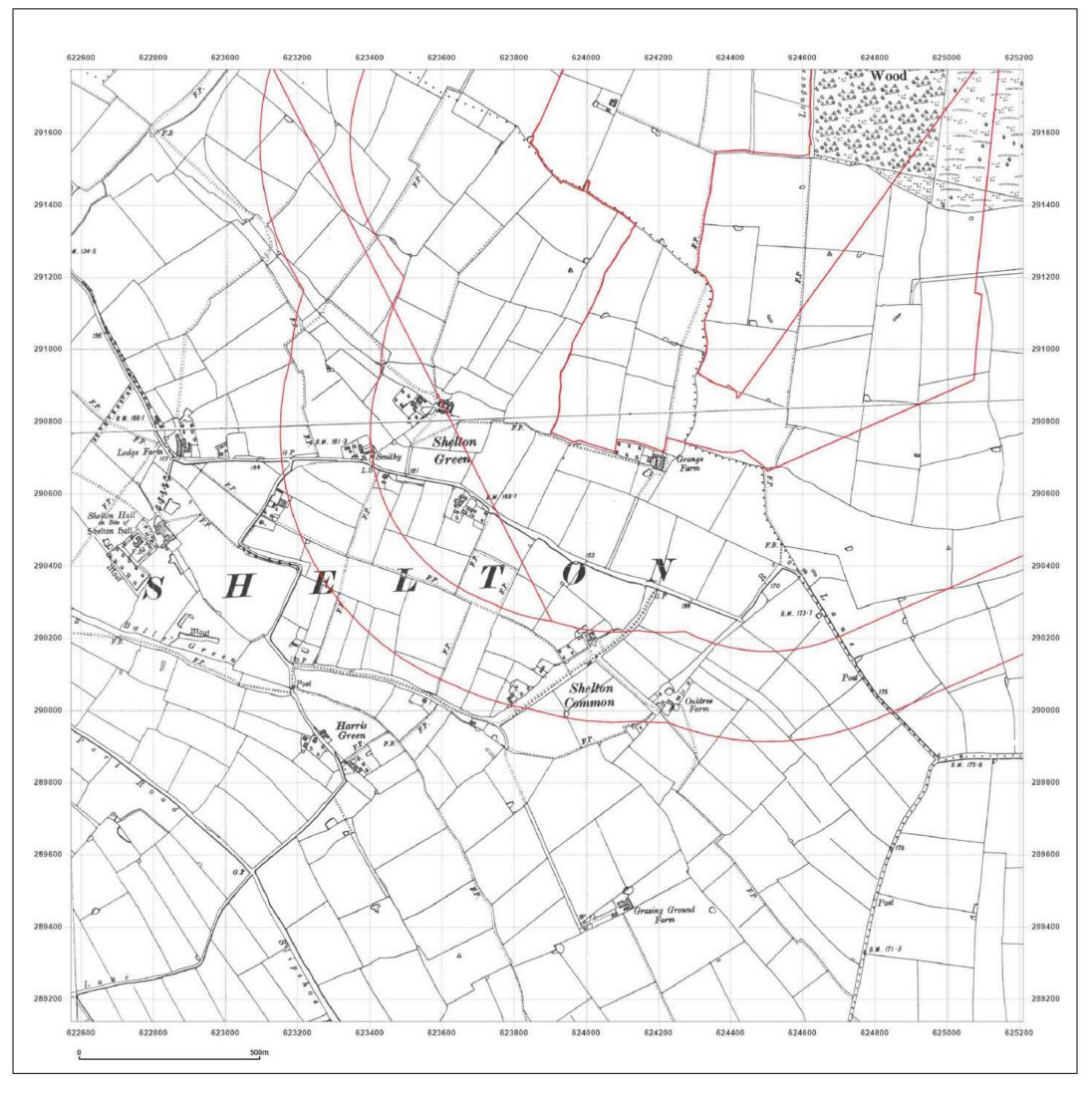




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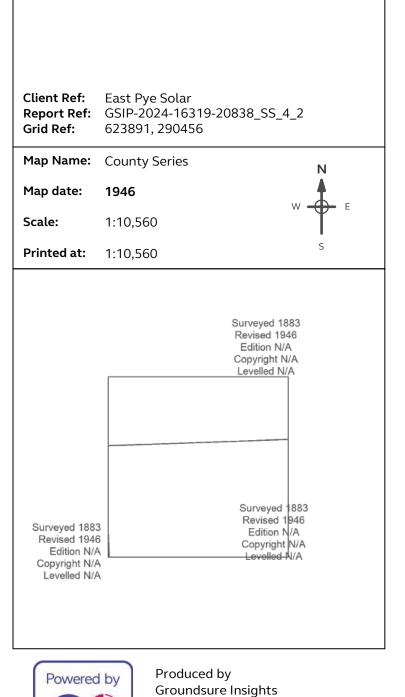
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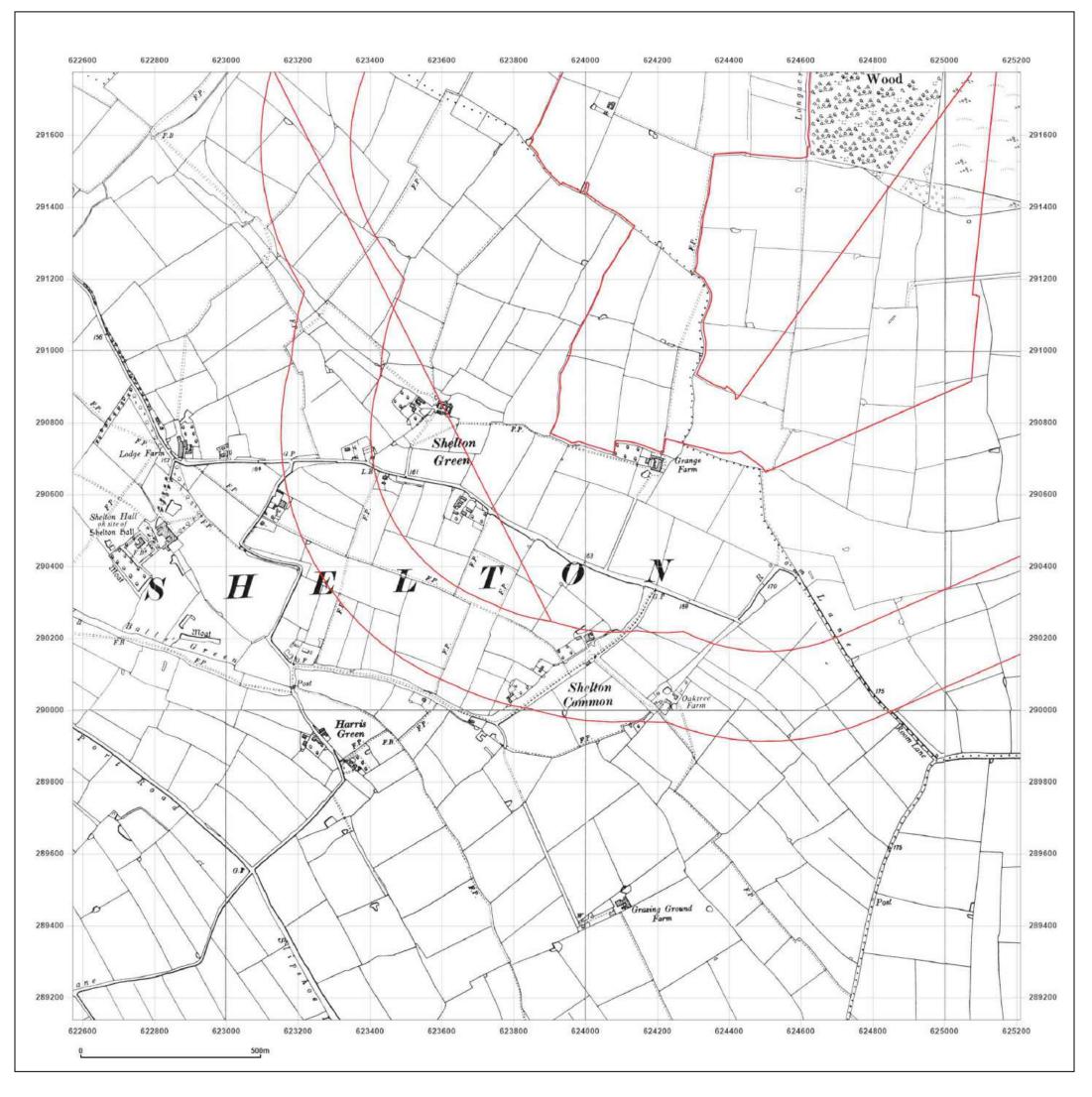


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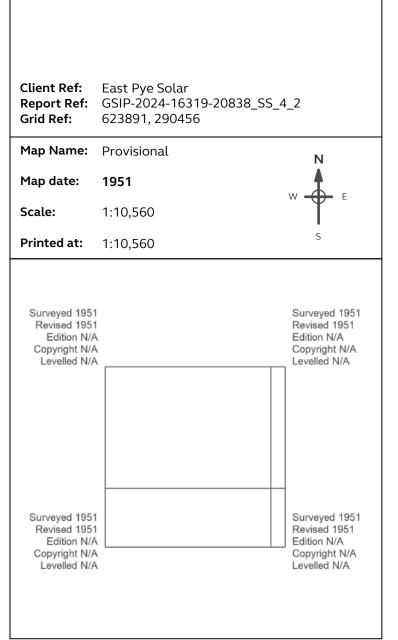


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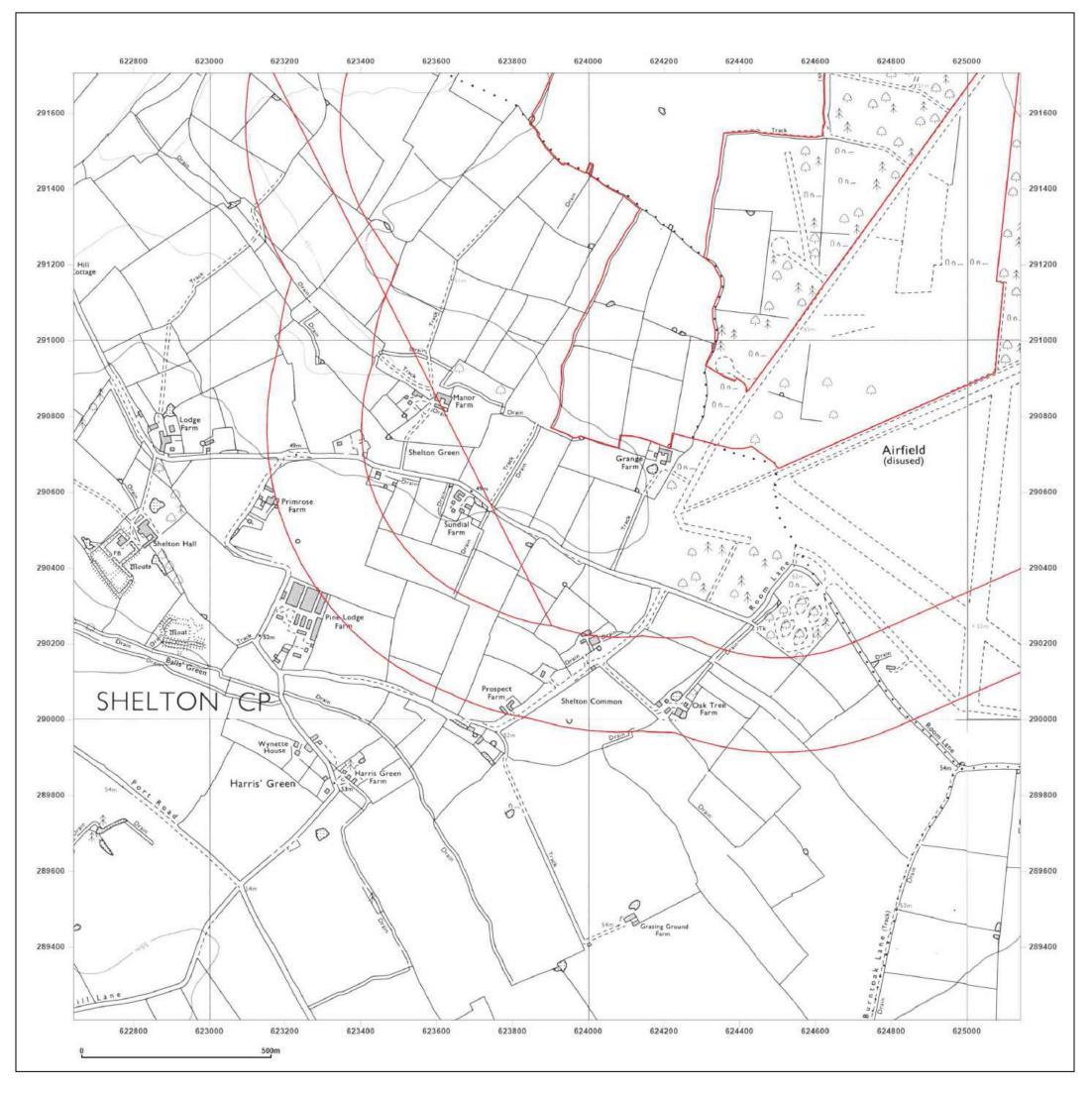
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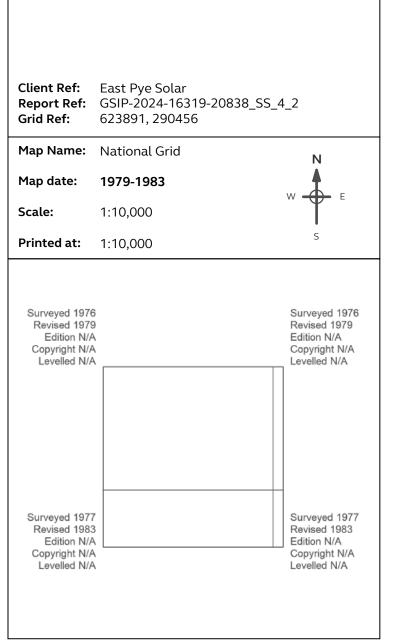
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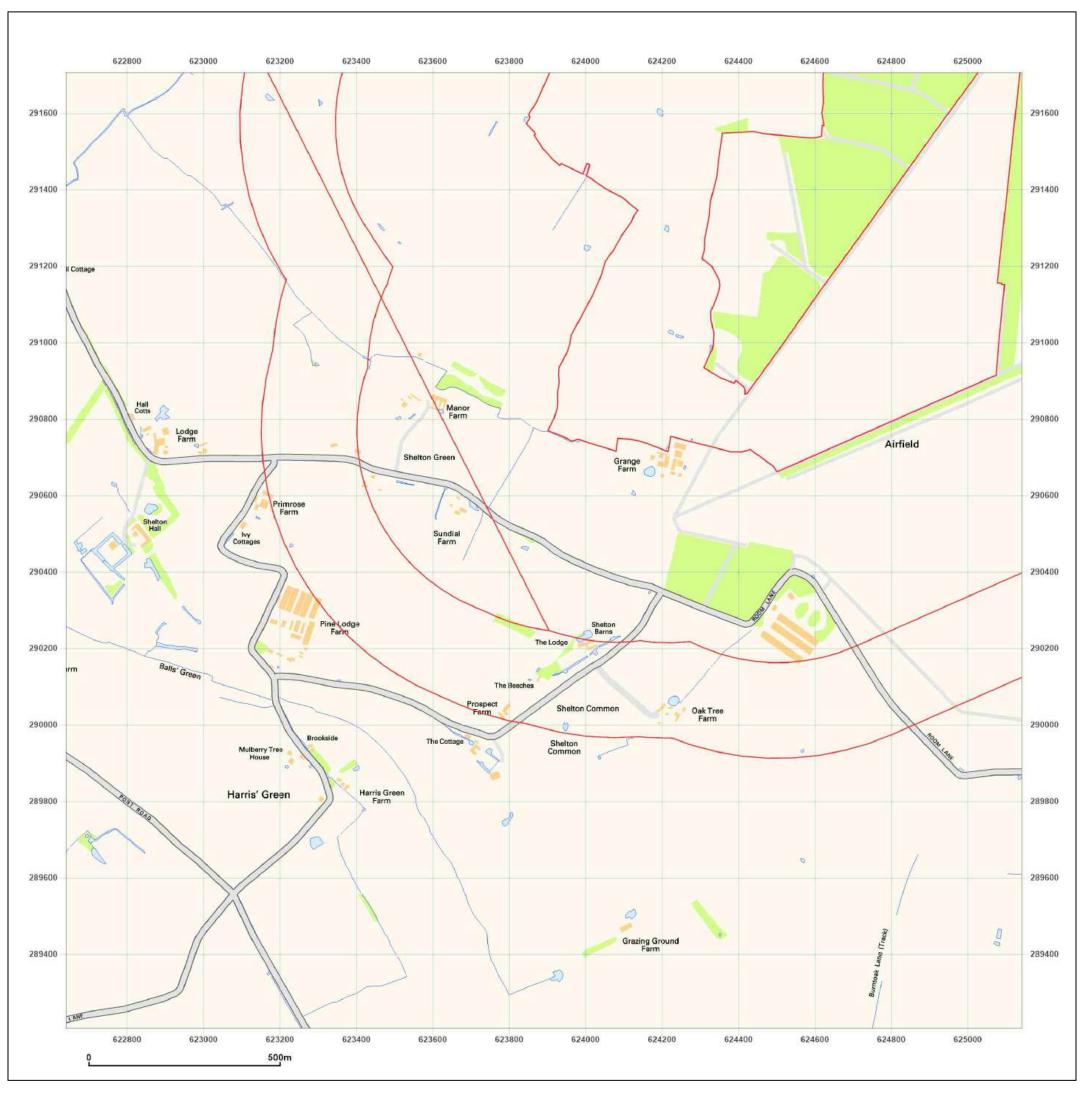
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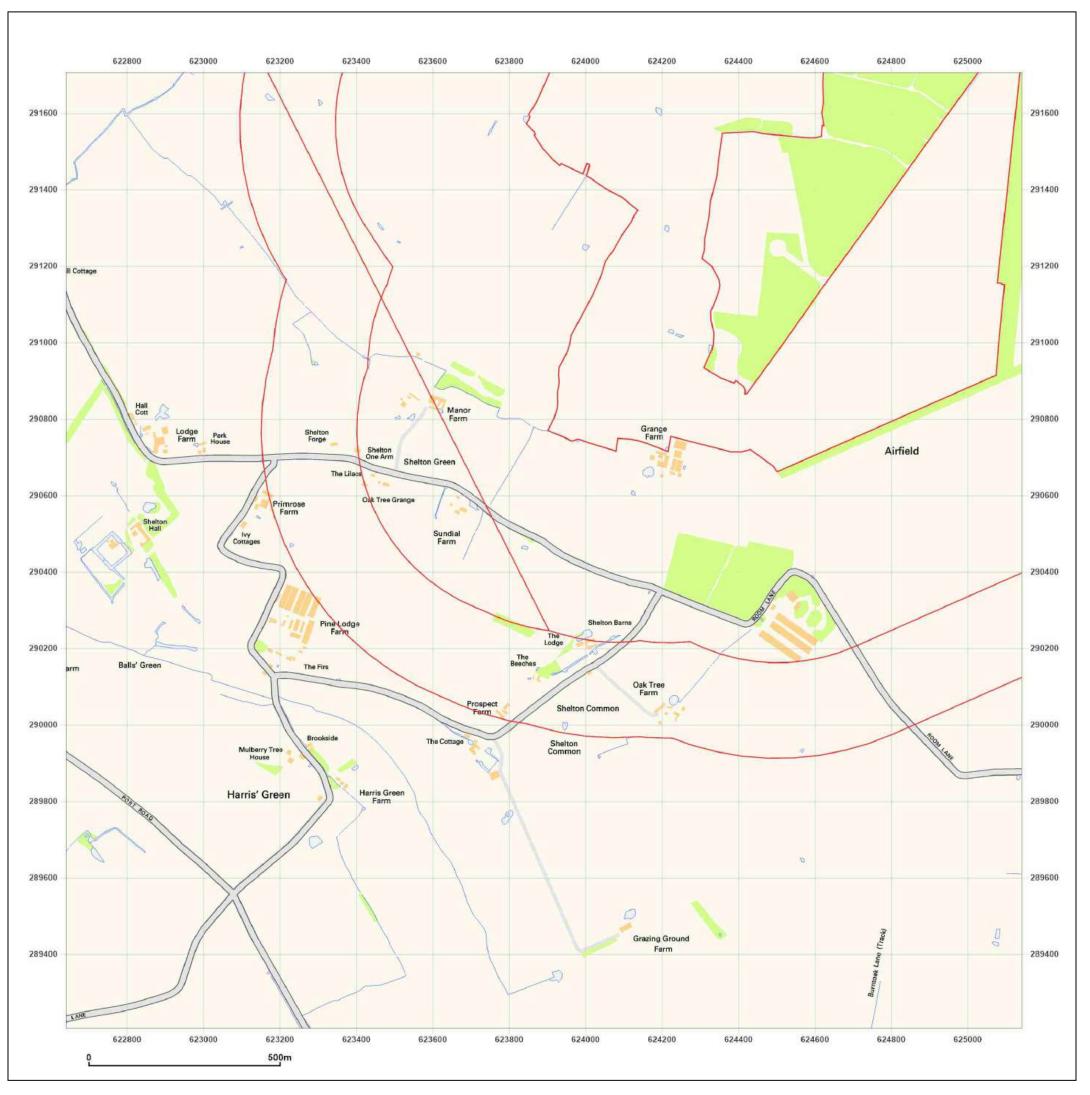
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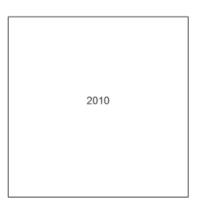
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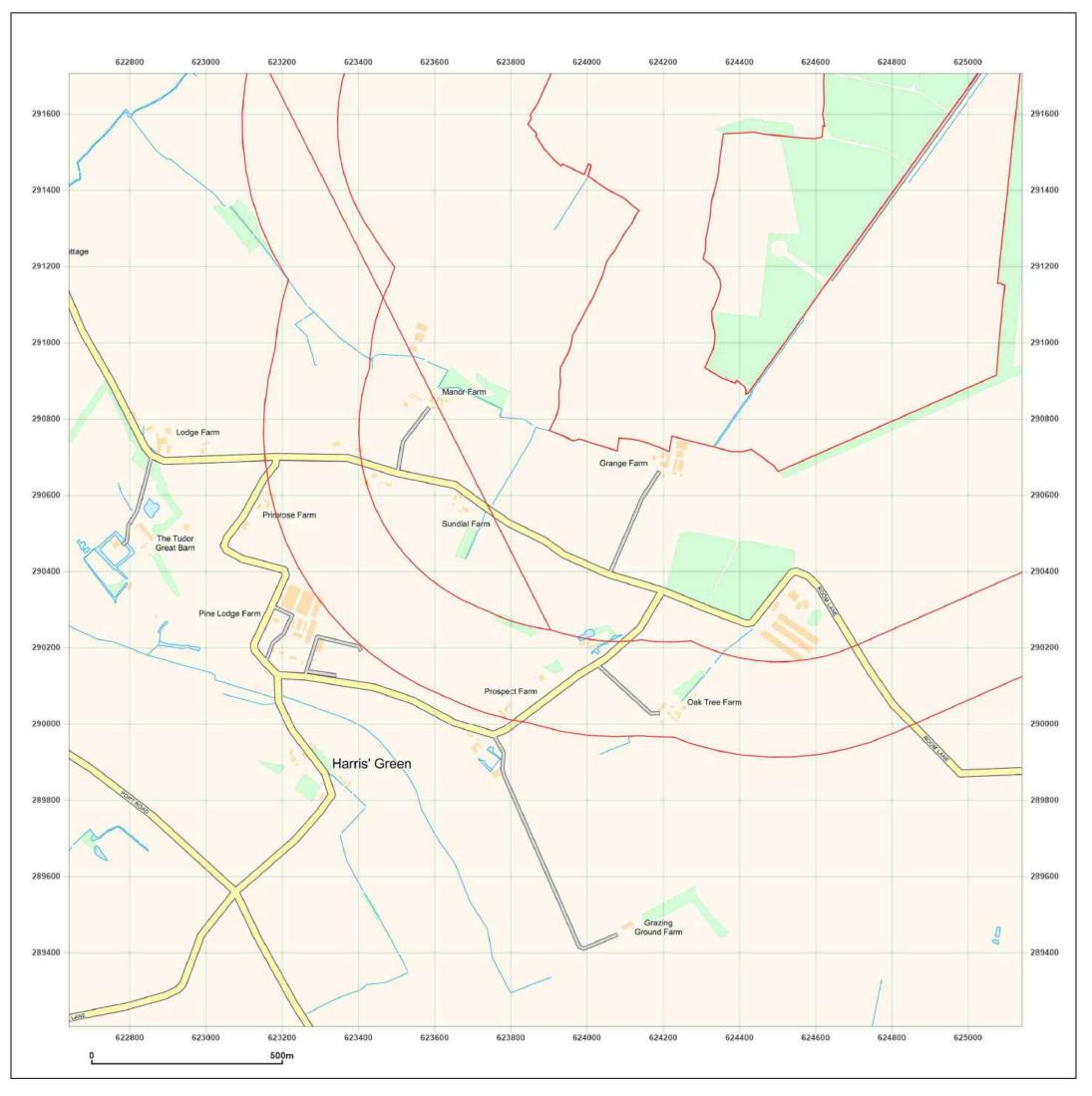




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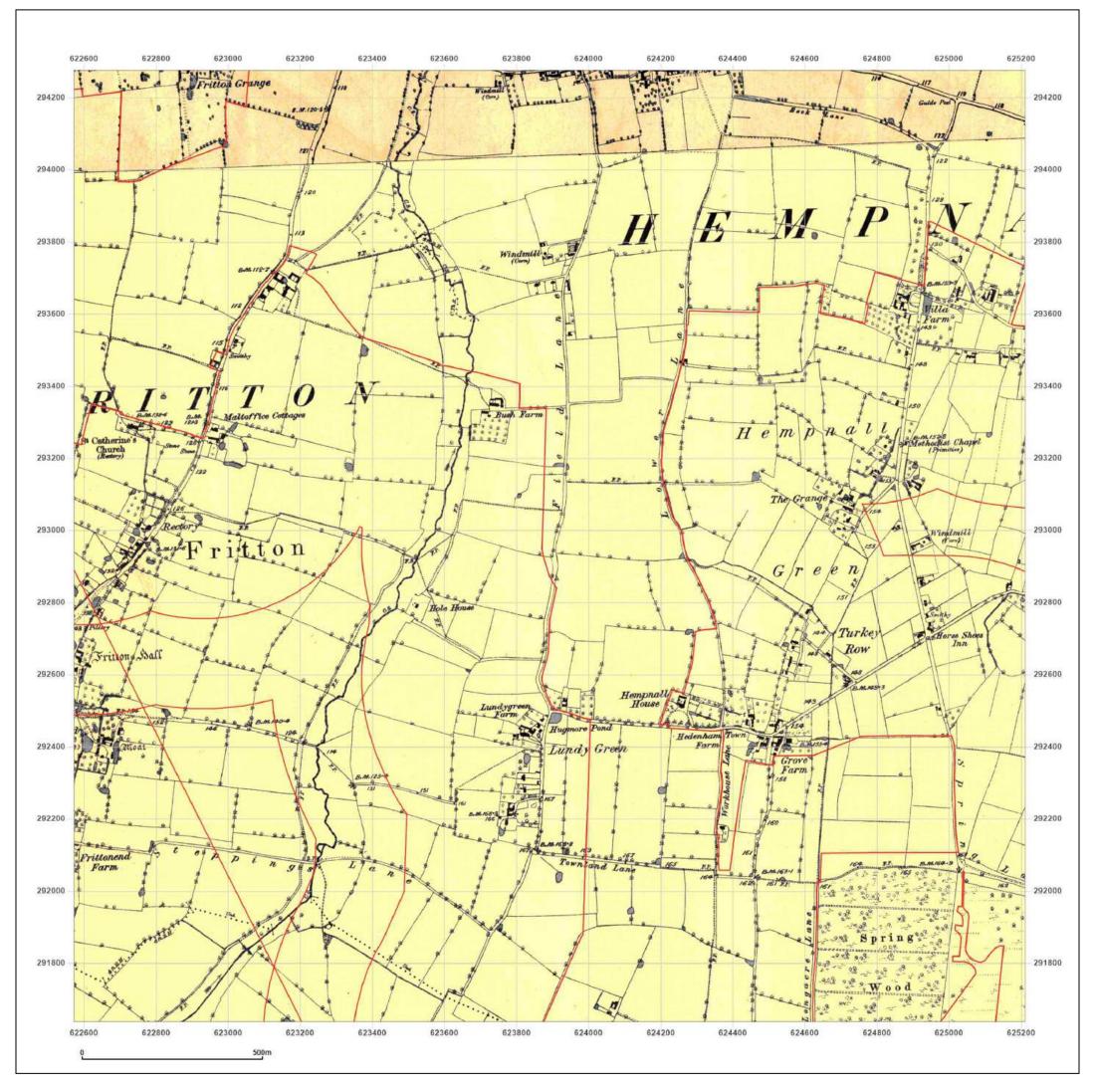
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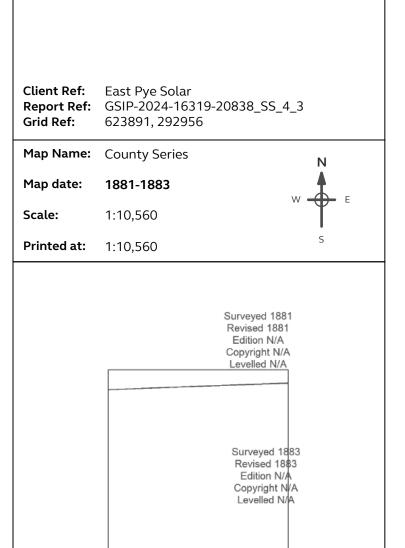
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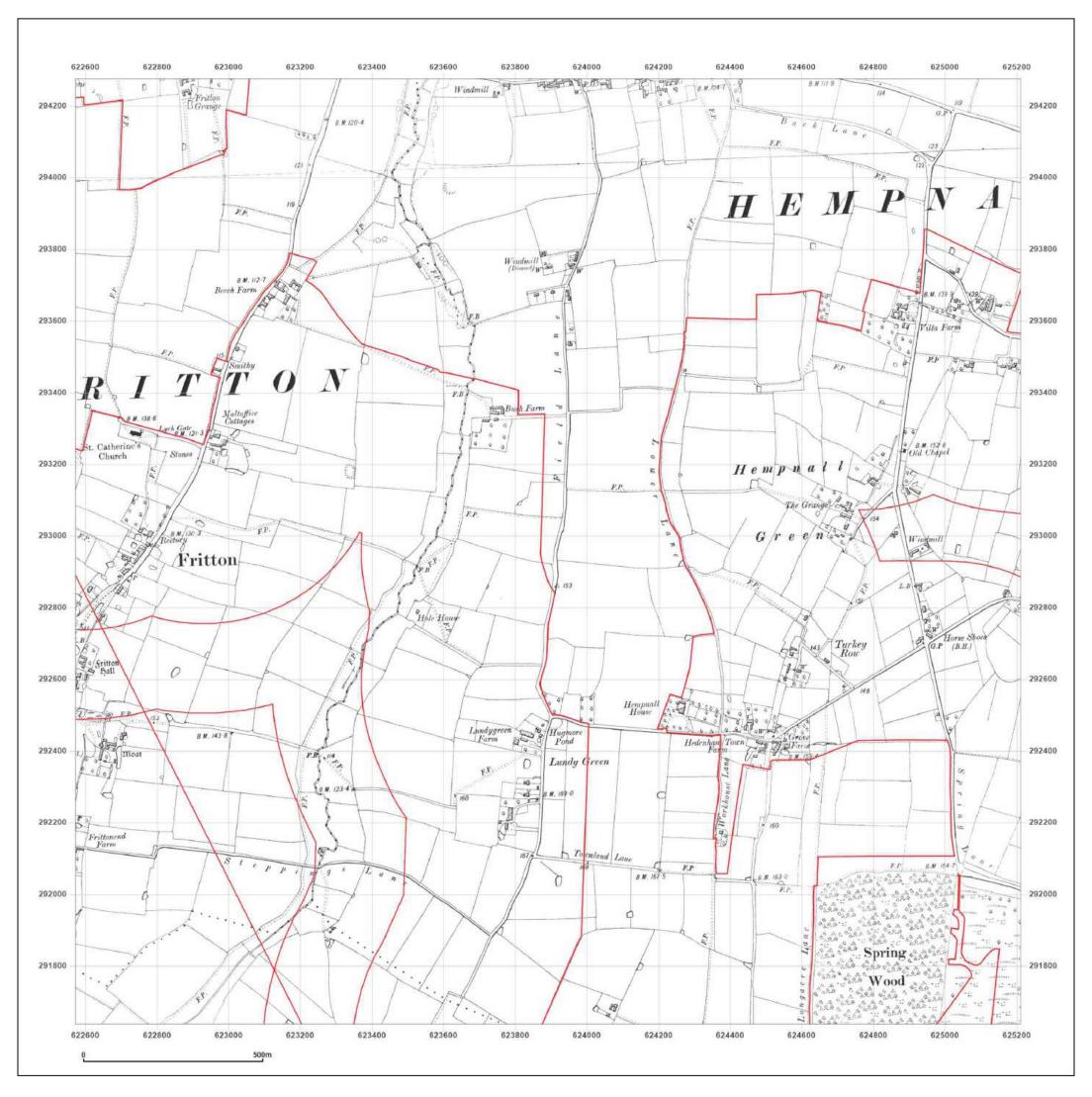




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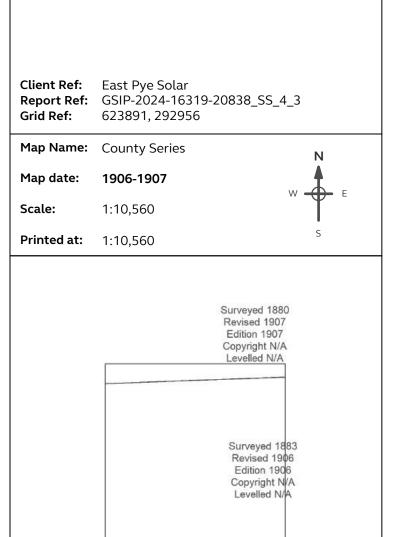
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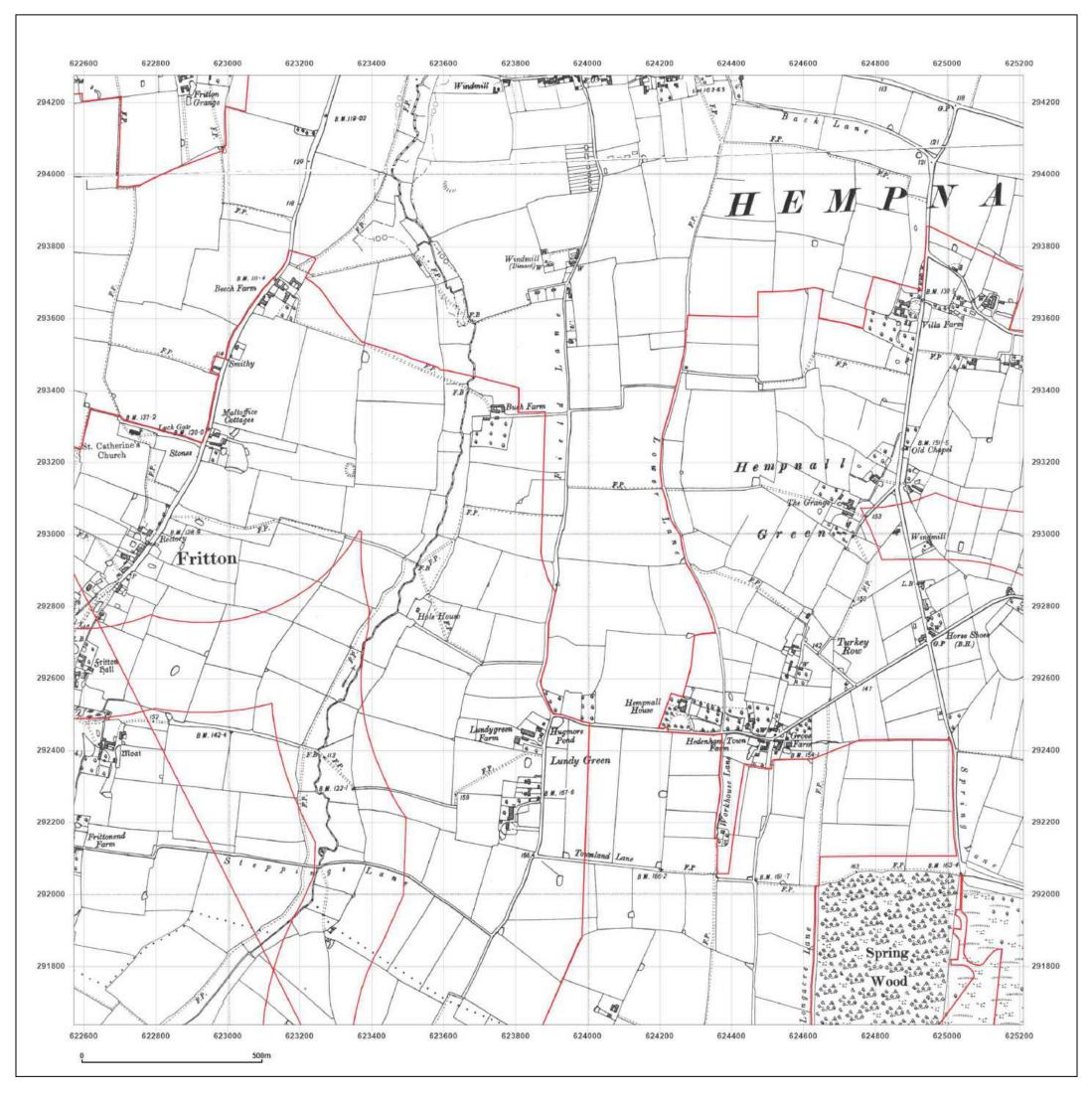


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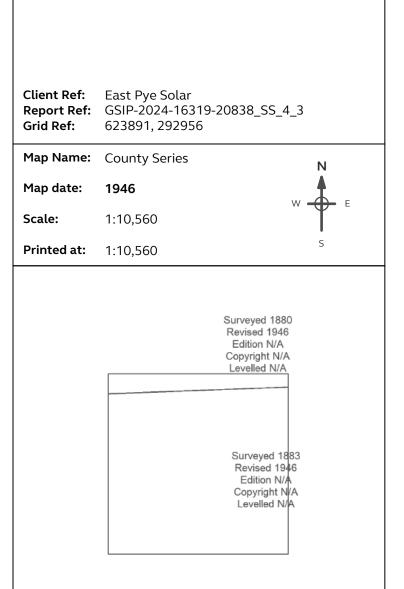
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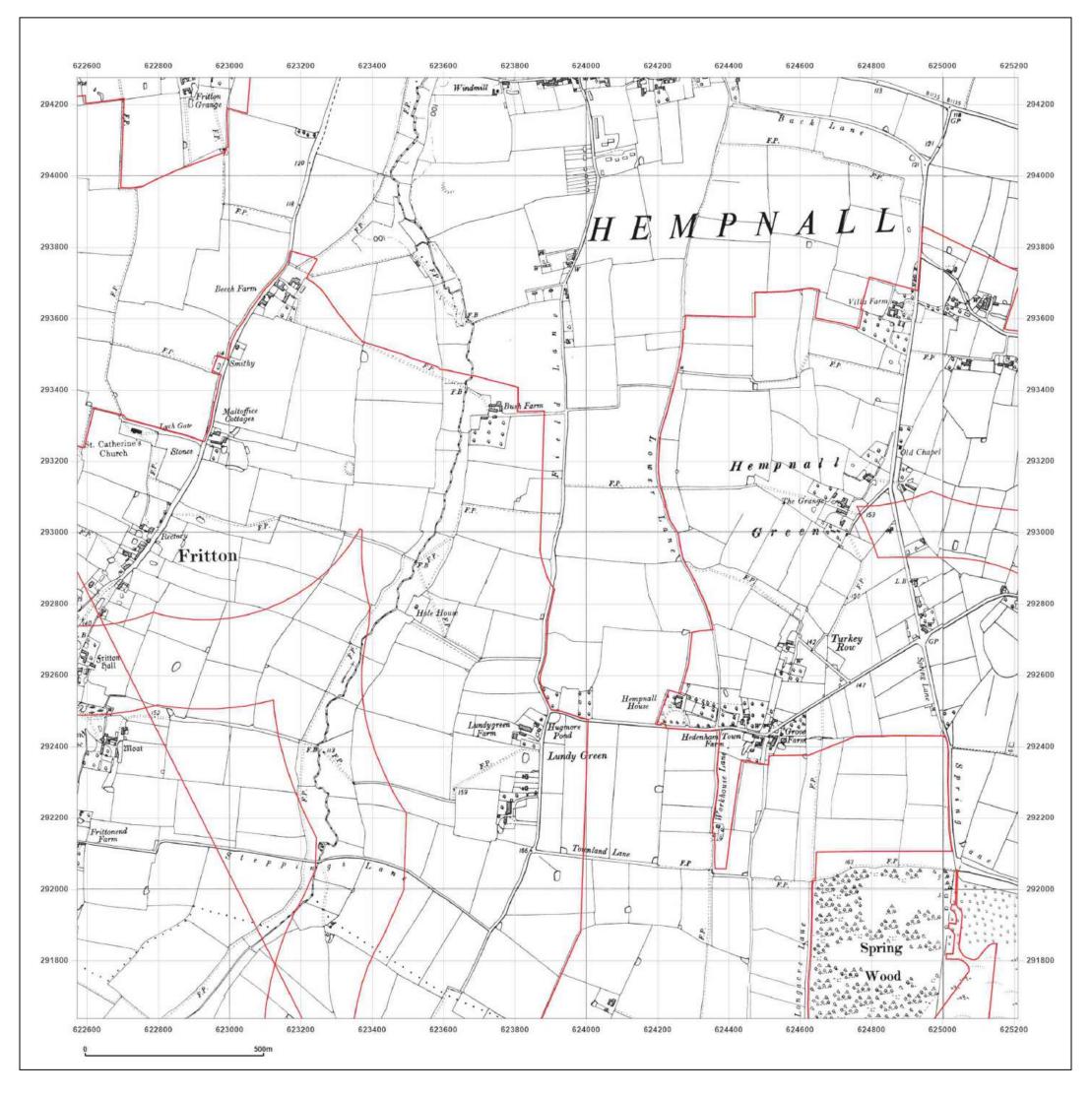
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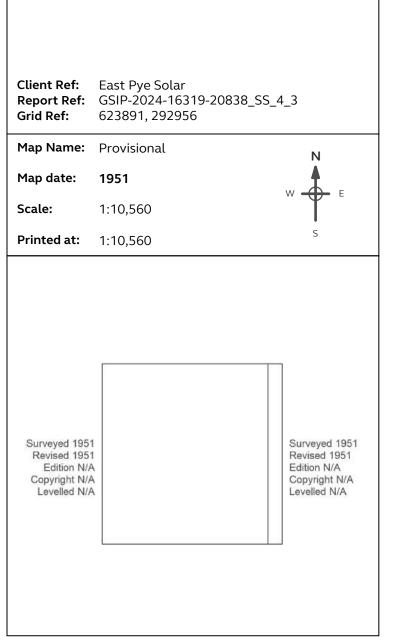
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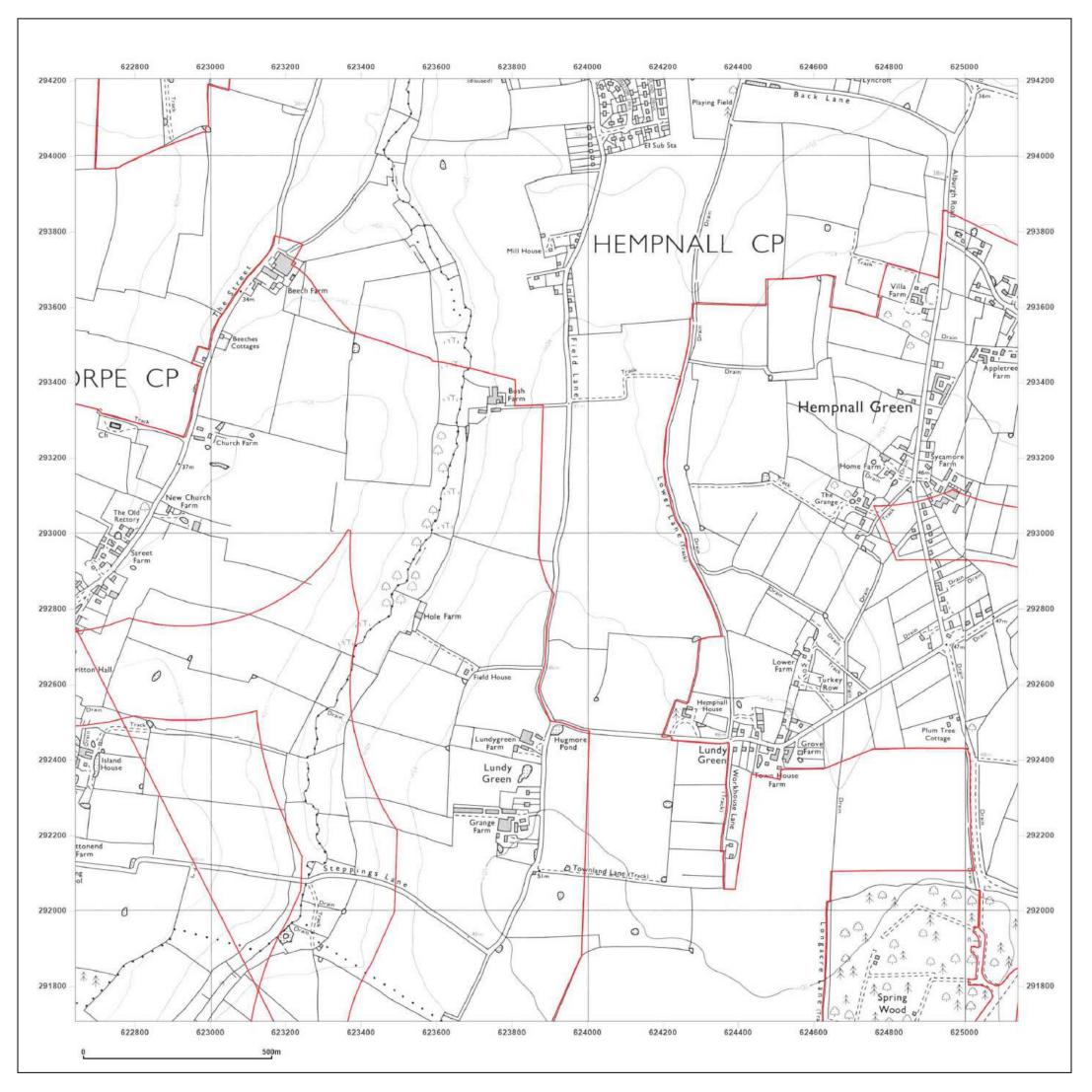
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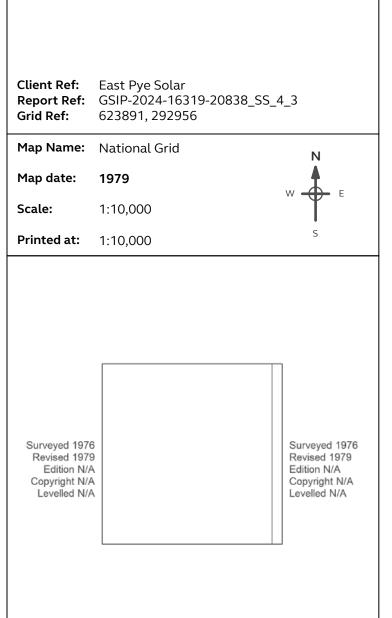
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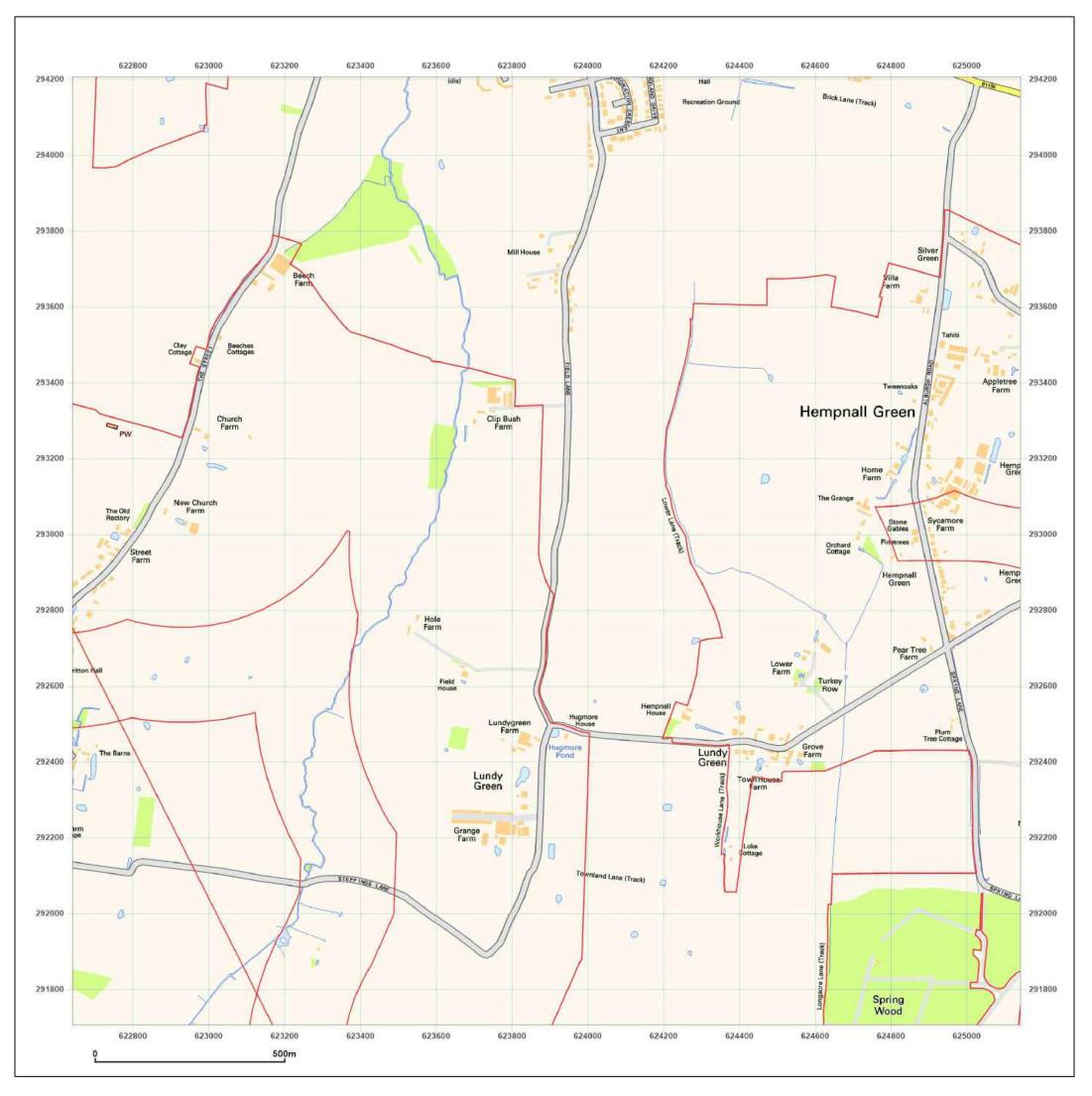
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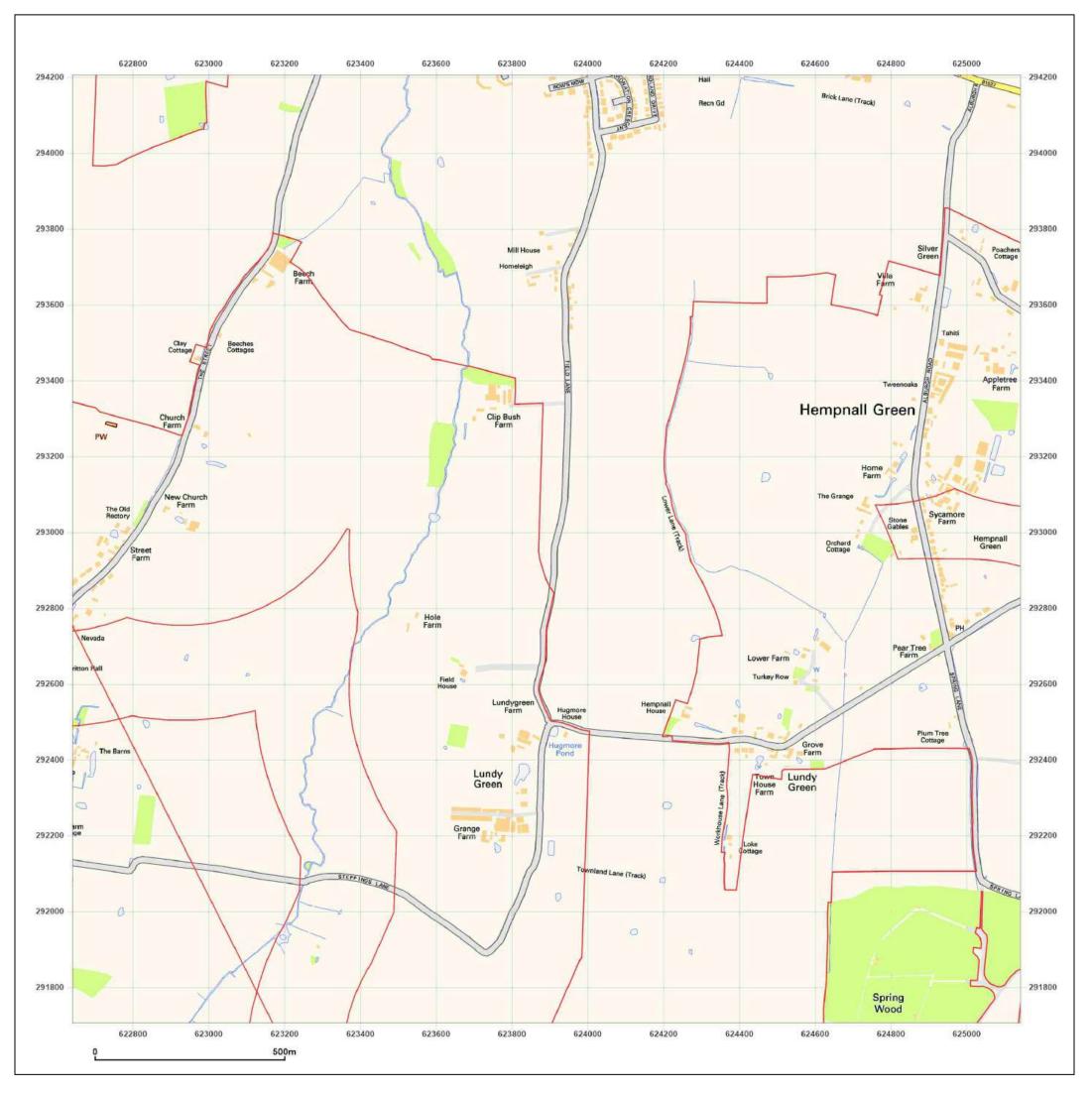
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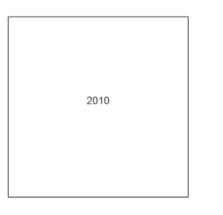




Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 292956	4_3
Map Name:	National Grid	Ν
Map date:	2010	
Scale:	1:10,000	
Printed at:	1:10,000	S

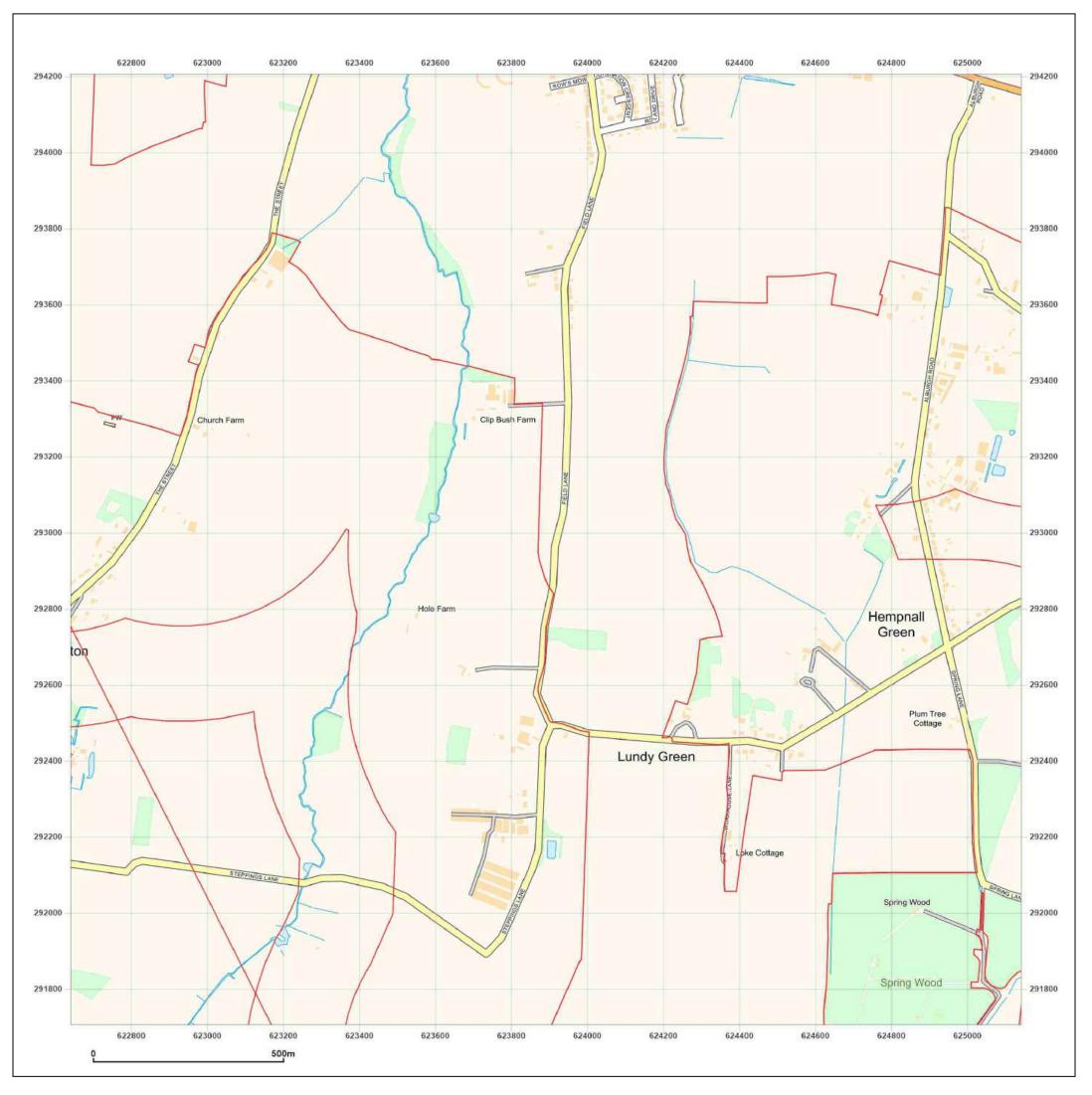




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Production date: 22 August 2024



M <u>w</u>



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 292956	_3
Map Name:	National Grid	N
Map date:	2024	w E
Scale:	1:10,000	Ψ L
Printed at:	1:10,000	S

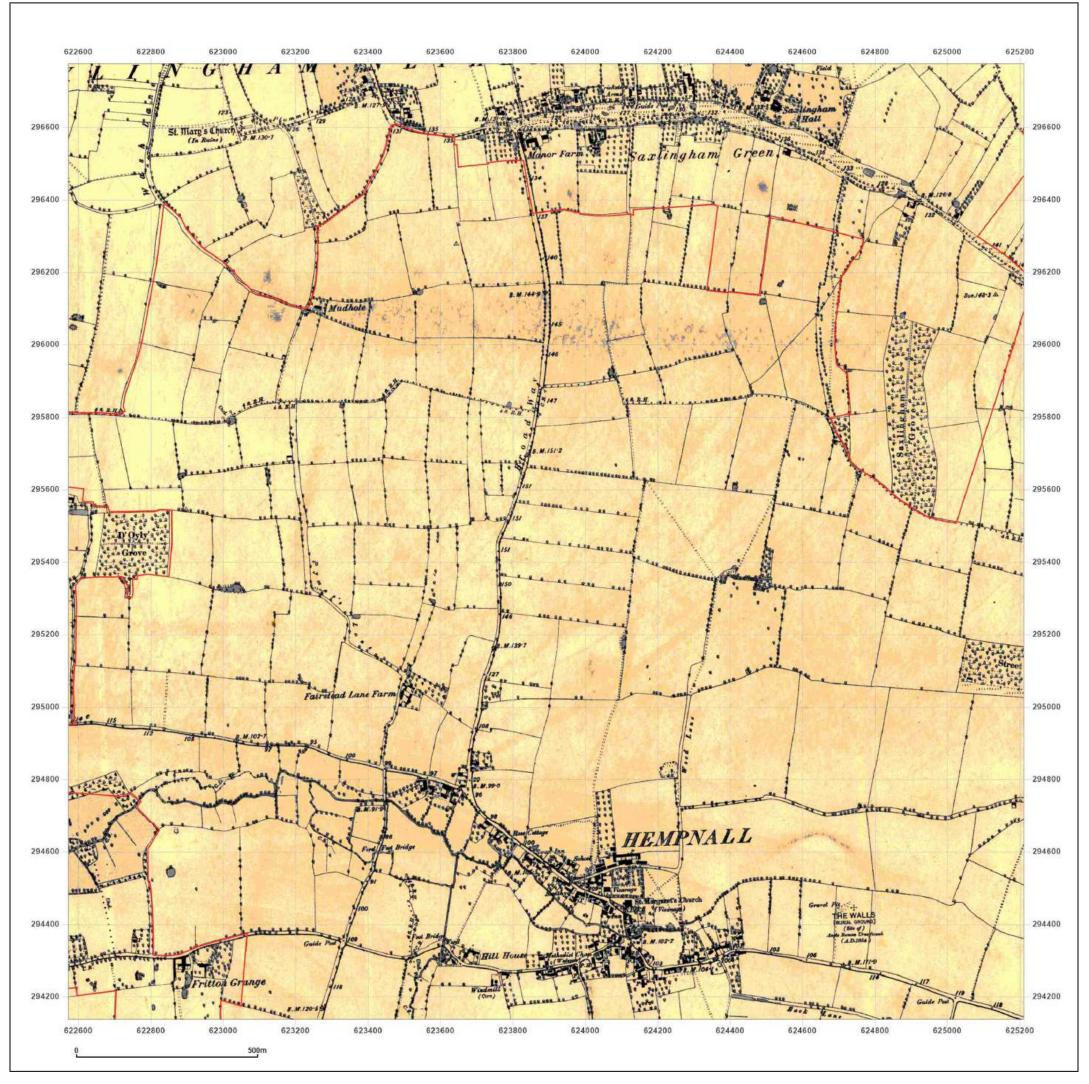
2024	



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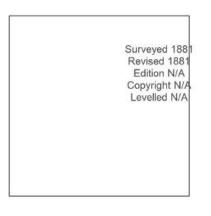
Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4_4 623891, 295456	
Map Name:	County Series N	
Map date:	1881 w	
Scale:	1:10,560	
Printed at:	1:10,560 <sup>S</sup>	

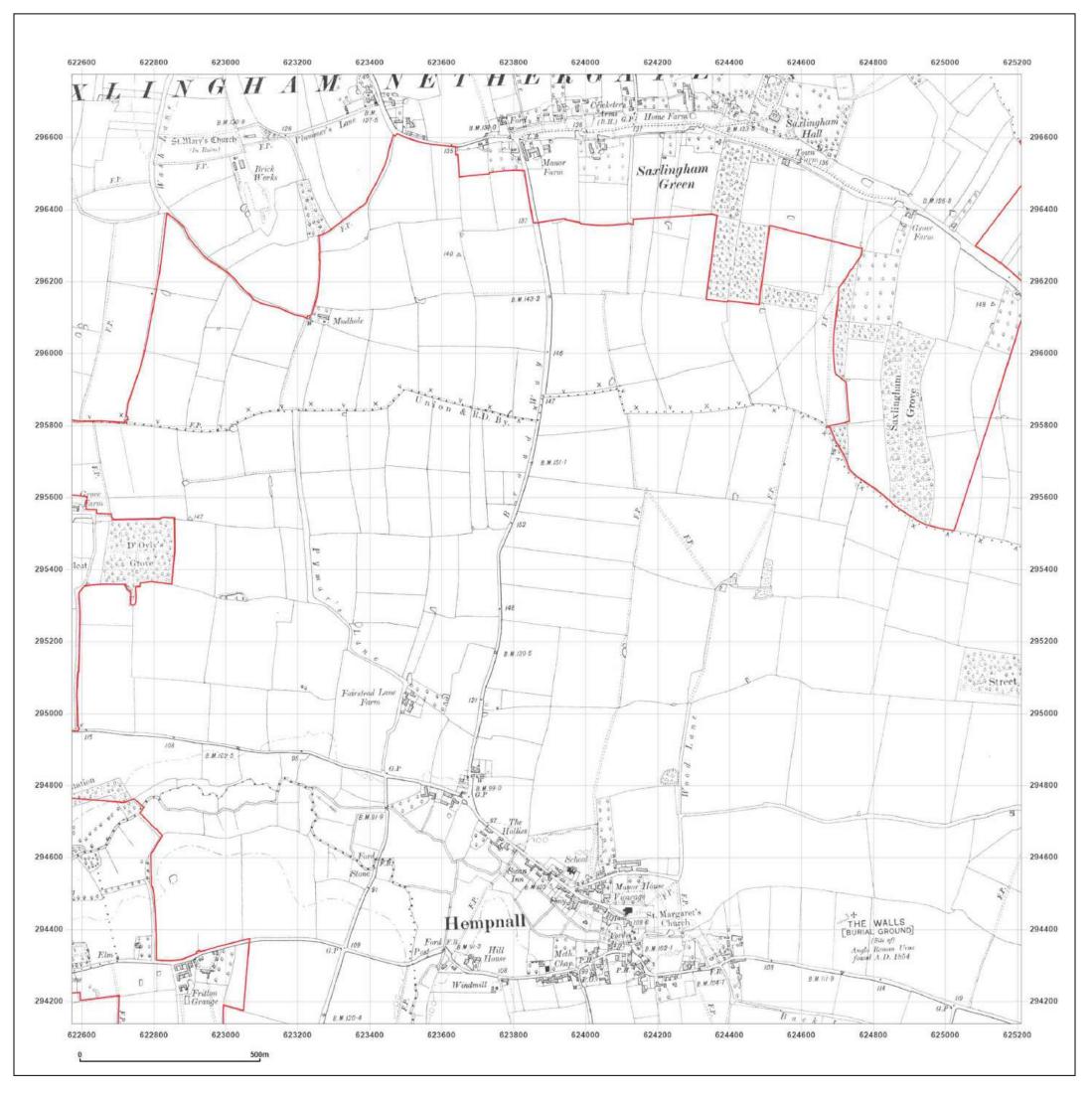




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Production date: 22 August 2024



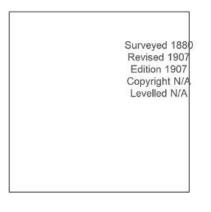
M W



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	,
Map Name:	County Series N
Map date:	1907 w 🖡 E
Scale:	1:10,560
Printed at:	1:10,560 <sup>S</sup>

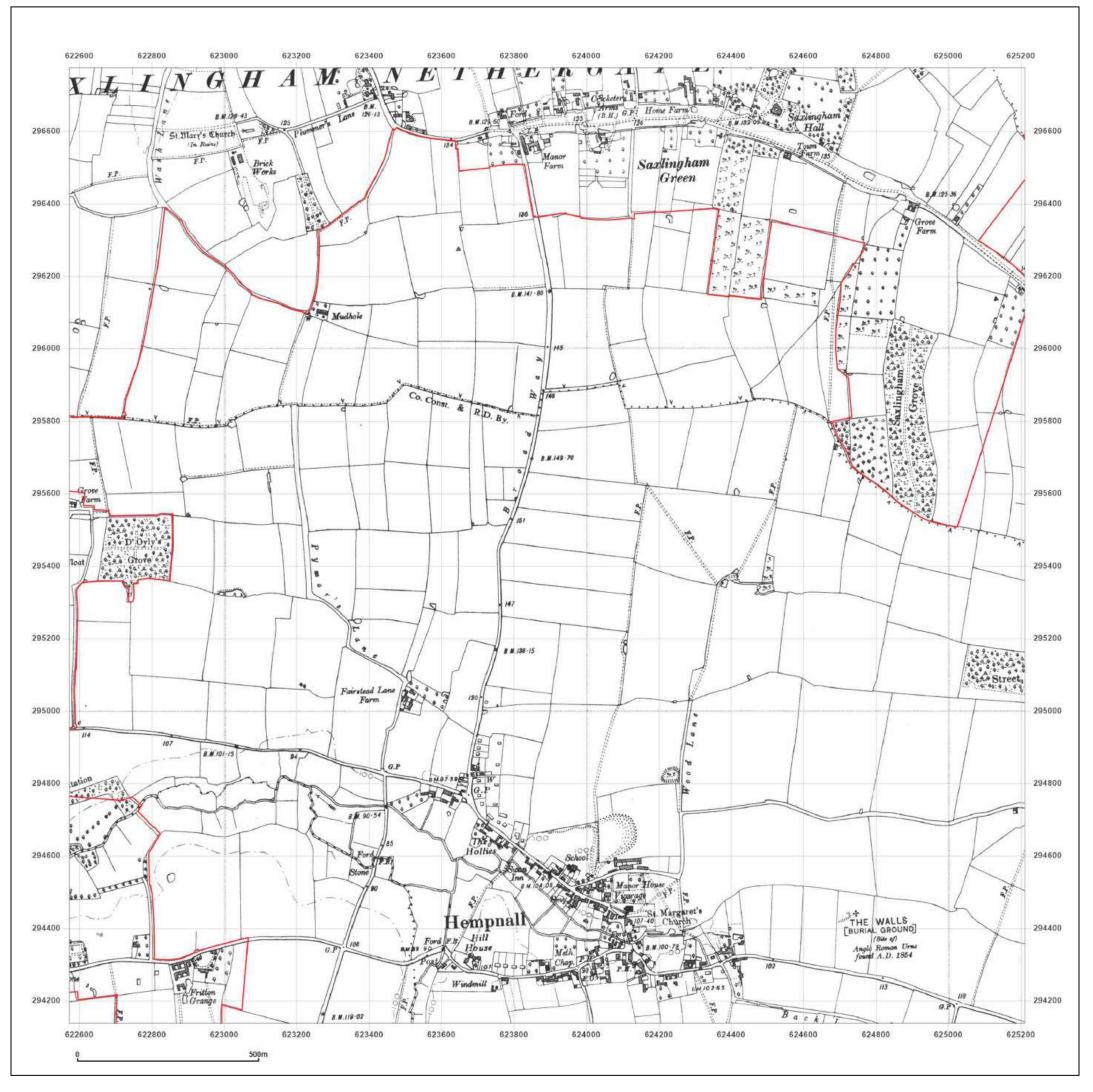




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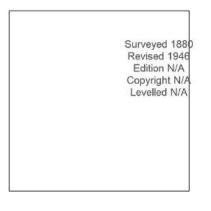
Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton

	East Pye Solar GSIP-2024-16319-20838_SS_4_4 623891, 295456
Map Name:	County Series N
Map date:	1946
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>

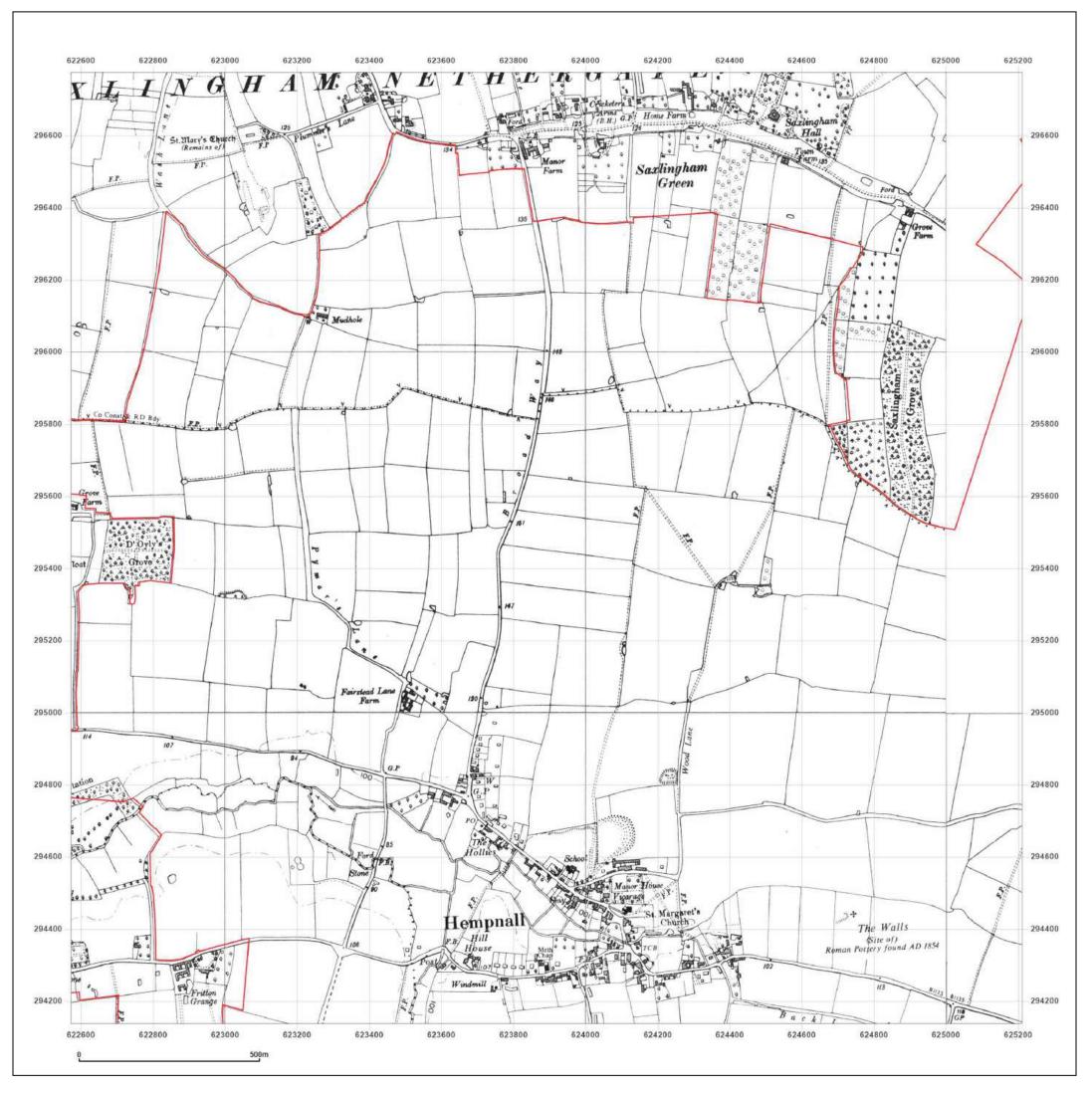




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Production date: 22 August 2024

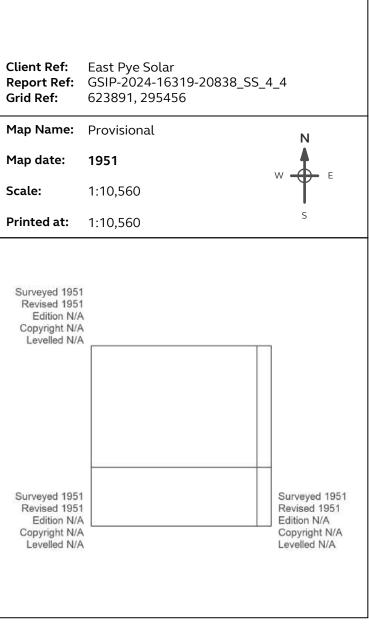


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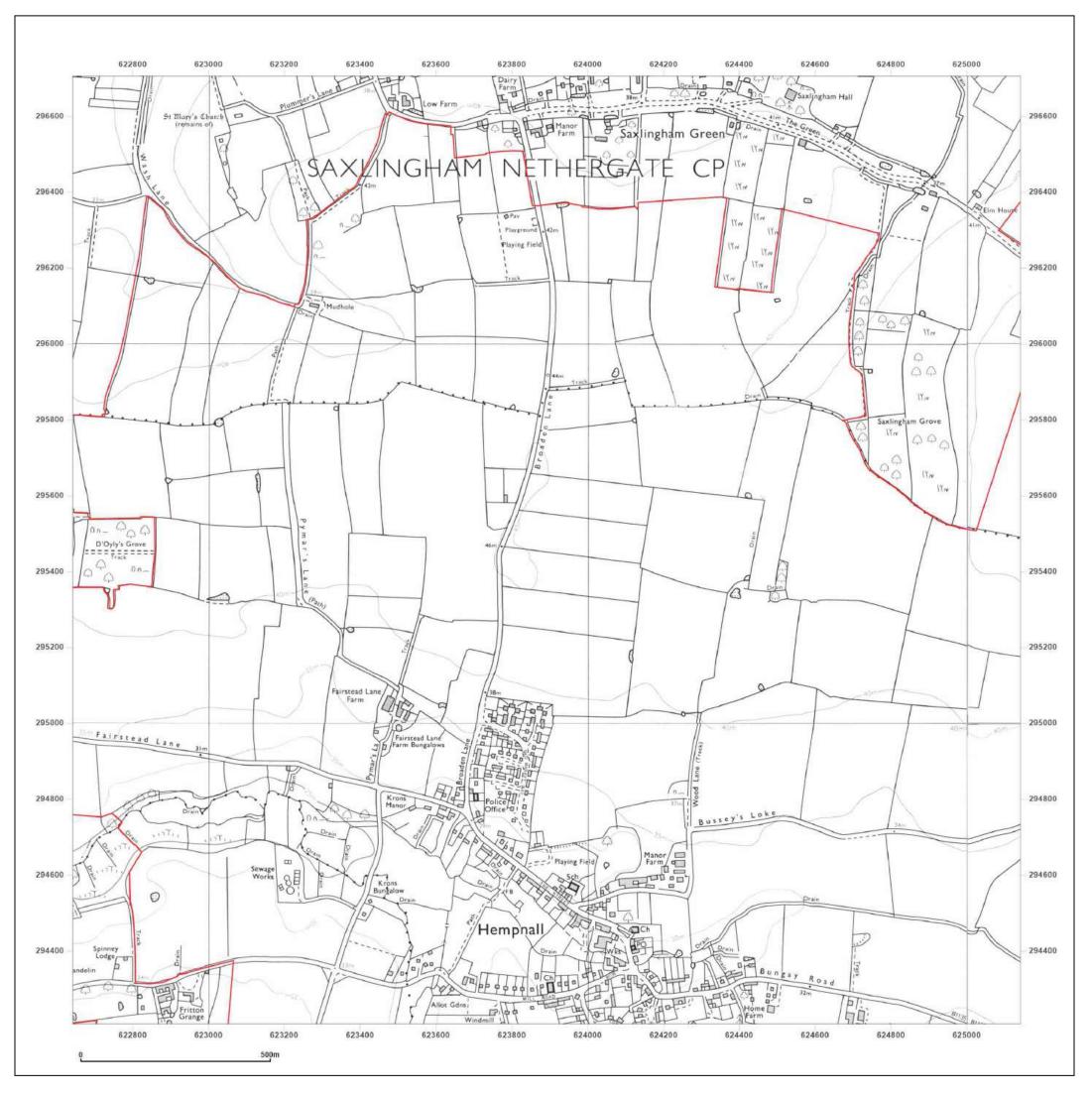
Long Stratton





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Production date: 22 August 2024

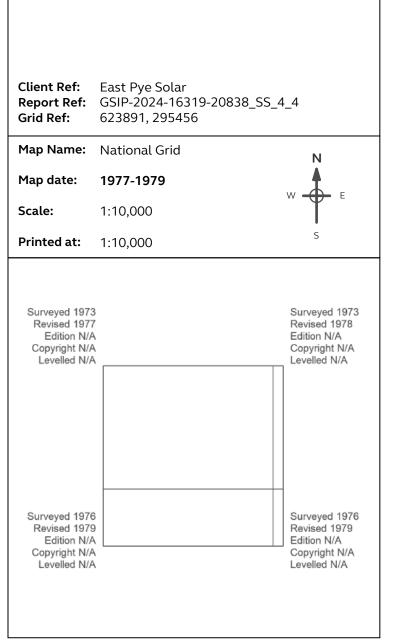


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Site Details:

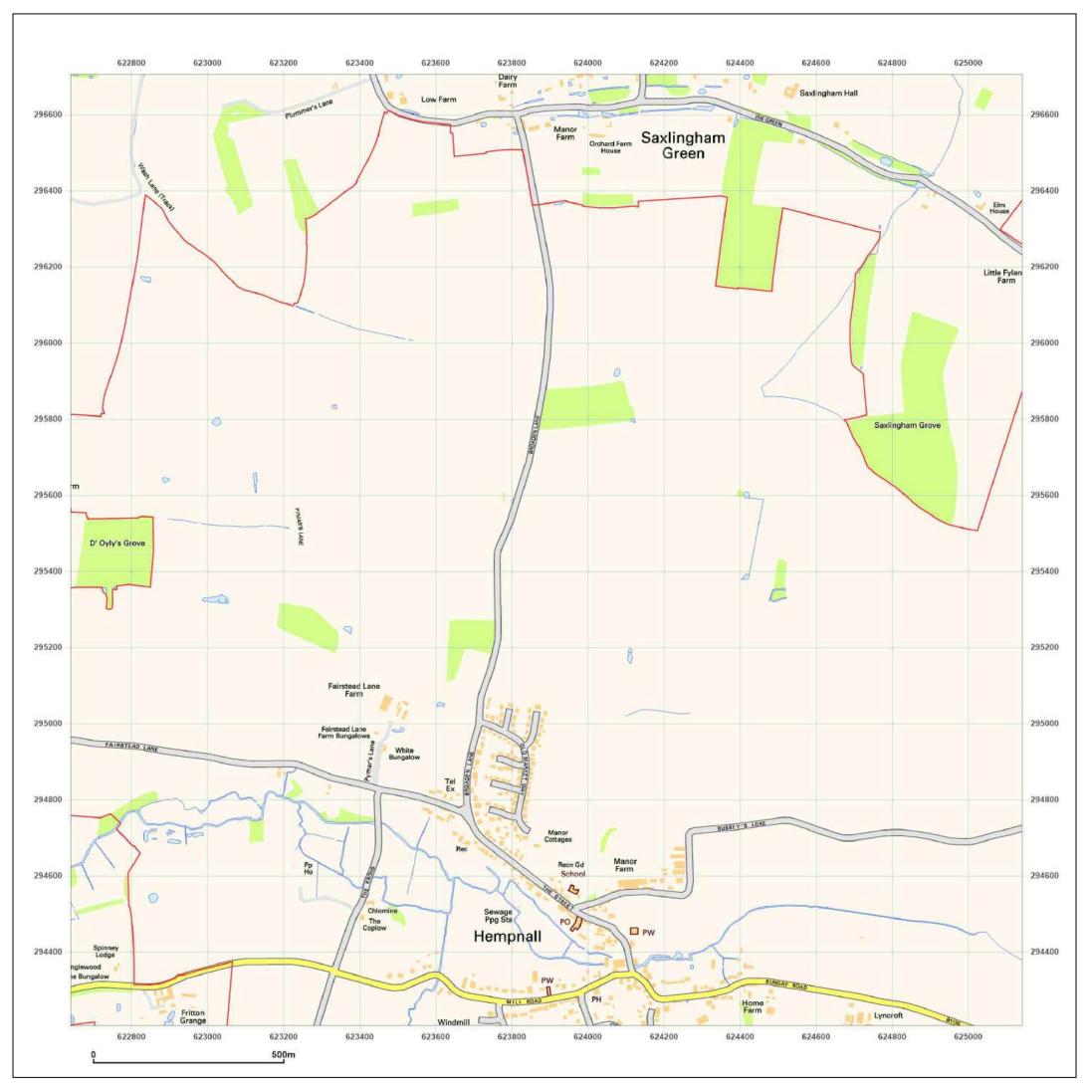
Long Stratton





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Production date: 22 August 2024



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4_4 623891, 295456	4
Map Name:	National Grid	N
Map date:	2001	
Scale:	1:10,000	
Printed at:	1:10,000	S

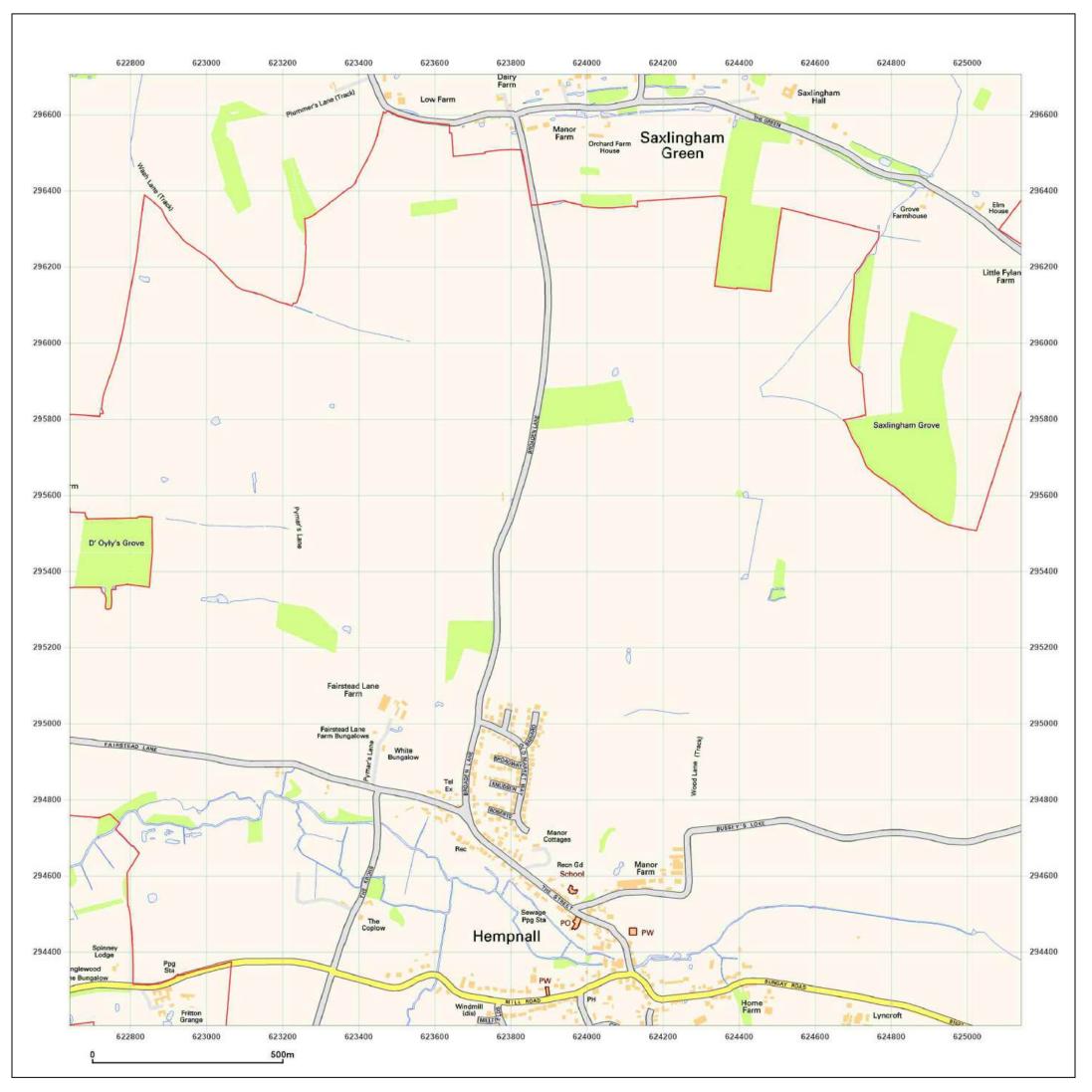
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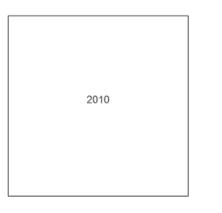
M W



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 295456	l_4
Map Name:	National Grid	Ν
Map date:	2010	W E
Scale:	1:10,000	Ϋ́Υ -
Printed at:	1:10,000	S

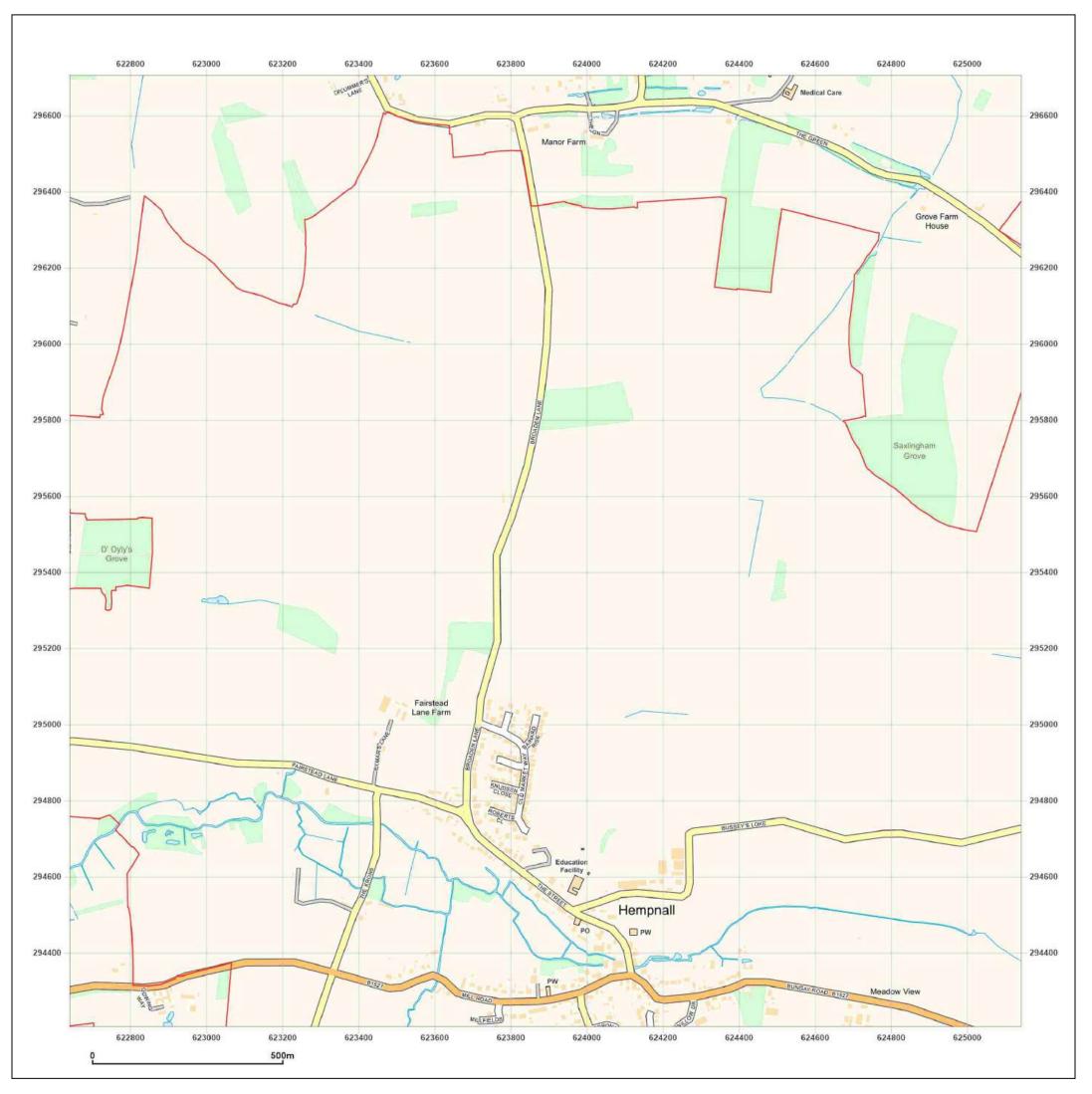




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Production date: 22 August 2024



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



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 295456	I_4
Map Name:	National Grid	N
Map date:	2024	W E
Scale:	1:10,000	Ť
Printed at:	1:10,000	S

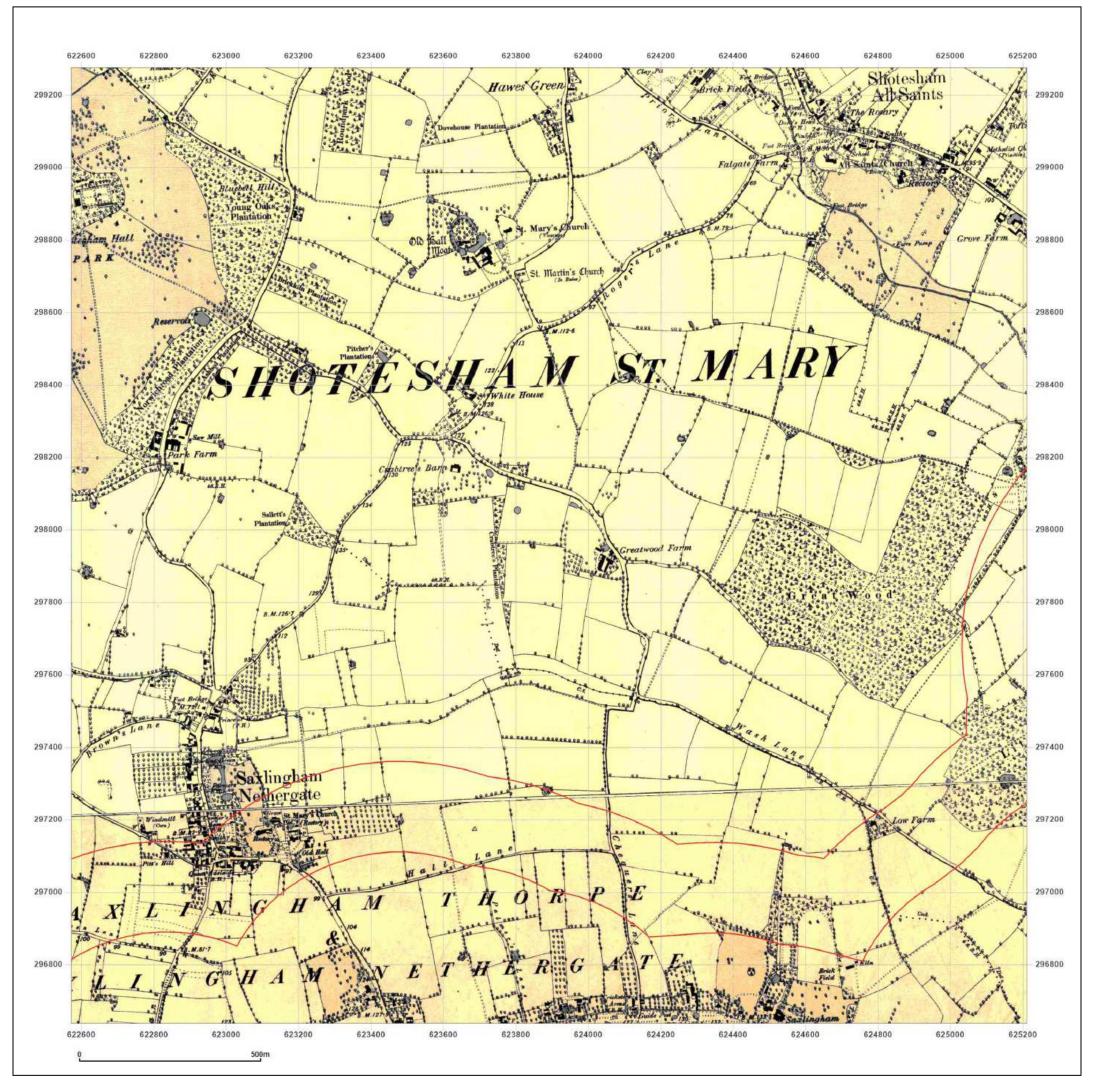
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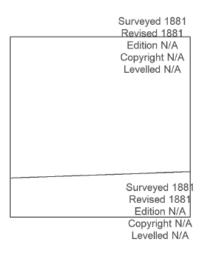
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	
Map Name:	County Series N
Map date:	1881 W
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>





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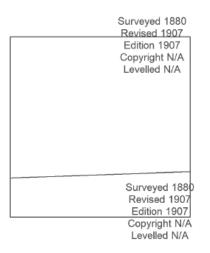
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Site Details:

Long Stratton

East Pye Solar GSIP-2024-16319-20838_SS_4_5 623891, 297956
County Series N
1907 w E
1:10,560
1:10,560 <sup>s</sup>

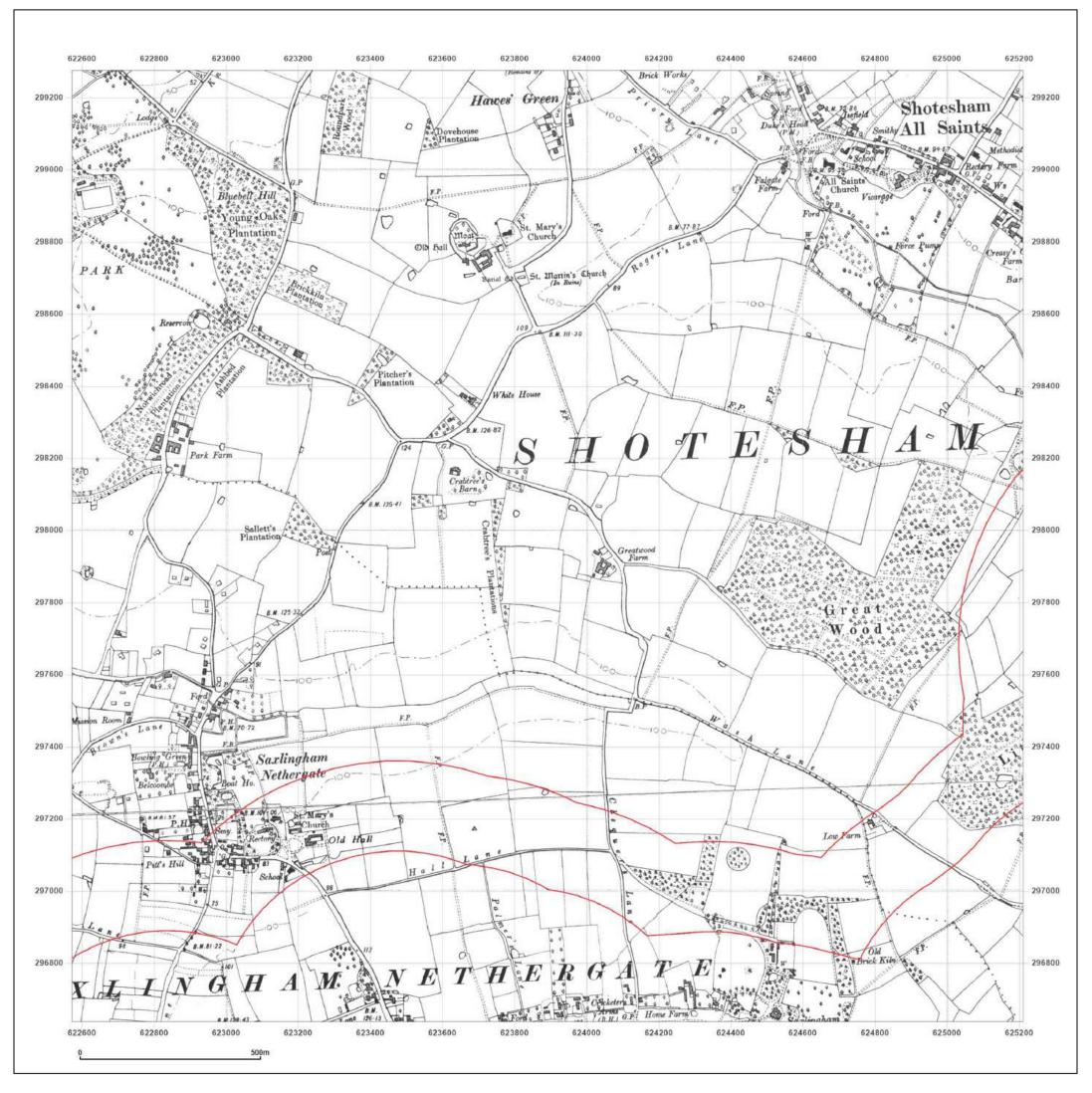




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Production date: 22 August 2024



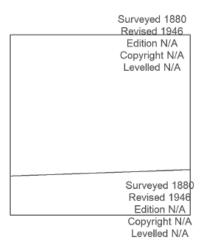
M M



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4_5 623891, 297956
Map Name:	County Series N
Map date:	1946
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>





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Production date: 22 August 2024

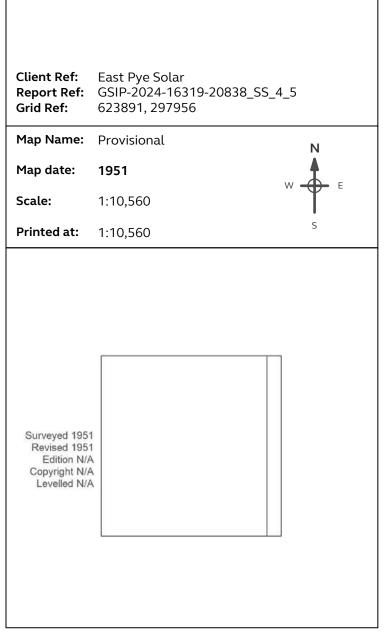


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Site Details:

Long Stratton

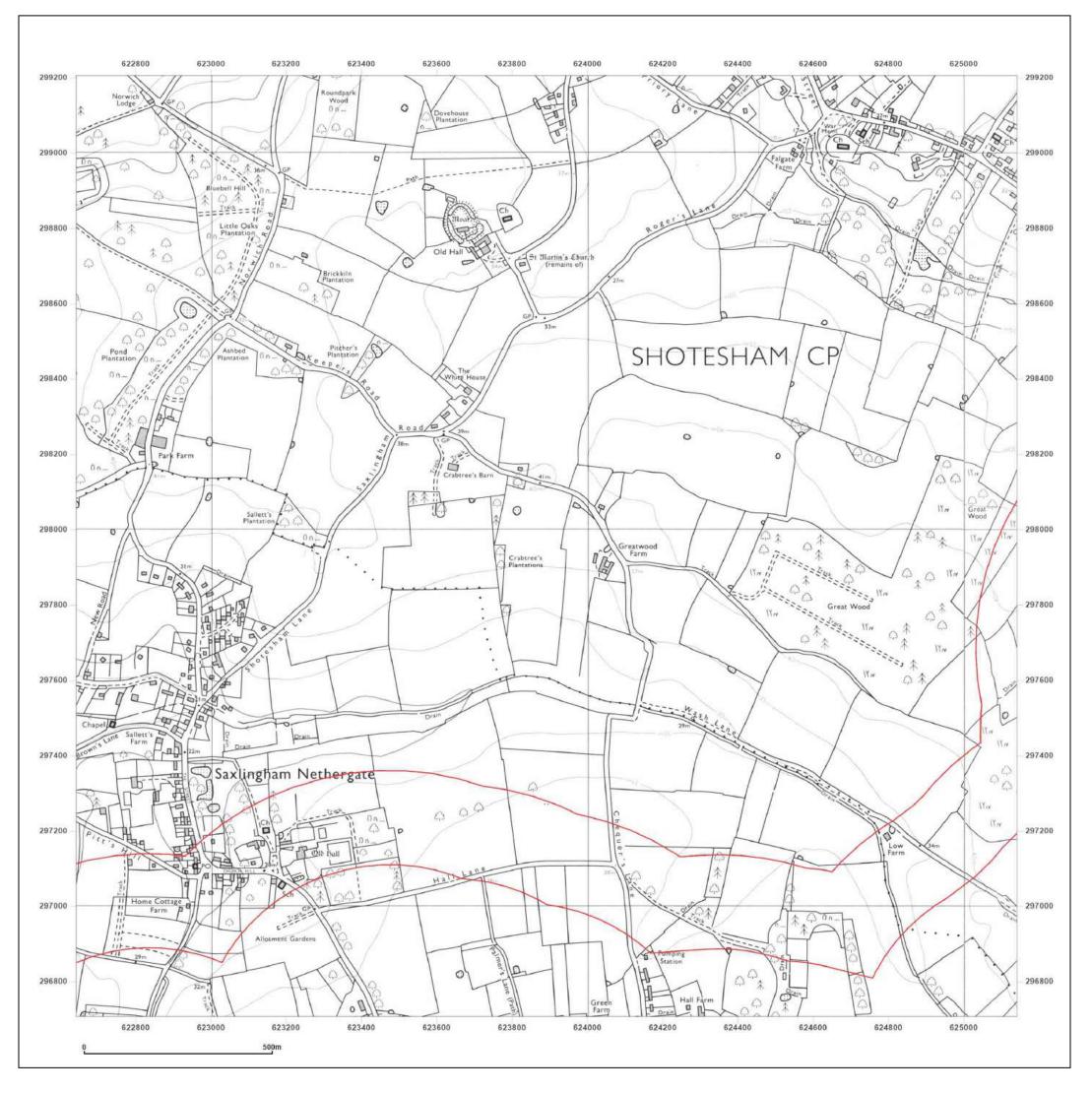




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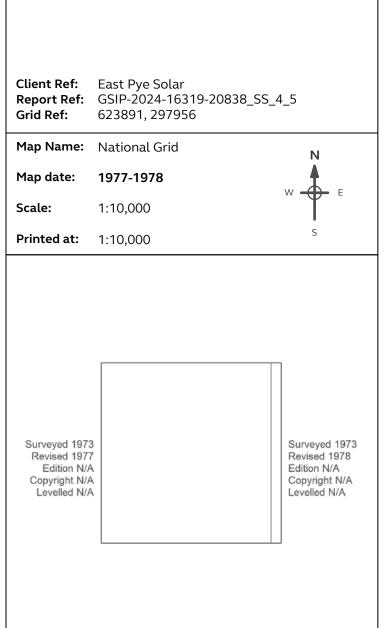


Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton

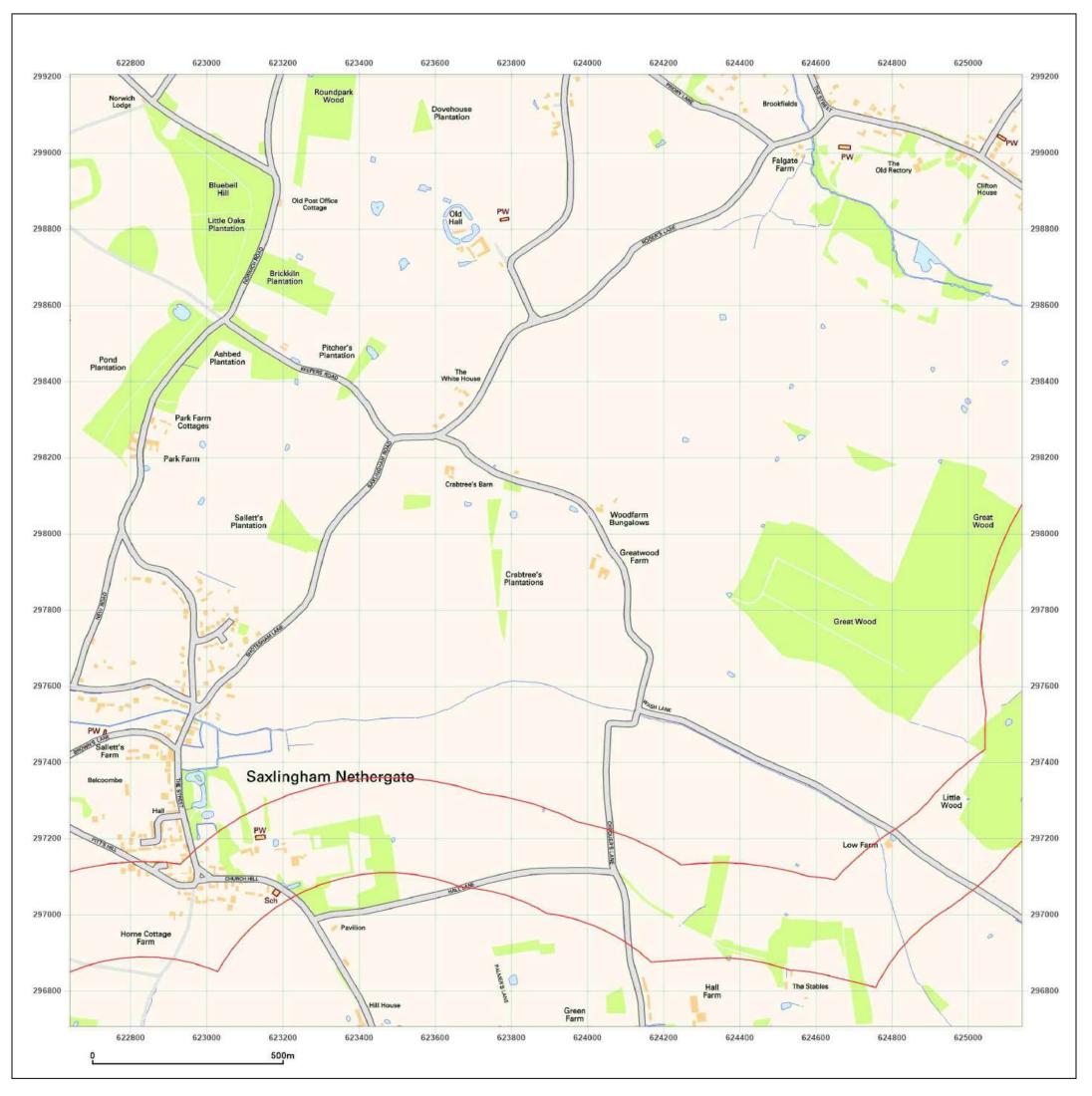




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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 297956	<b>1_</b> 5
Map Name:	National Grid	Ν
Map date:	2001	W E
Scale:	1:10,000	Ψ L
Printed at:	1:10,000	S

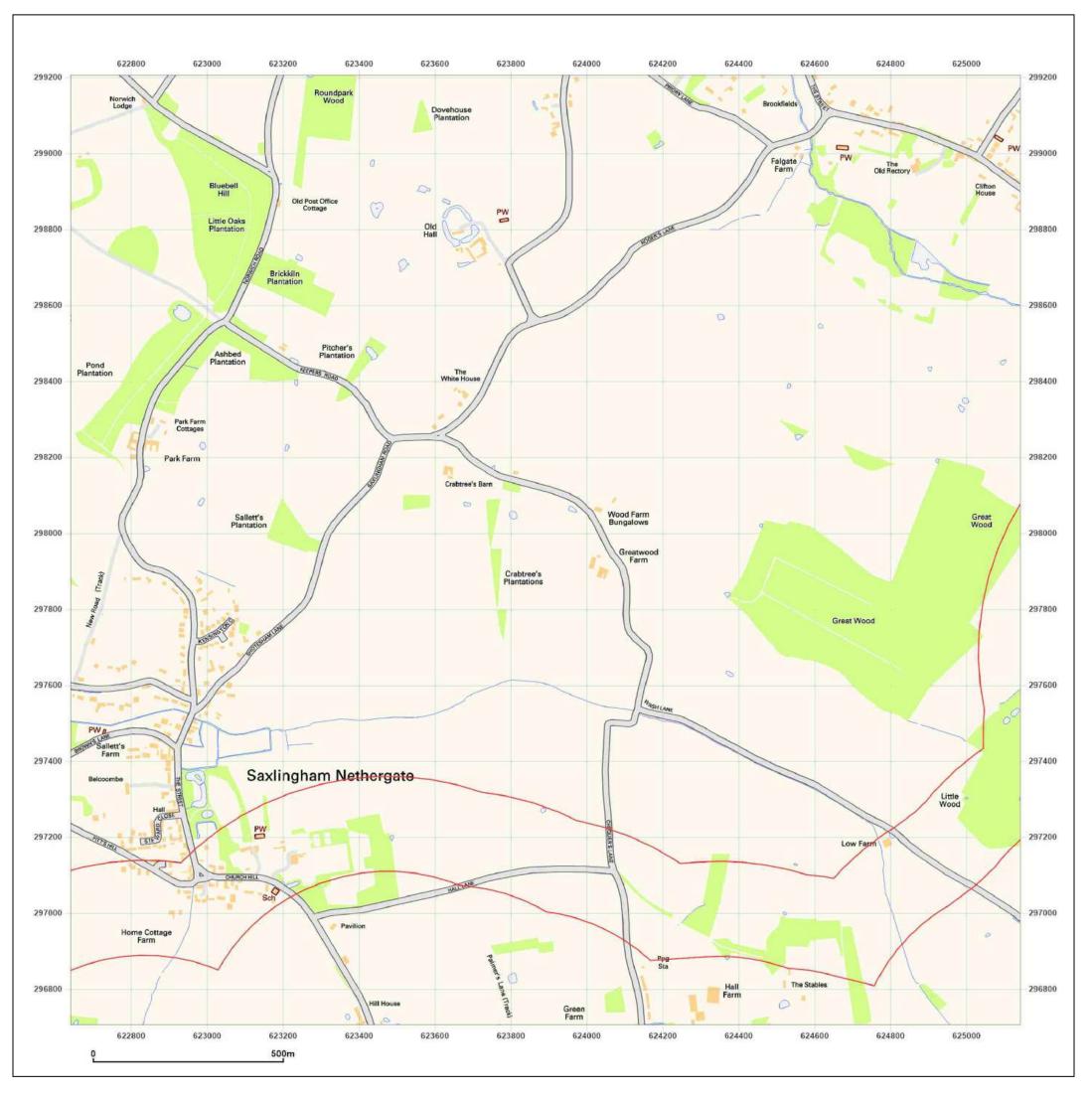
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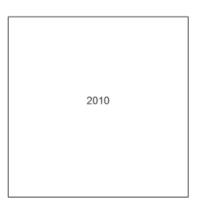
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 297956	4_5
Map Name:	National Grid	Ν
Map date:	2010	
Scale:	1:10,000	" <b>T</b>
Printed at:	1:10,000	S

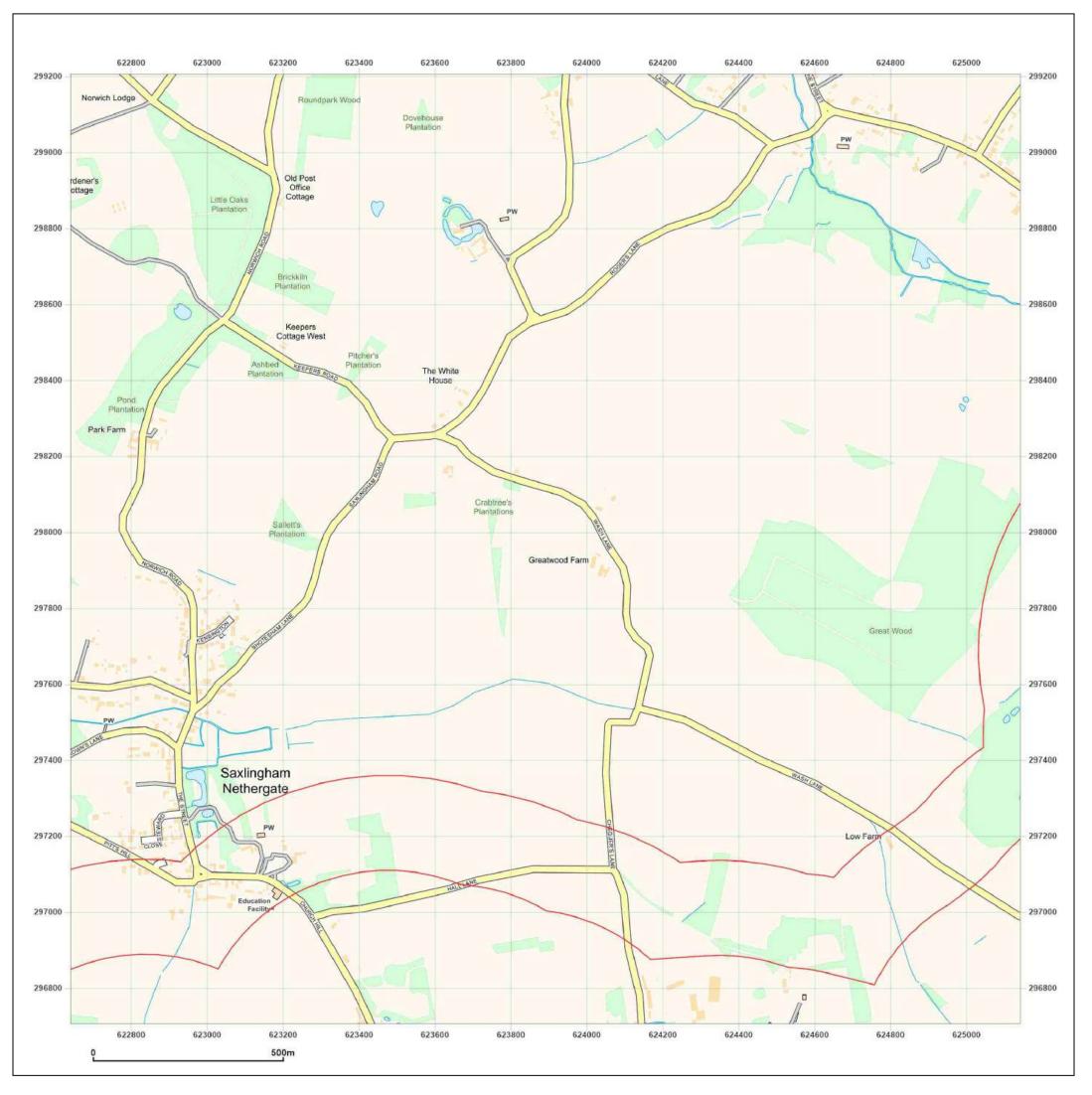




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Production date: 22 August 2024



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



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_4 623891, 297956	_5
Map Name:	National Grid	N
Map date:	2024	W E
Scale:	1:10,000	
Printed at:	1:10,000	S

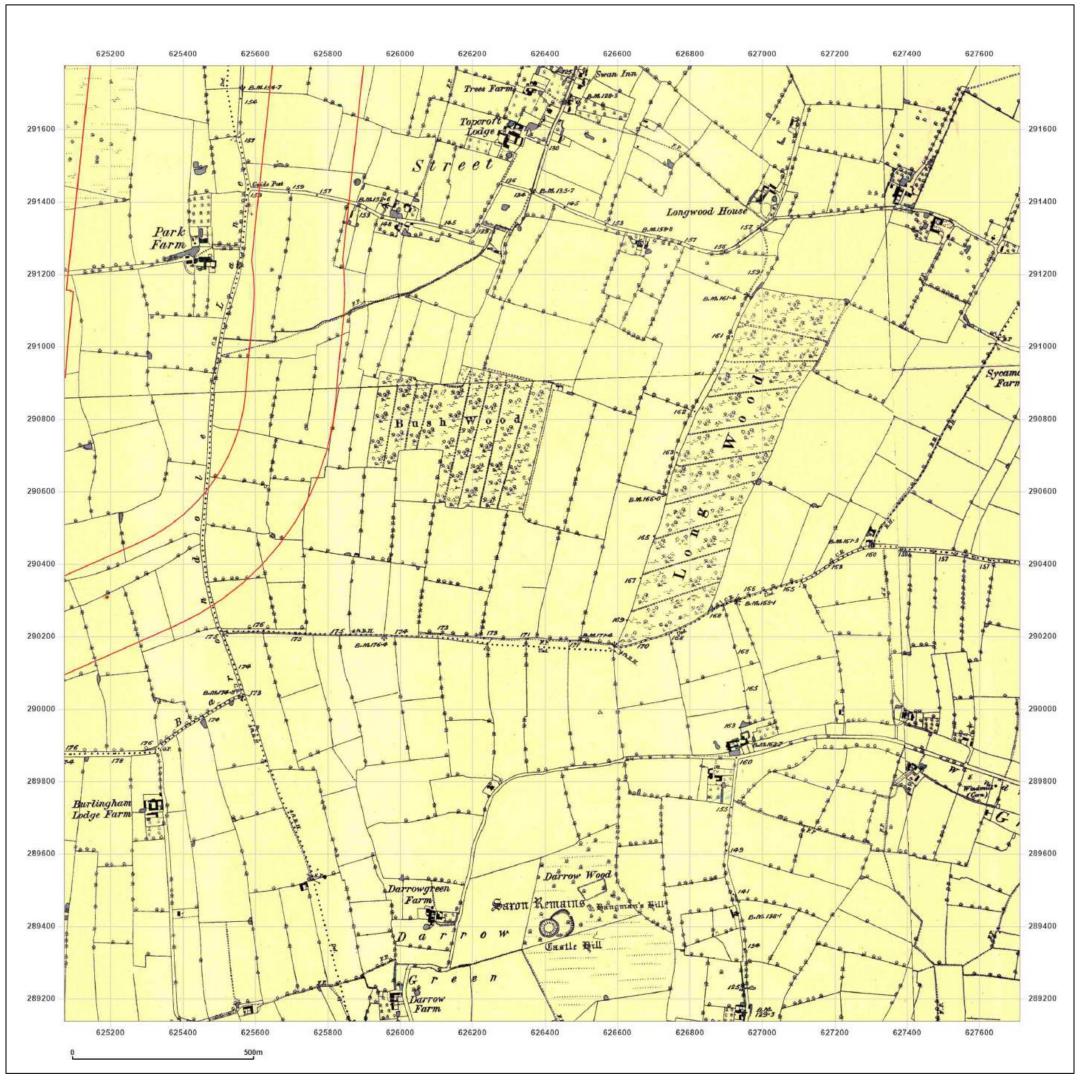
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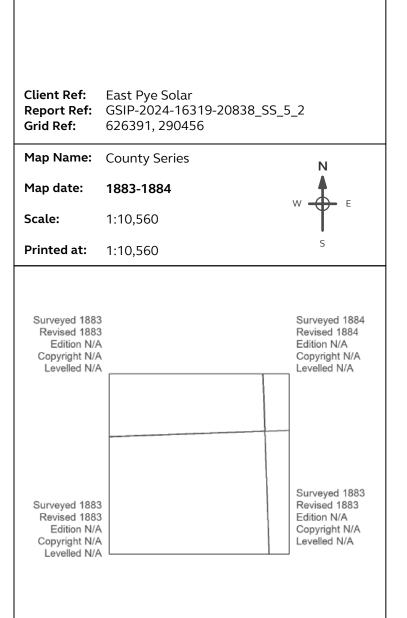
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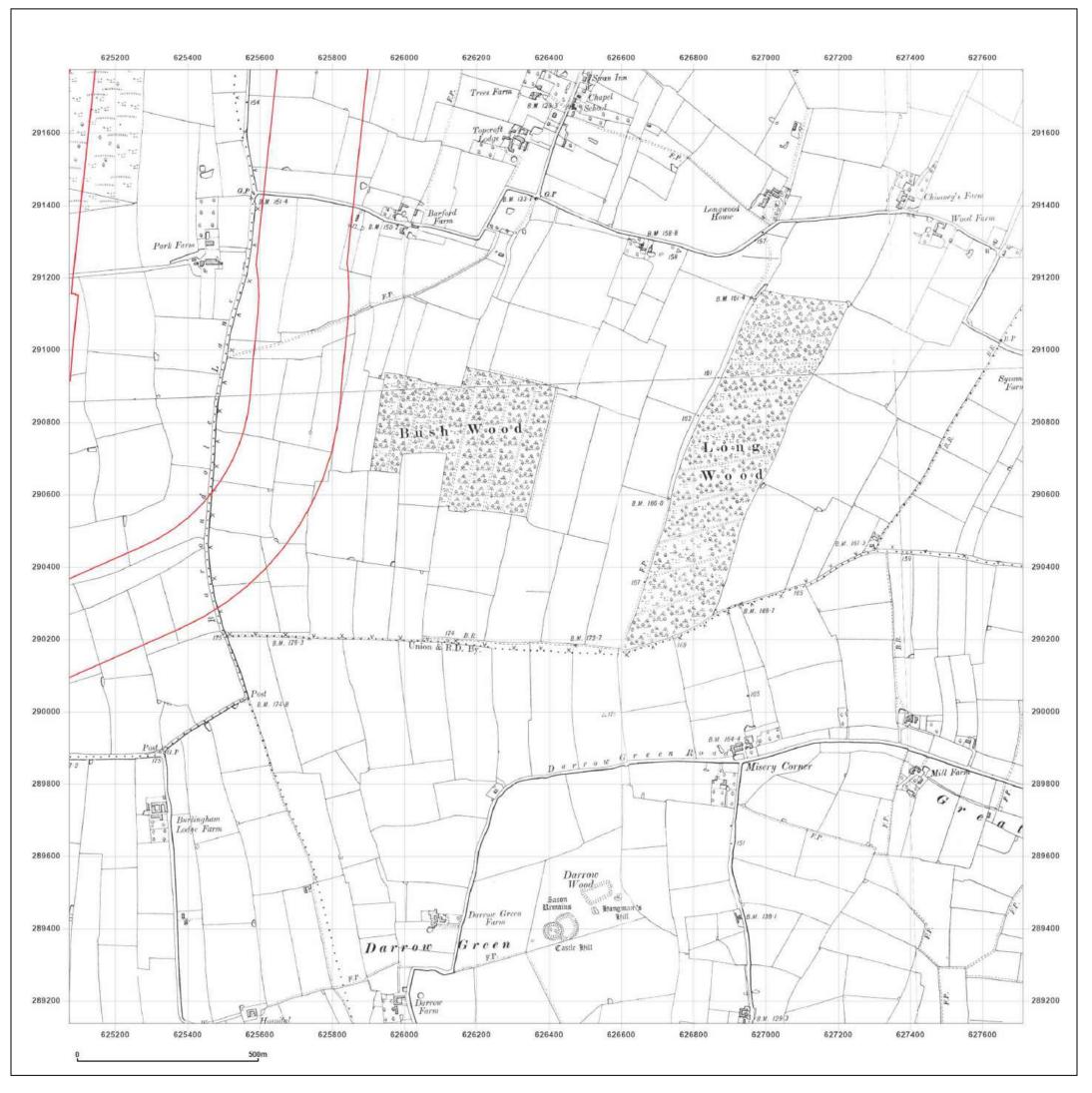
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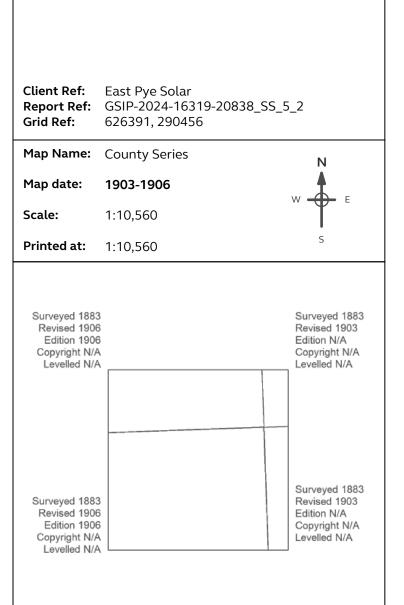


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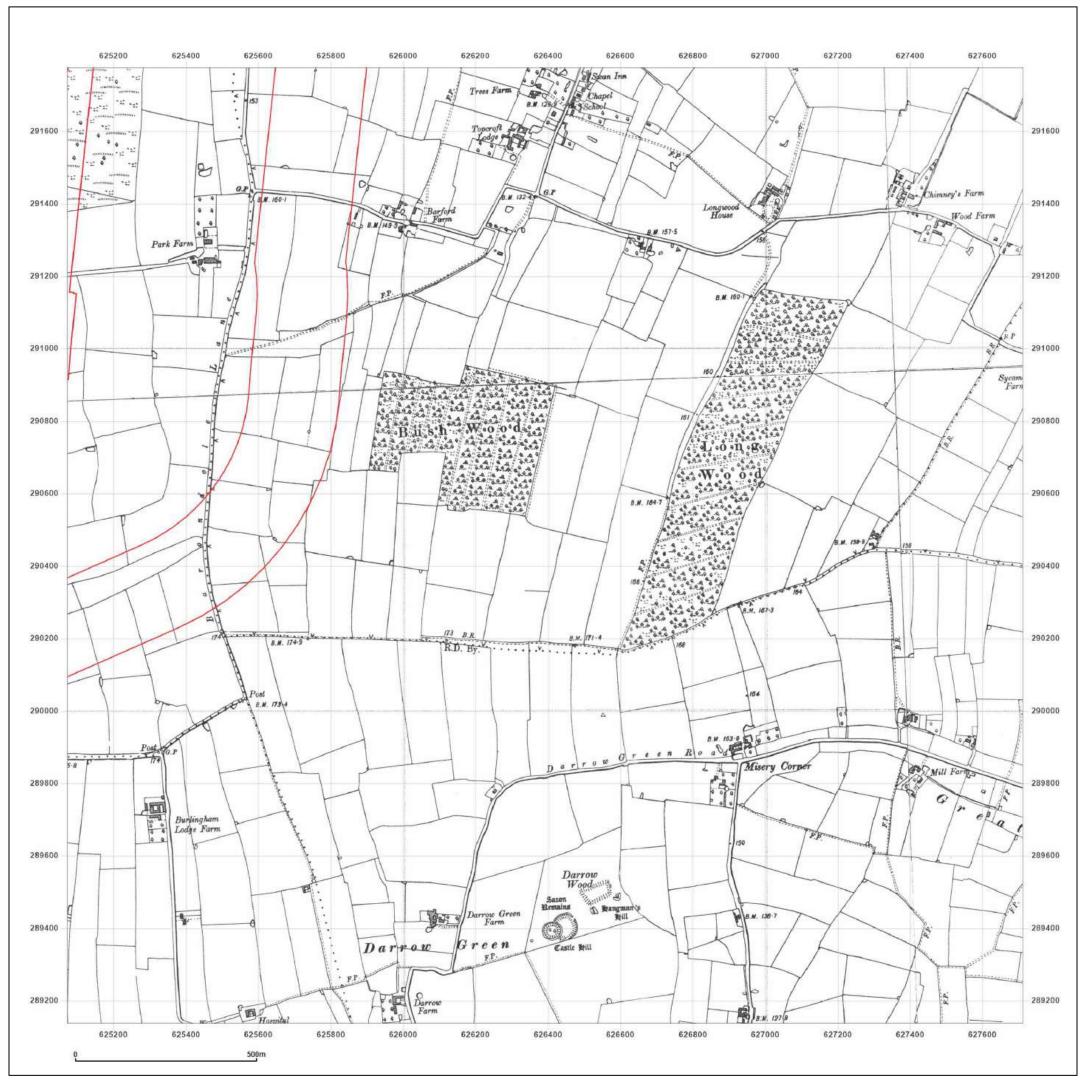
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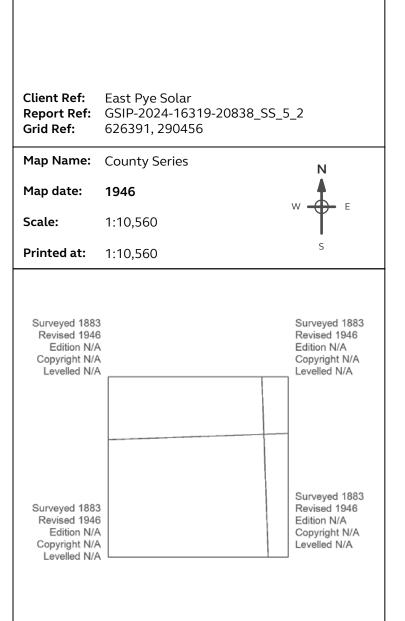


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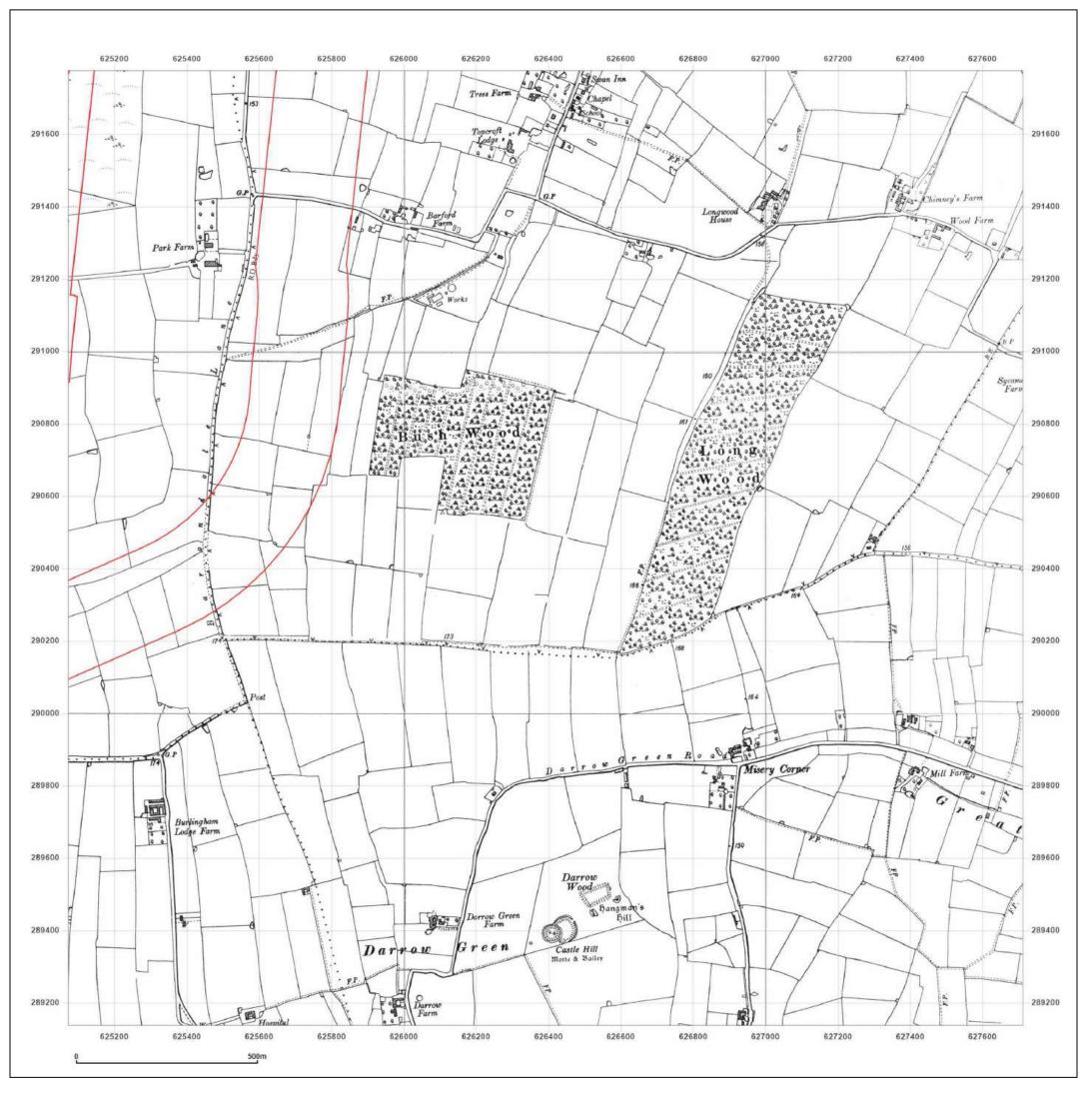
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Production date: 22 August 2024

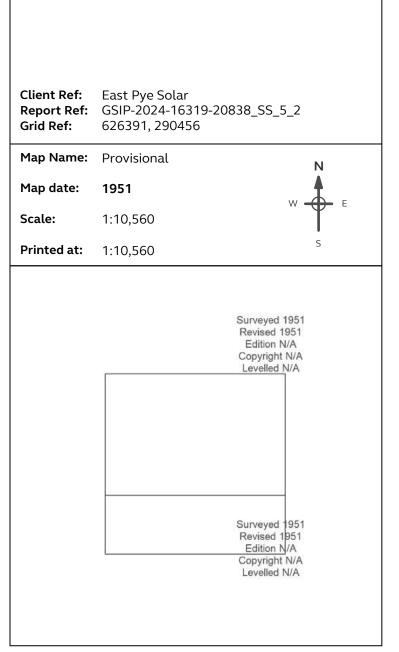


M W



Site Details:

Long Stratton

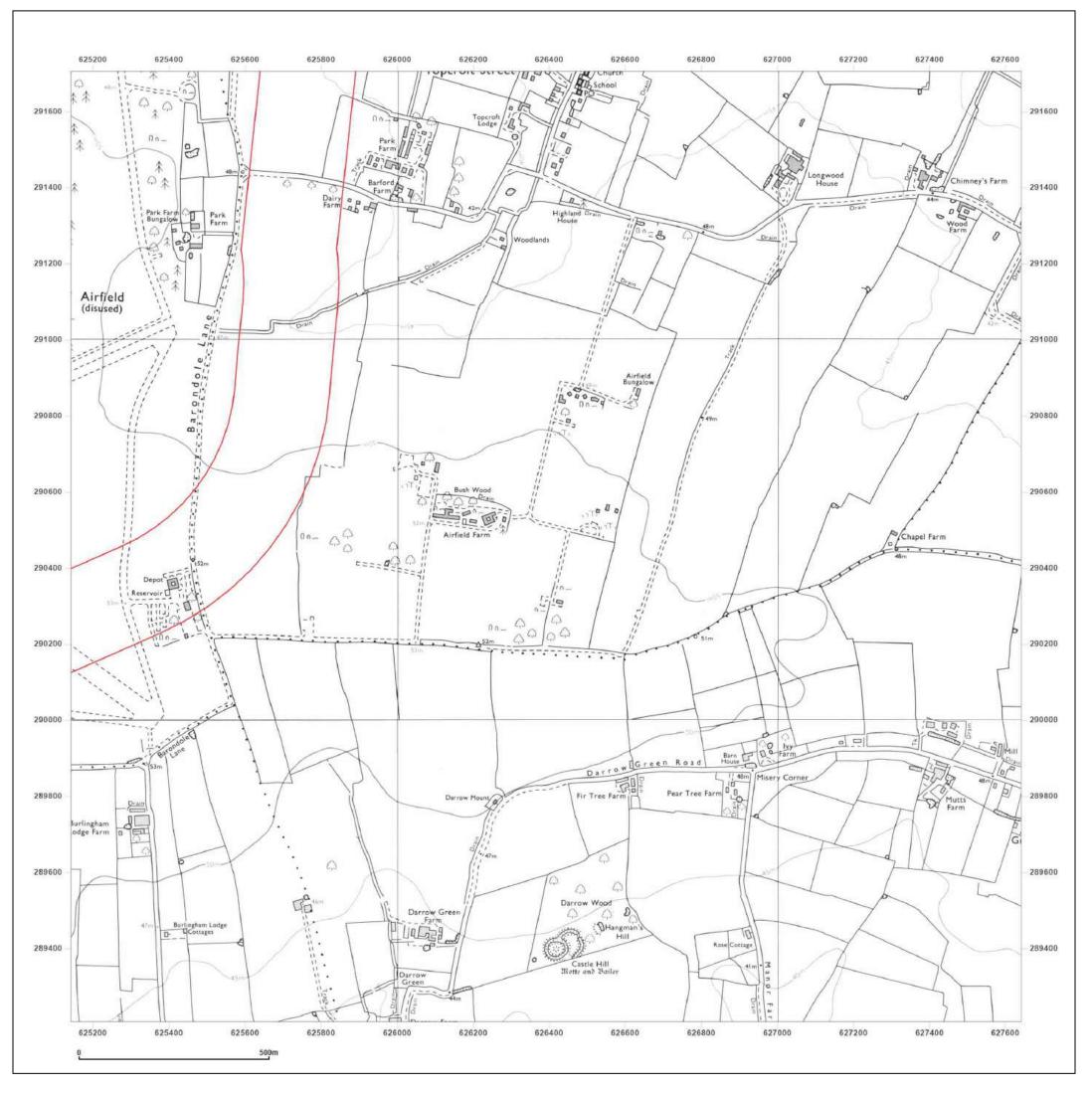




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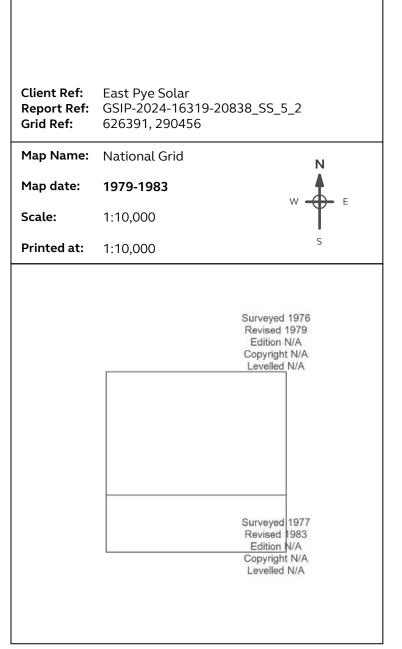


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Site Details:

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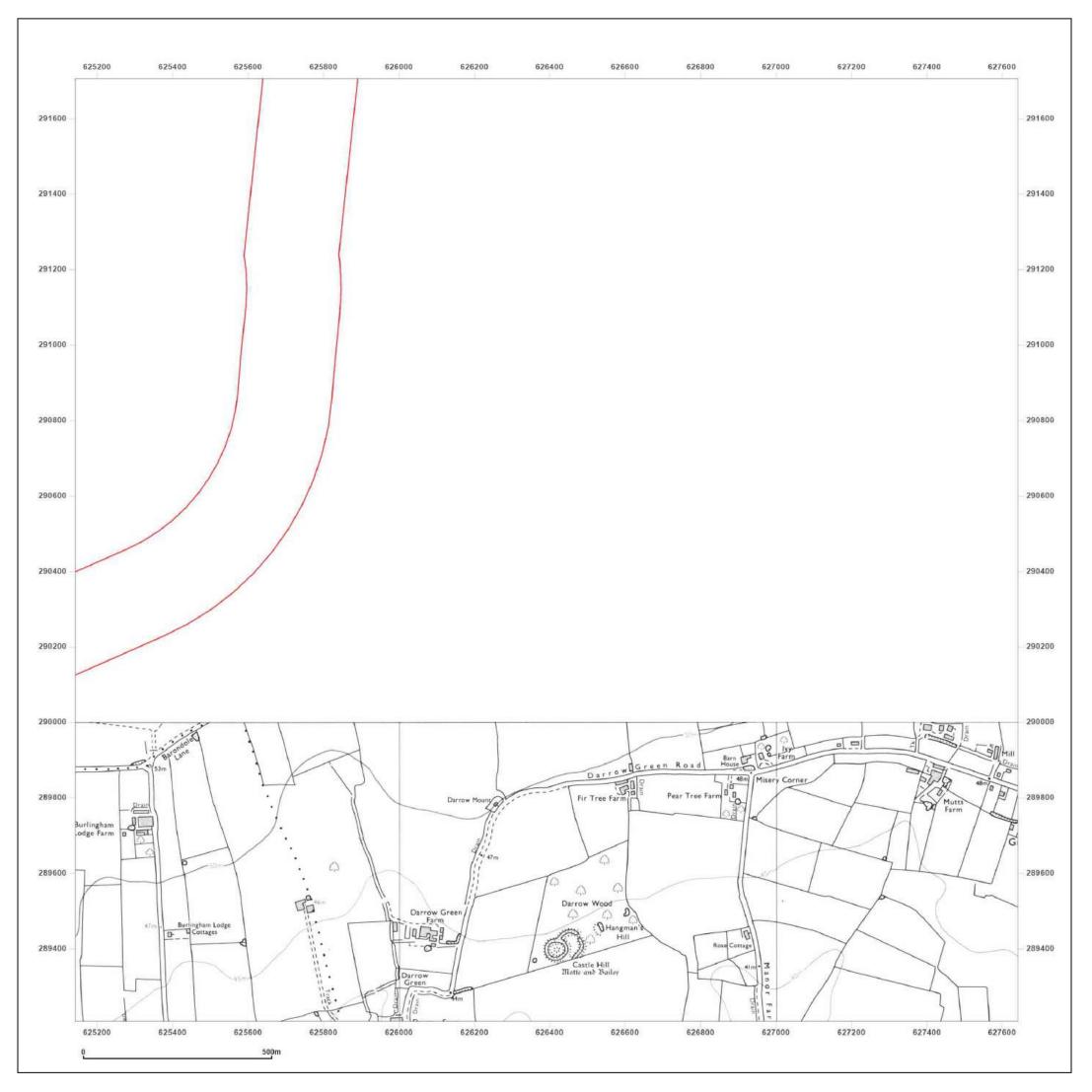




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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	5
Map Name:	National Grid N
Map date:	1990 w E
Scale:	1:10,000
Printed at:	1:10,000 <sup>S</sup>
	Surveyed 1977 Revised 1990

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



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Production date: 22 August 2024

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



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 290456	5_2
Map Name:	National Grid	N
Map date:	2001	W E
Scale:	1:10,000	Ť
Printed at:	1:10,000	S

2001	



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 290456	5_2
Map Name:	National Grid	Ν
Map date:	2010	W E
Scale:	1:10,000	T L
Printed at:	1:10,000	S

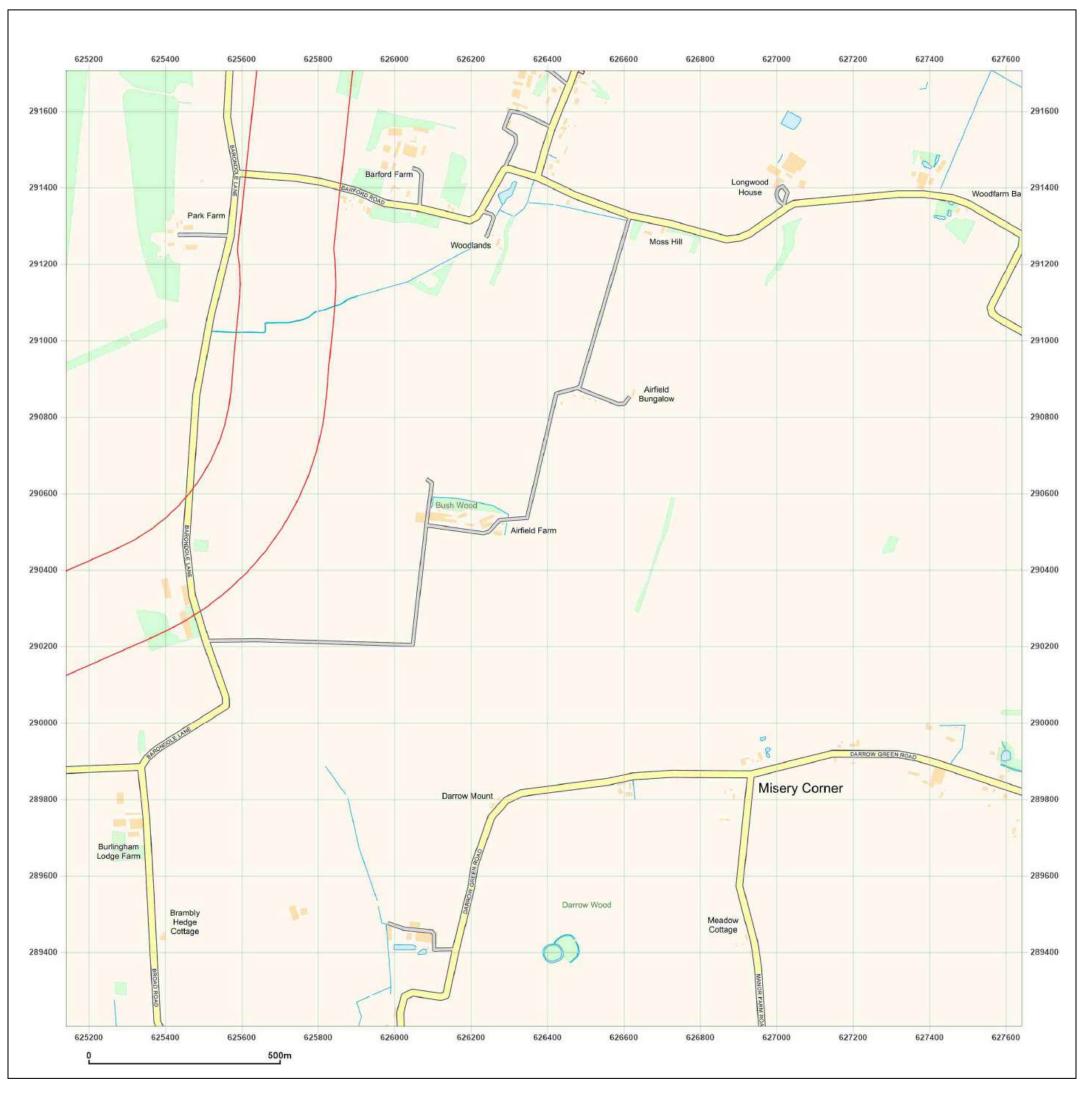
2010	



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Production date: 22 August 2024



Production date: 22 August 2024 Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5_2 626391, 290456	2
Map Name:	National Grid	Ν
Map date:	2024	
Scale:	1:10,000	Ţ <sup>□</sup>
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2024	



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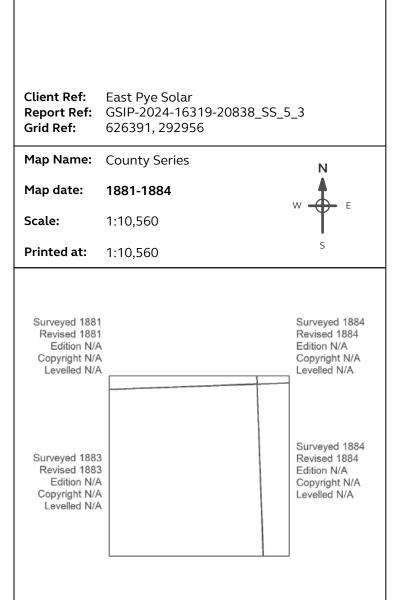
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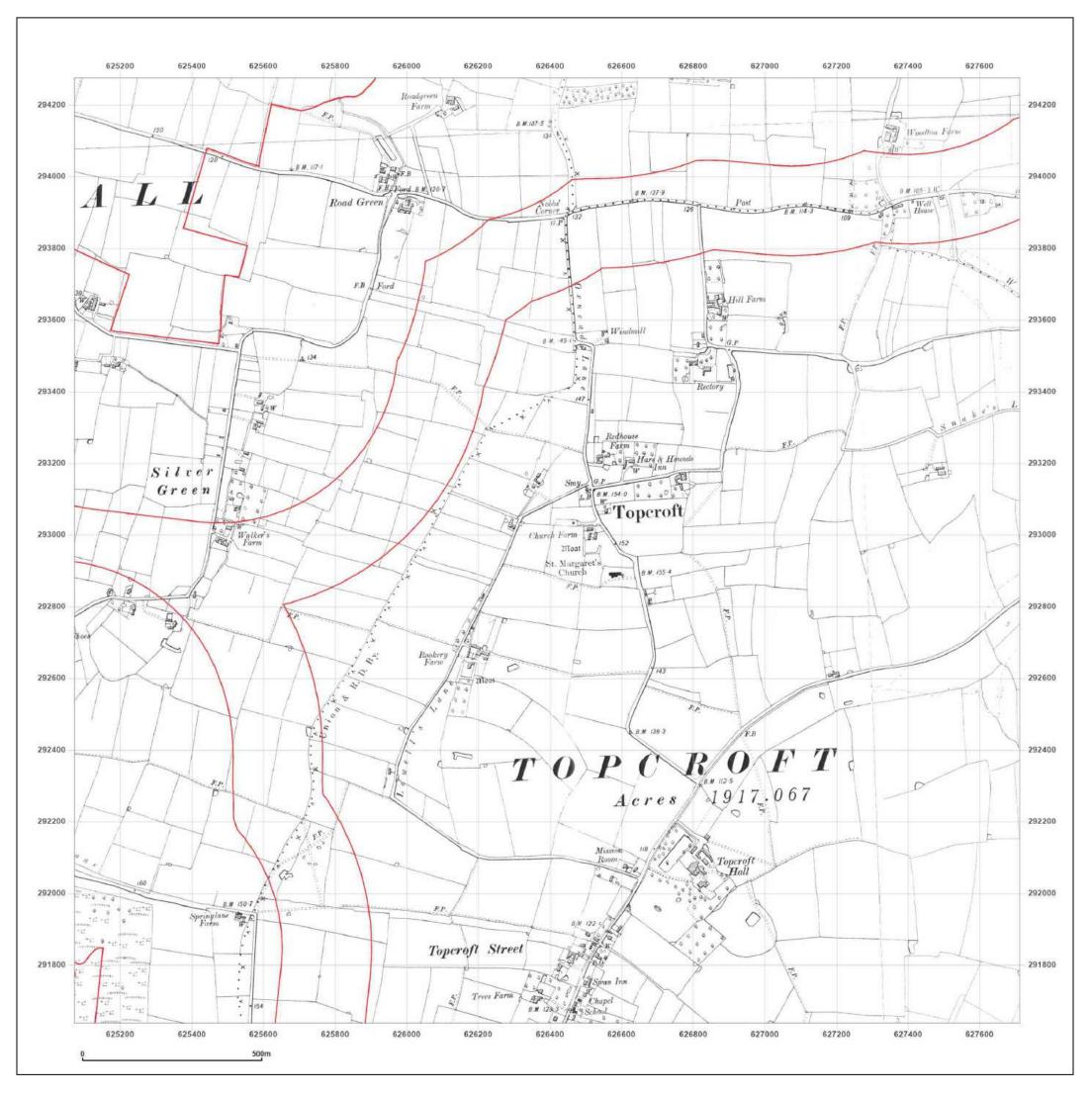
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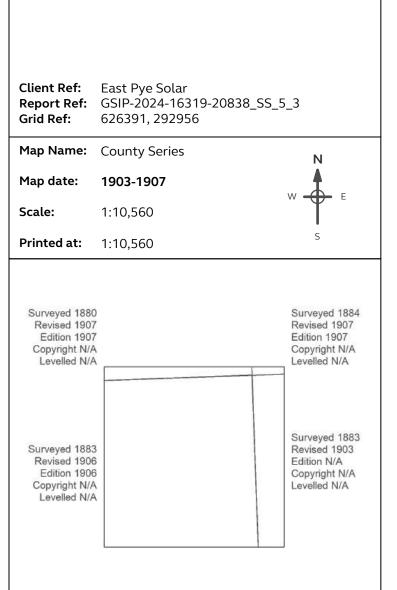


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Site Details:

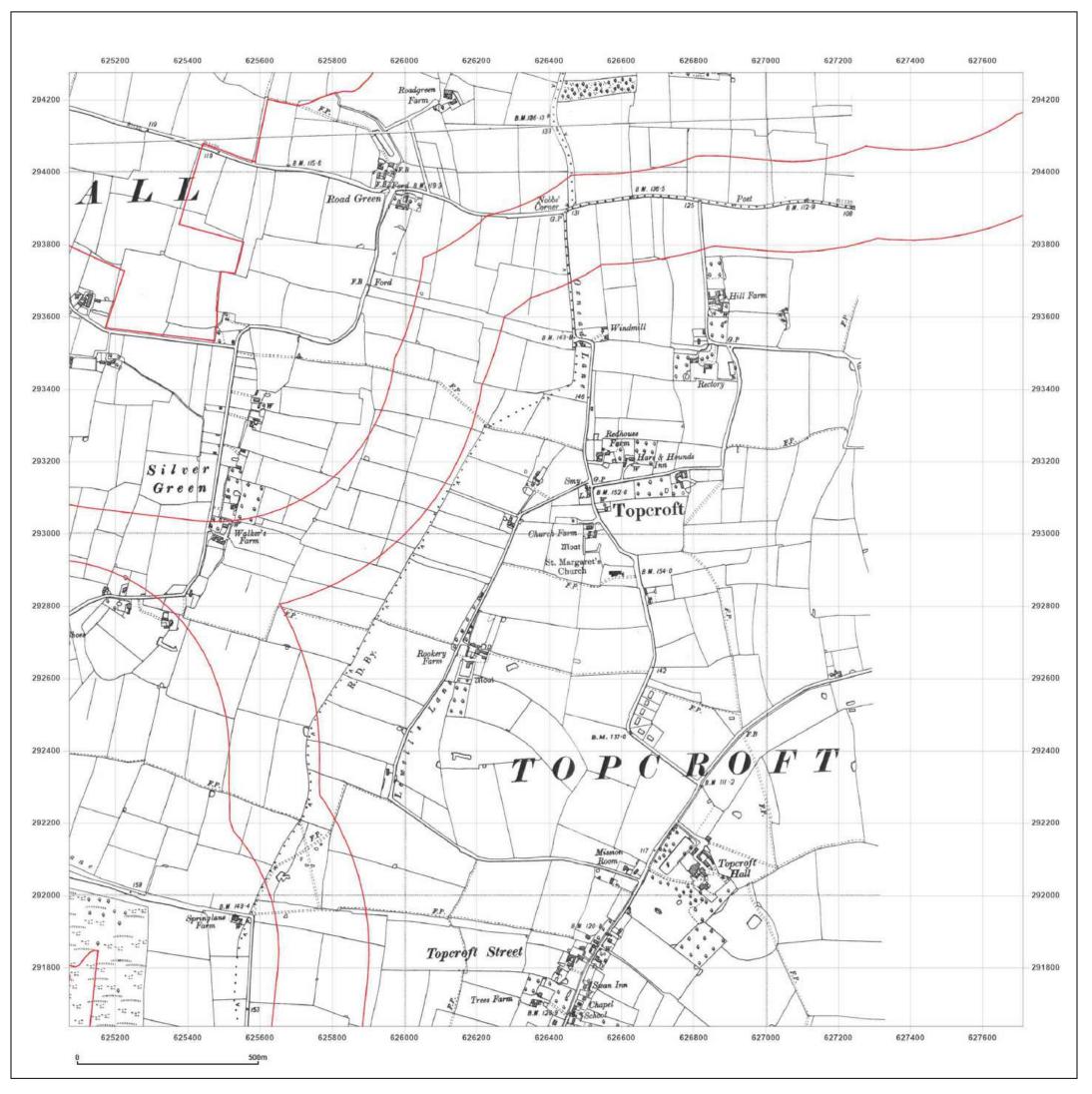
Long Stratton





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Production date: 22 August 2024

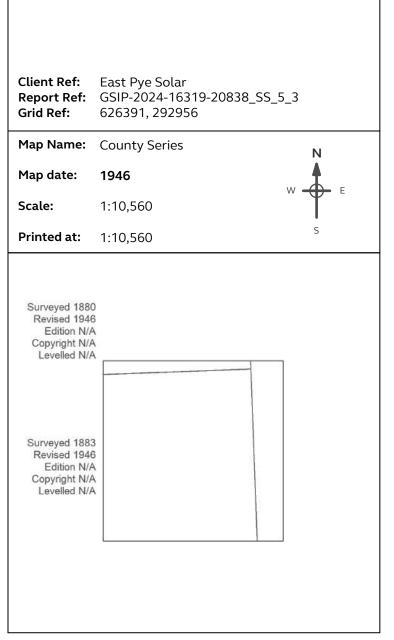


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Site Details:

Long Stratton

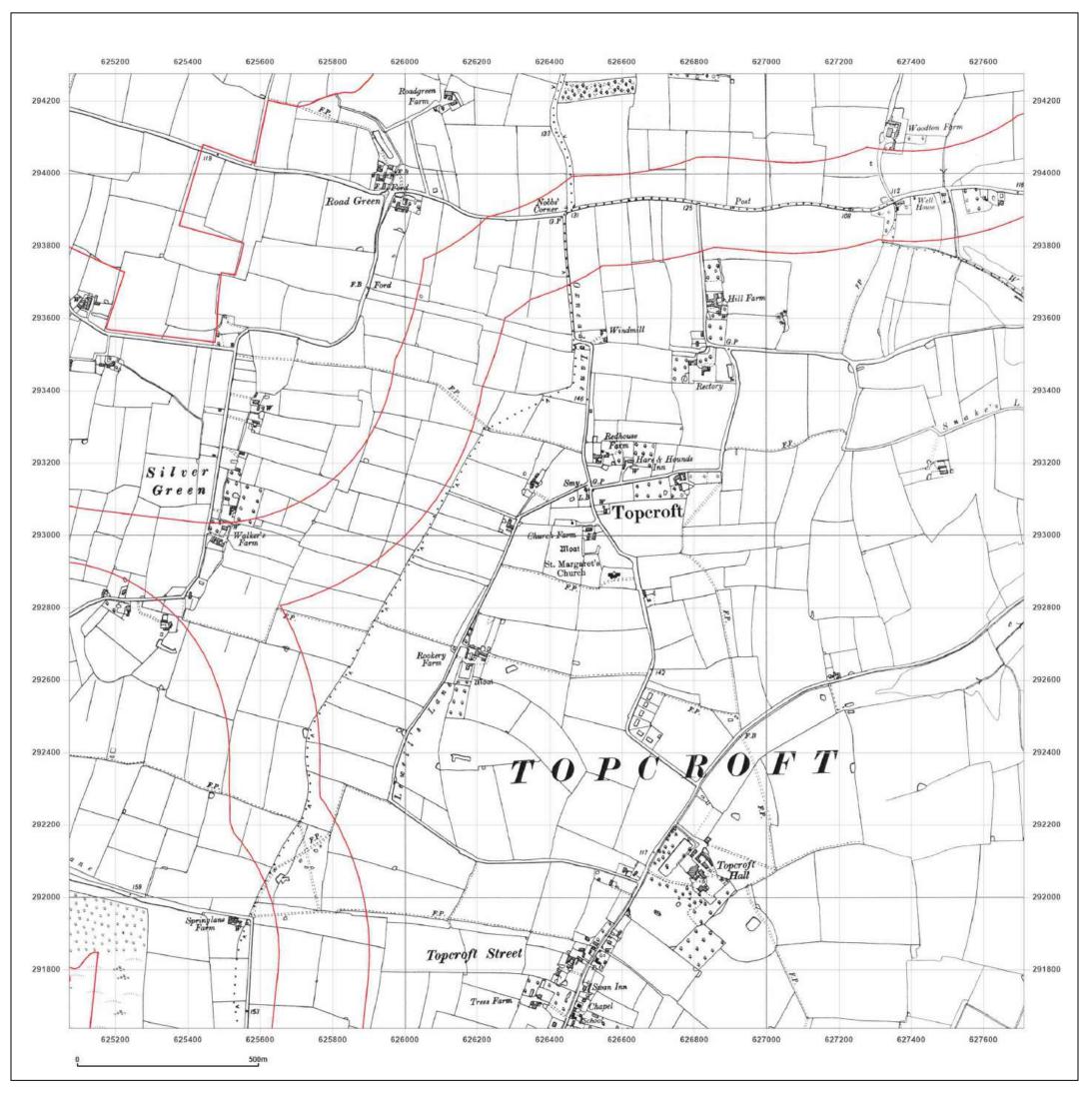




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Production date: 22 August 2024



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	
Map Name:	Provisional N
Map date:	1951 w
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>
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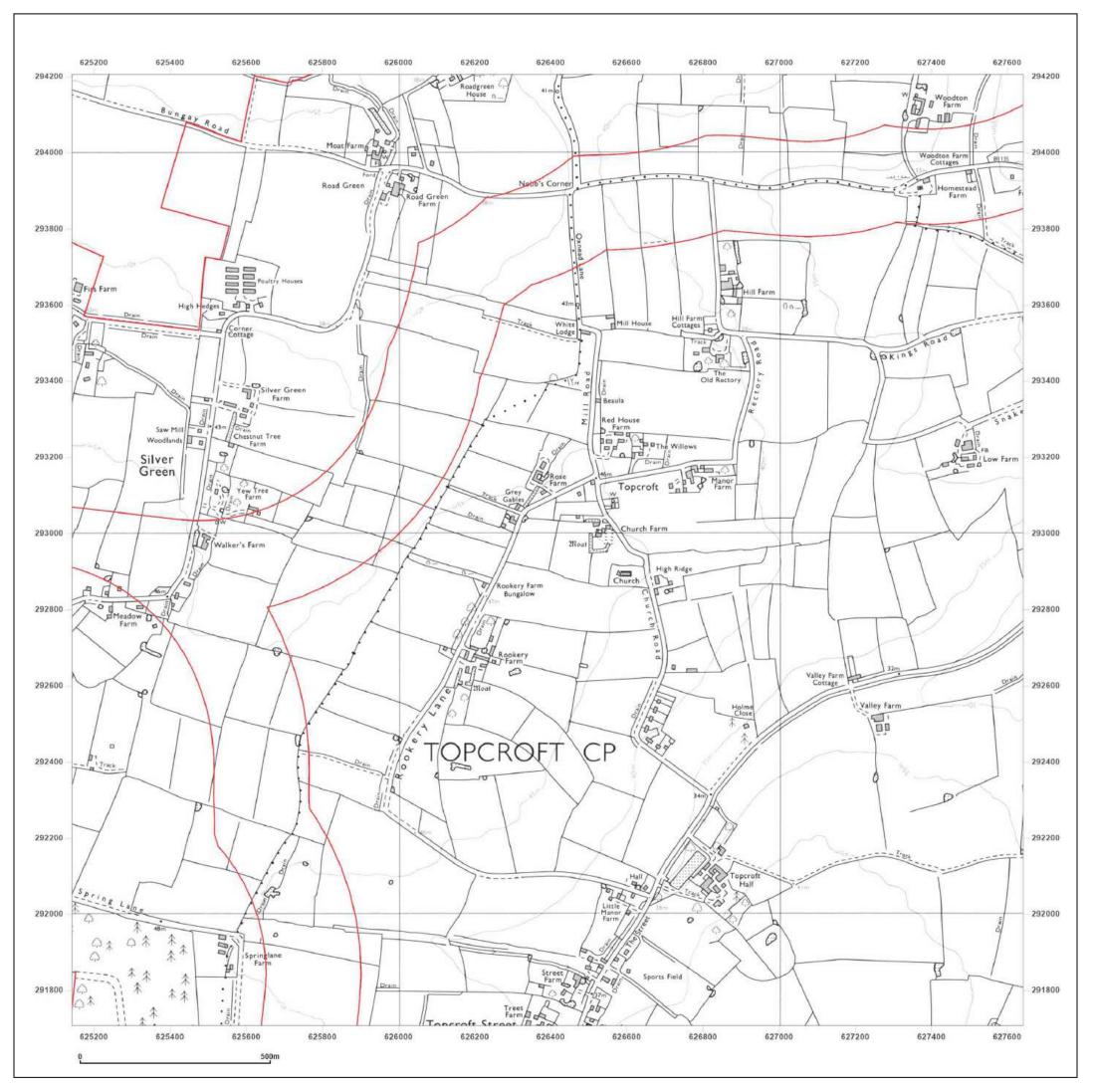


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Production date: 22 August 2024

Map legend available at: <u>www.groundsure.com/sites/default/files/groundsure\_legend.pdf</u>



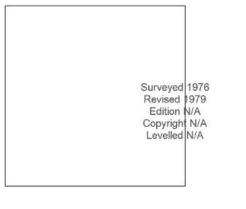
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5_3 626391, 292956
Map Name:	National Grid N
Map date:	1979 w
Scale:	1:10,000
Printed at:	1:10,000 <sup>S</sup>

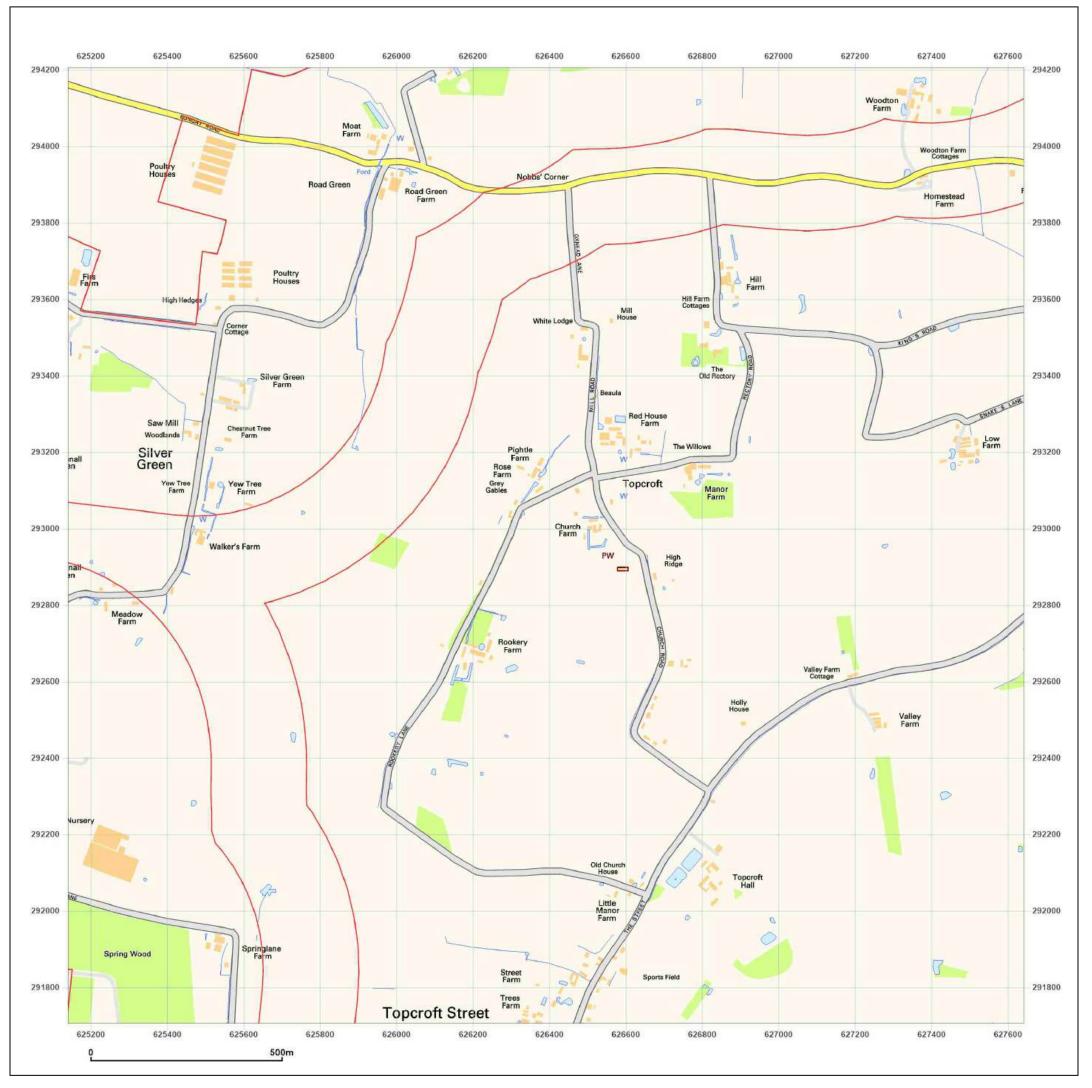




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Production date: 22 August 2024





Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 292956	5_3
Map Name:	National Grid	Ν
Map date:	2001	W E
Scale:	1:10,000	
Printed at:	1:10,000	S

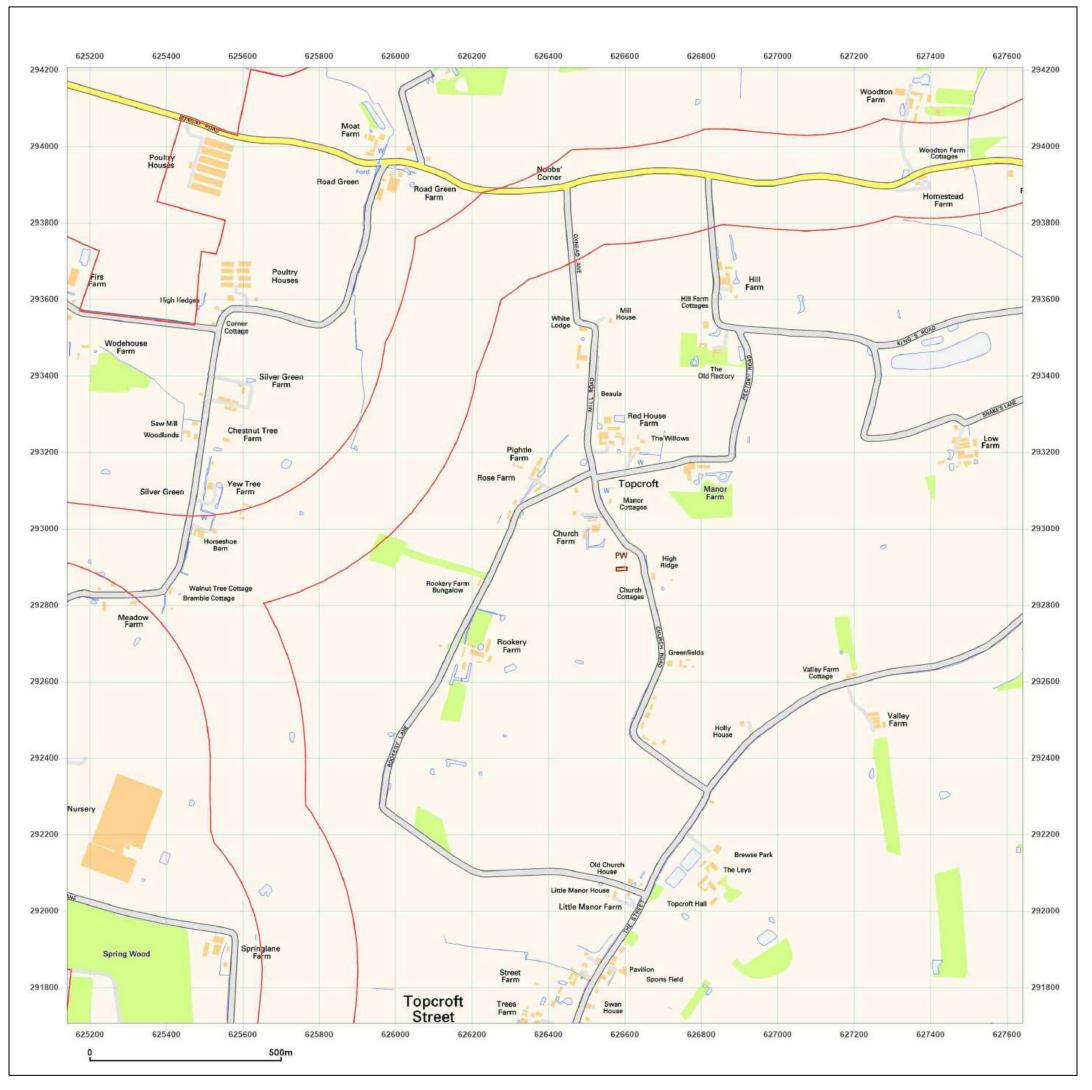
2001



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 292956	5_3
Map Name:	National Grid	N
Map date:	2010	W E
Scale:	1:10,000	
Printed at:	1:10,000	S

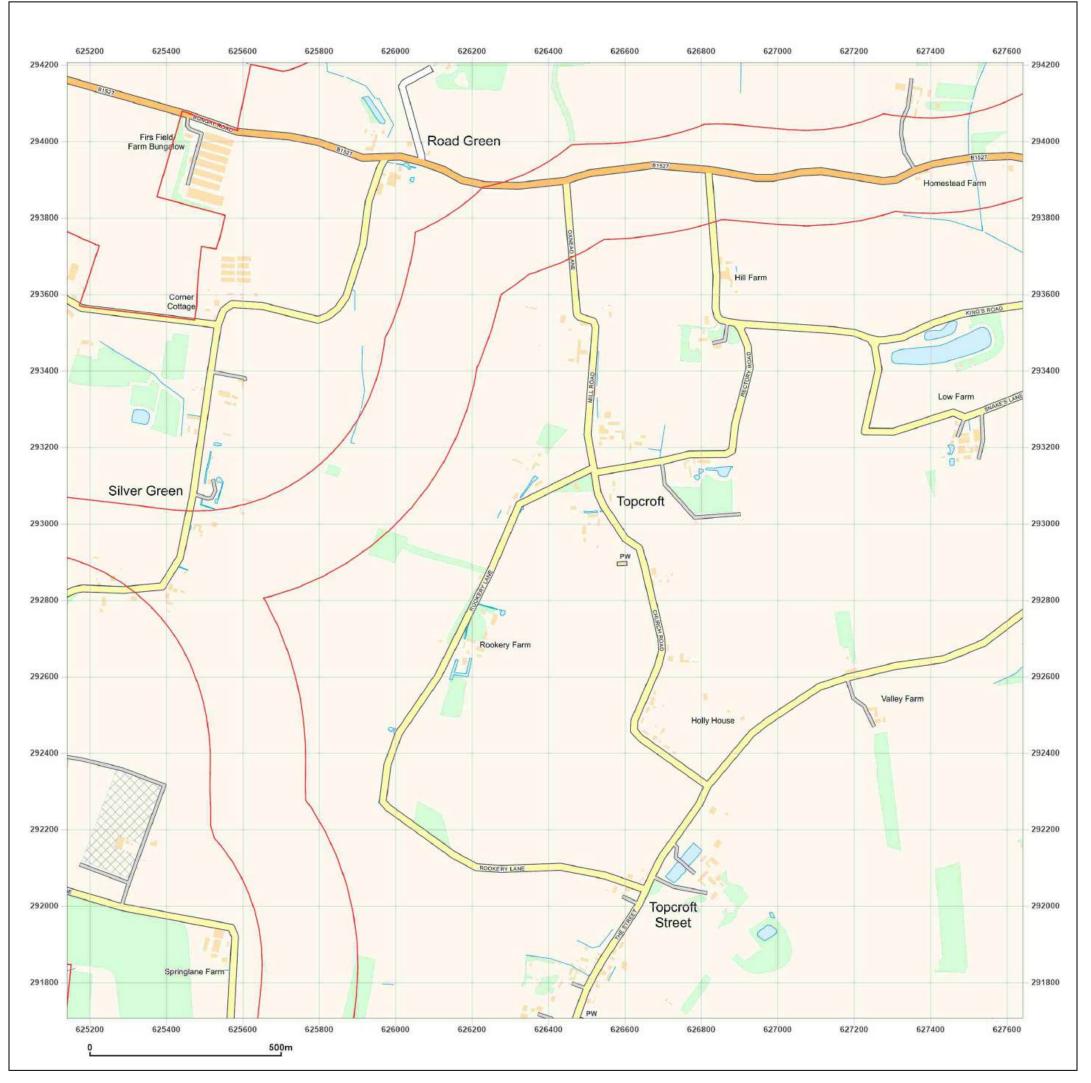
2010	



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Production date: 22 August 2024



Production date: 22 August 2024 Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton

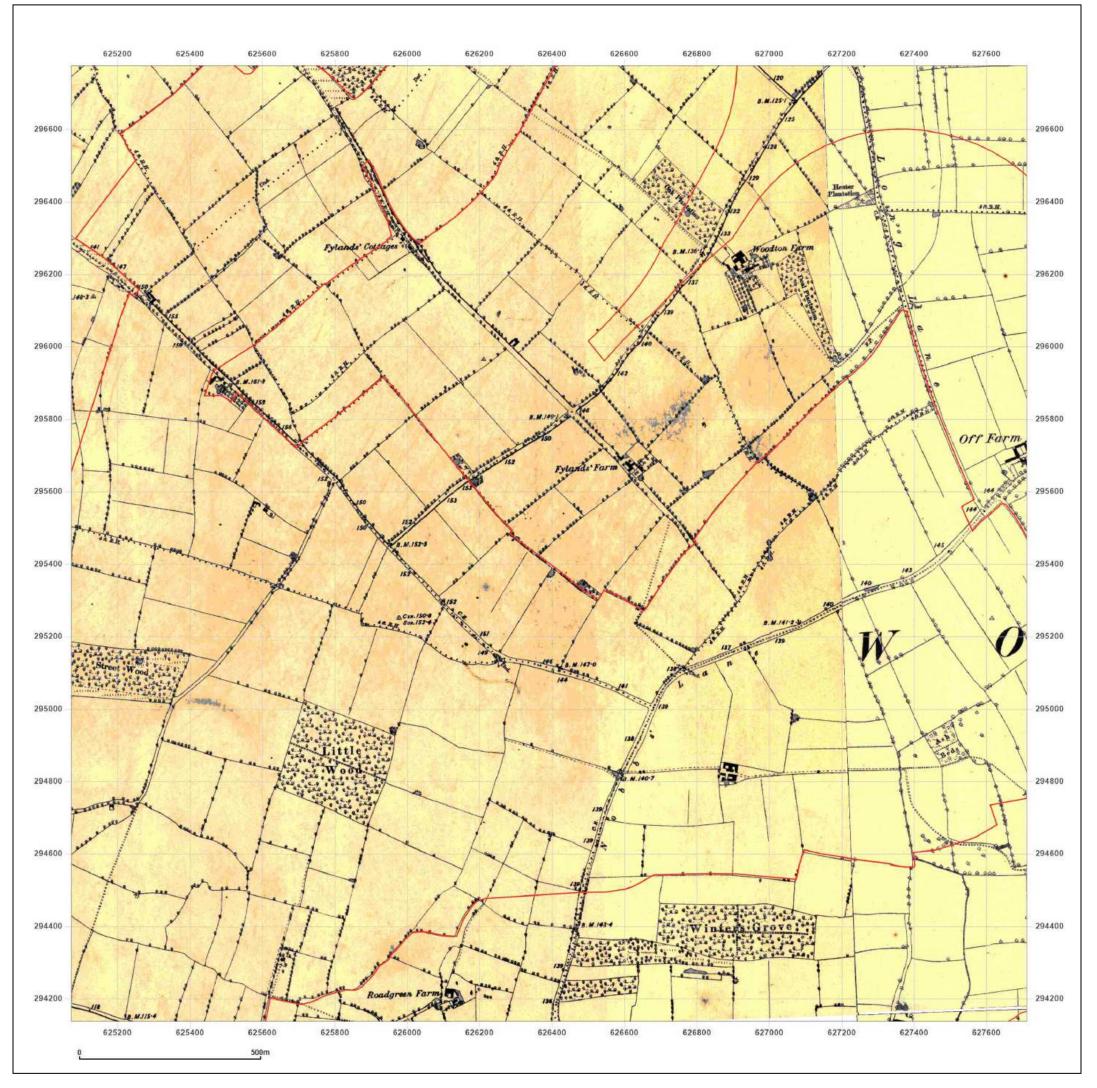
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Map Name:	National Grid	Ν
Map date:	2024	
Scale:	1:10,000	T -
Printed at:	1:10,000	S

2024	



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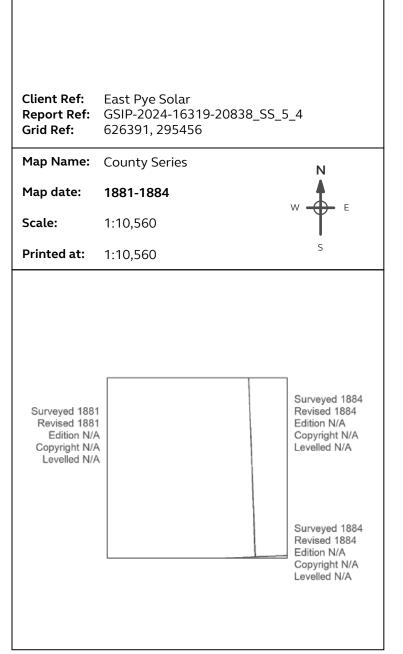


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Site Details:

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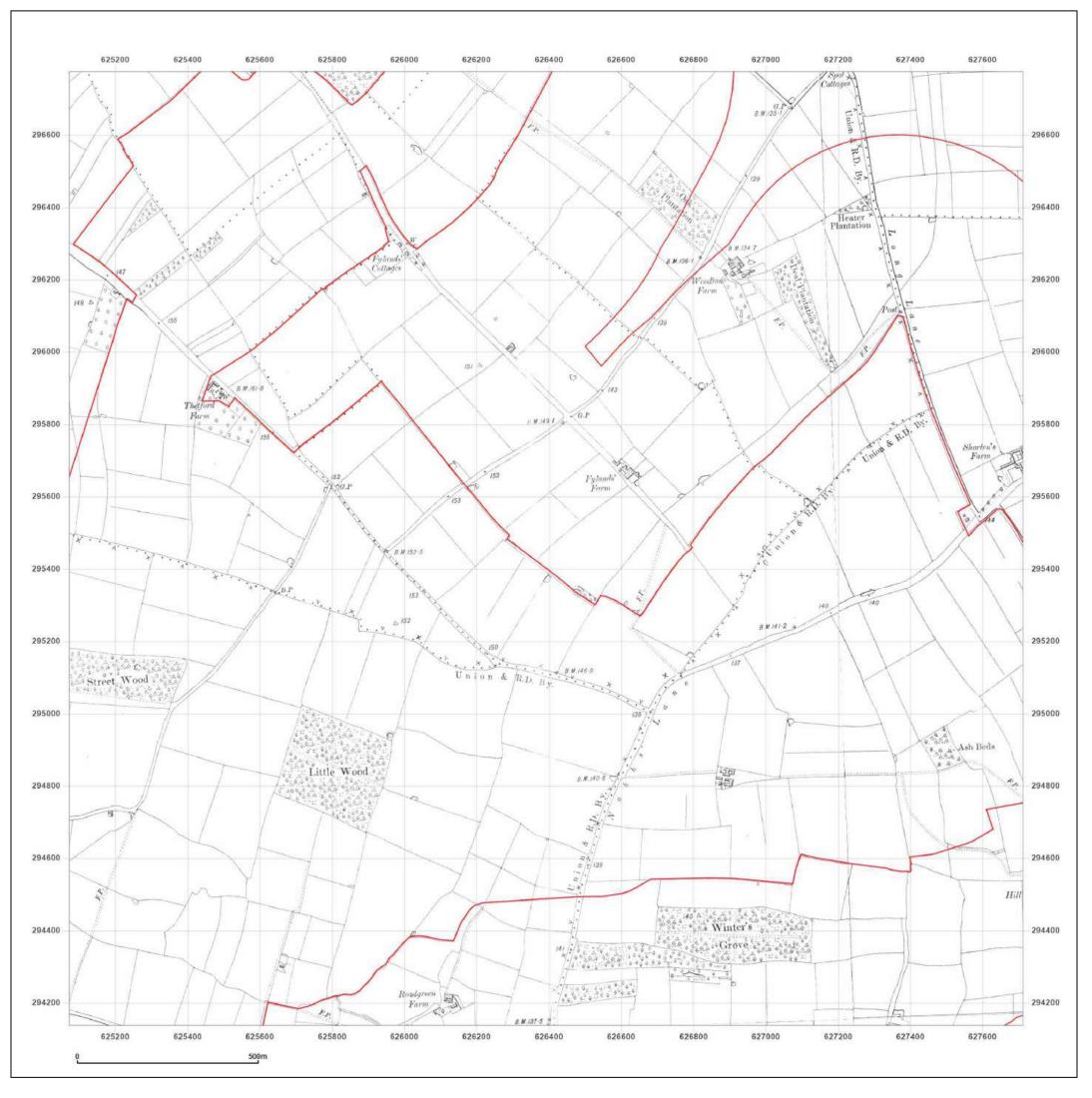




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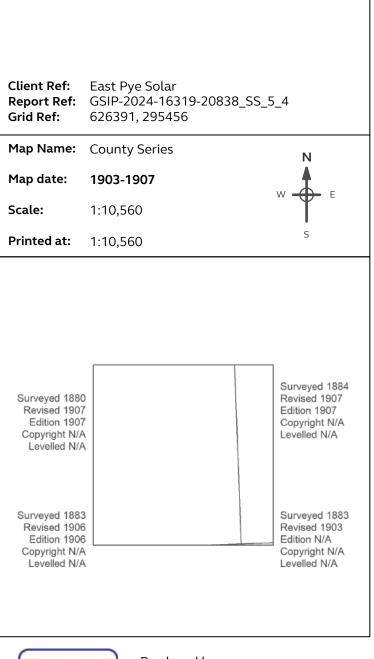
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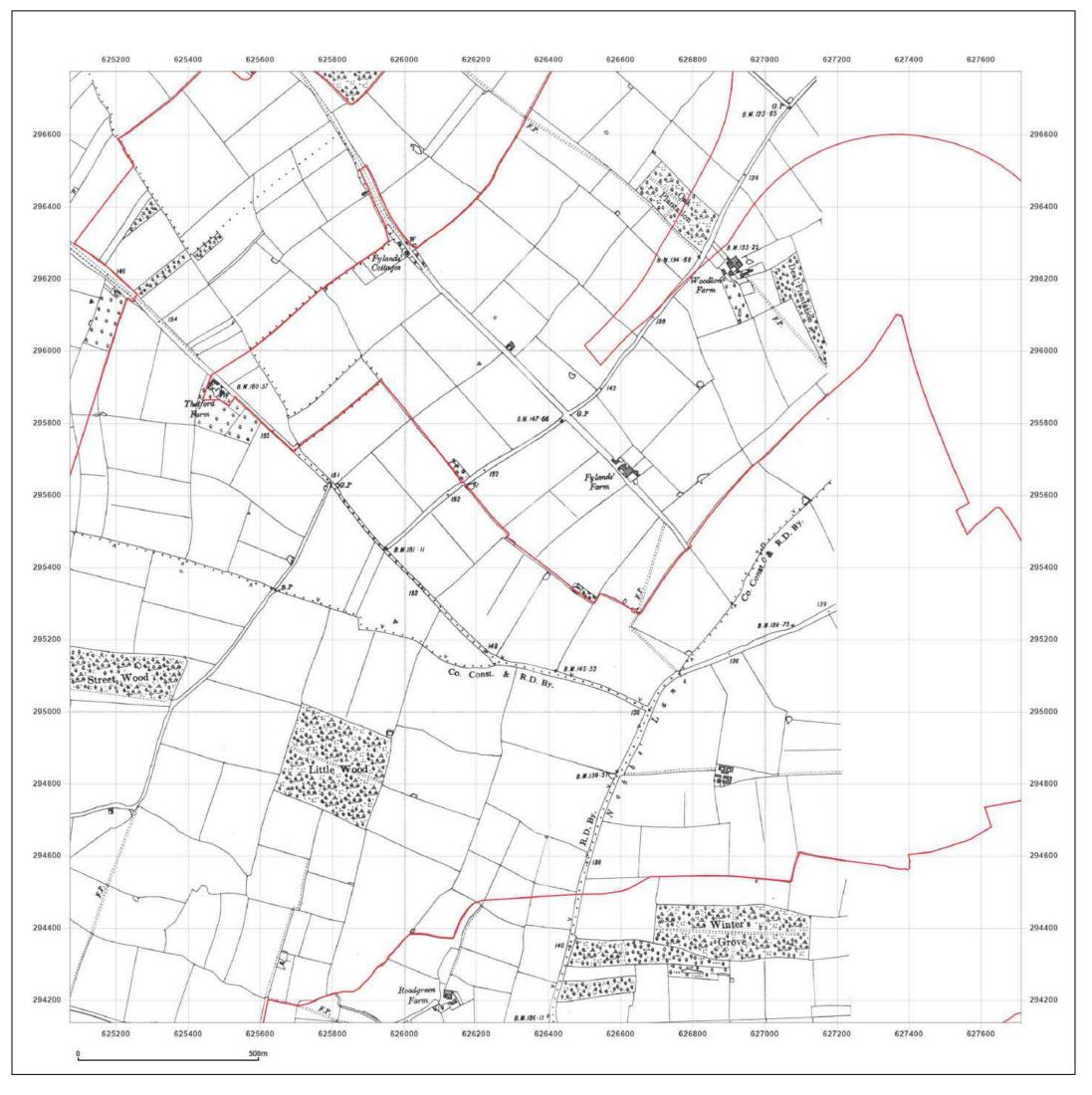
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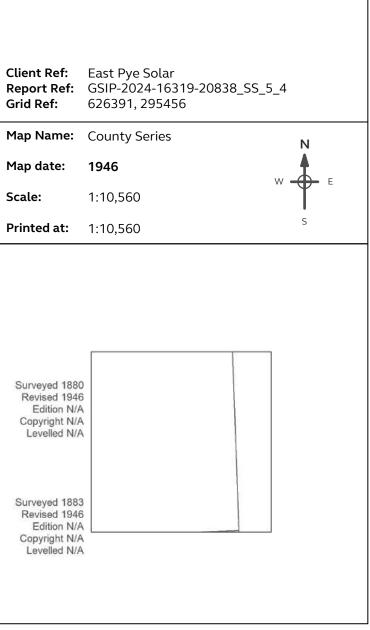
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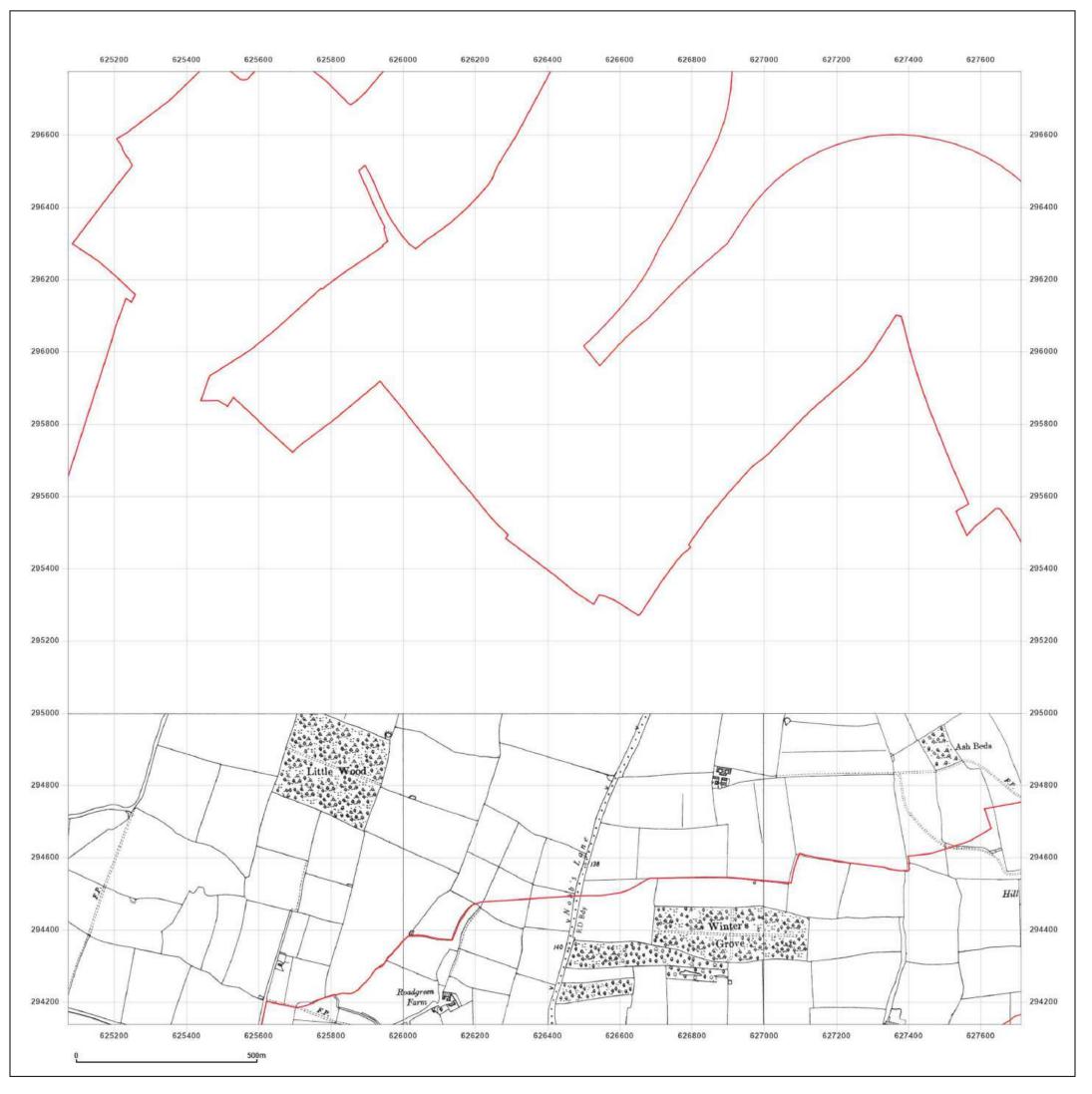




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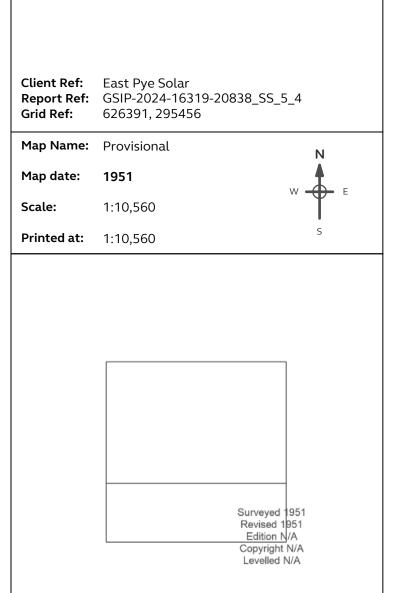


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Site Details:

Long Stratton



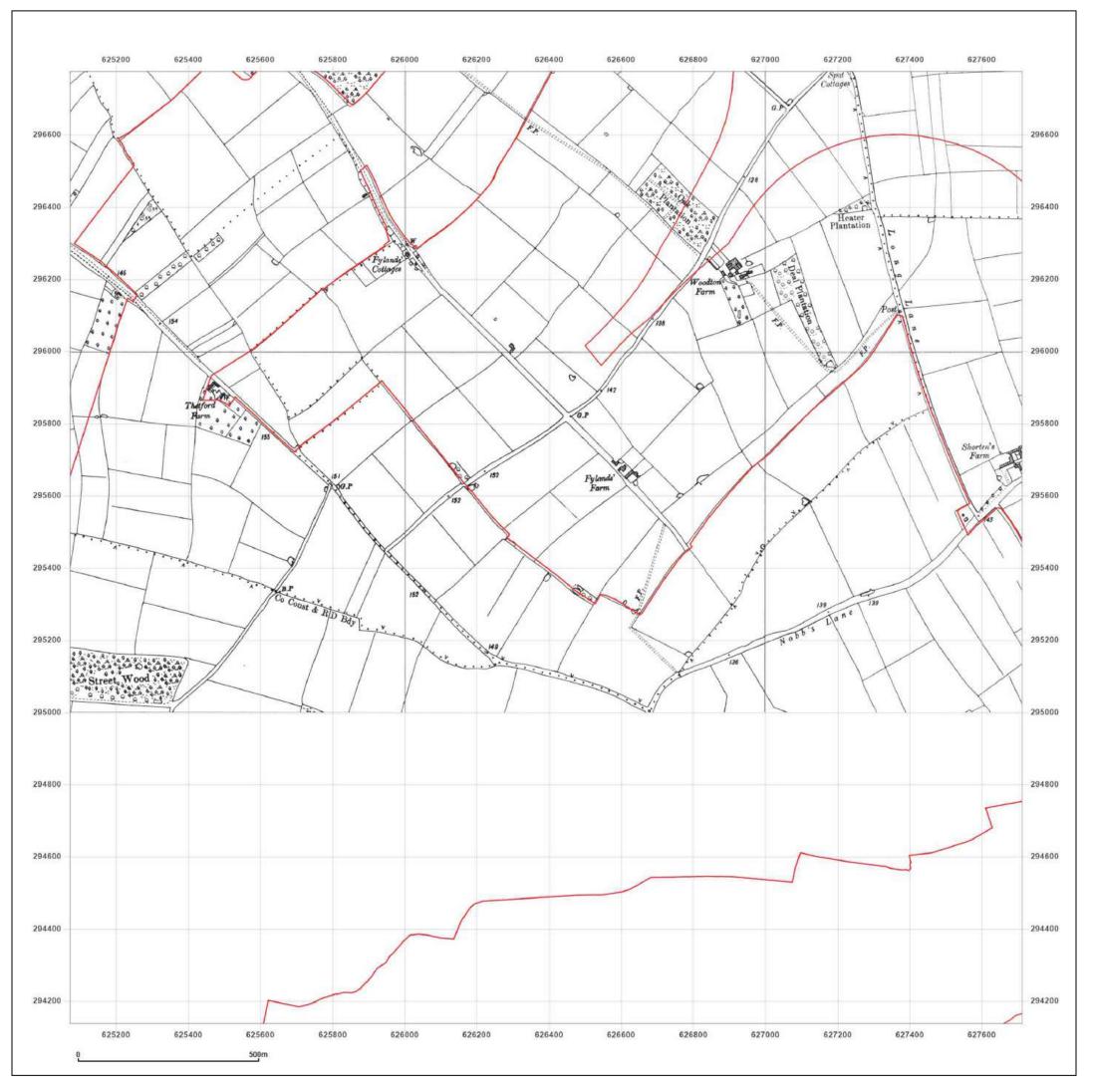


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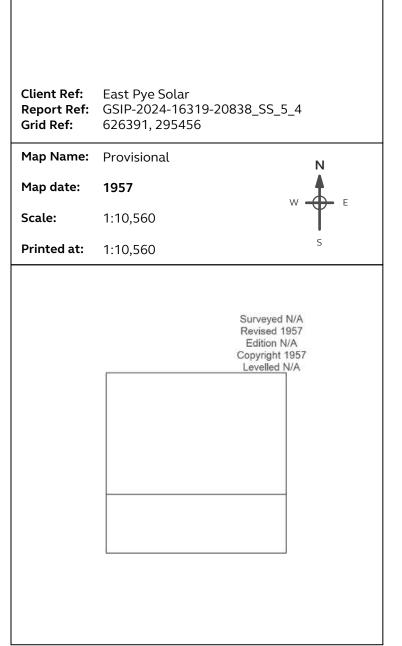


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Site Details:

Long Stratton

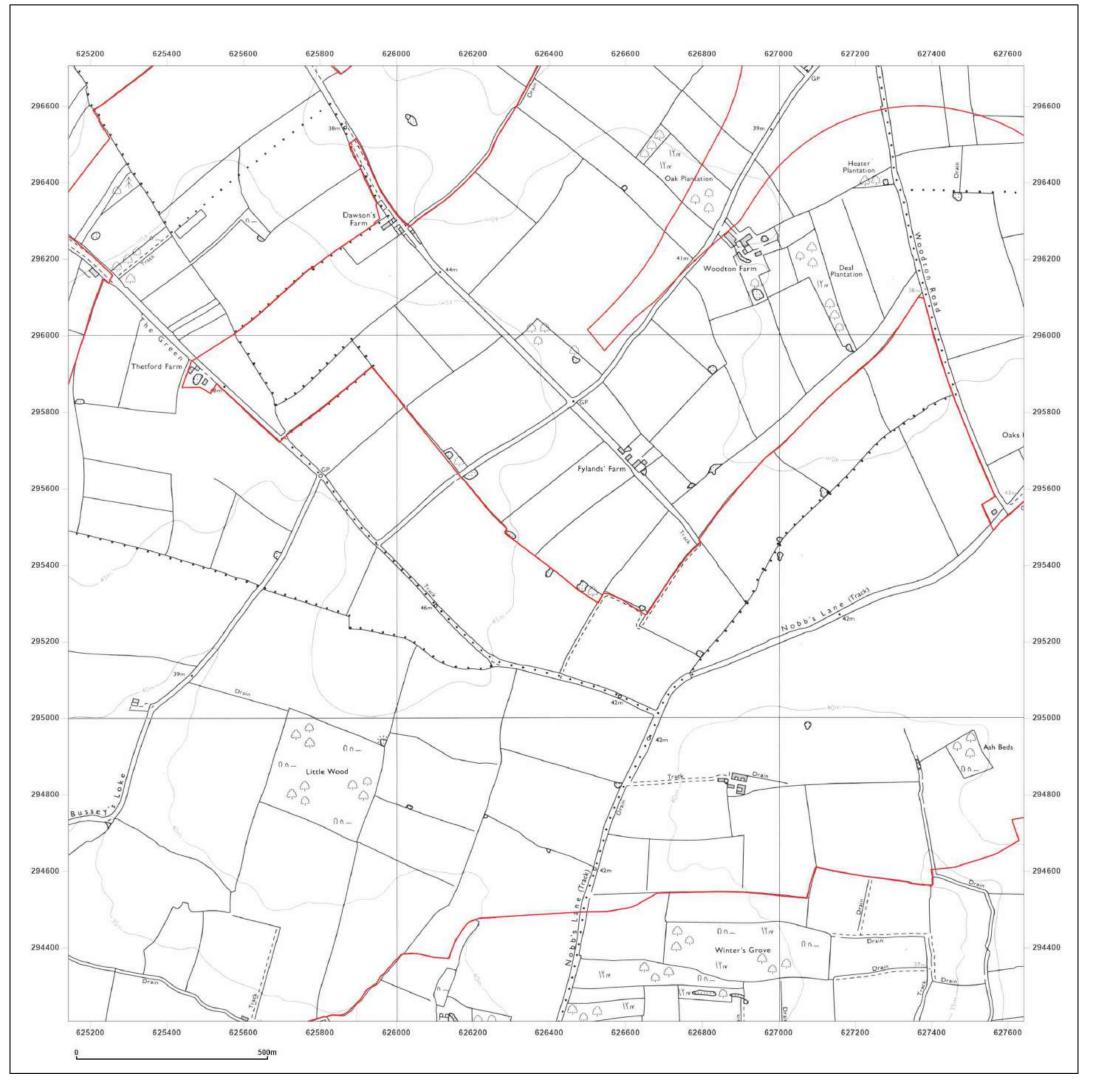




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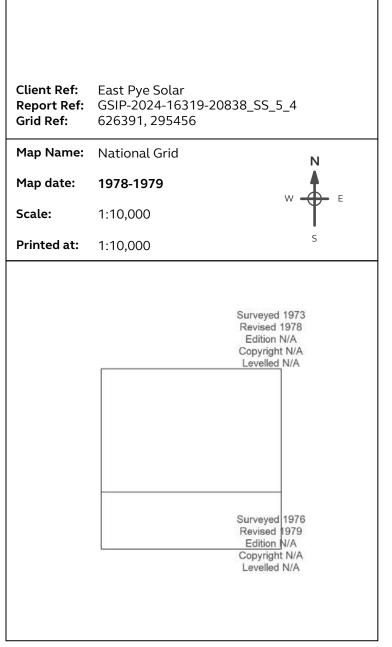
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Site Details:

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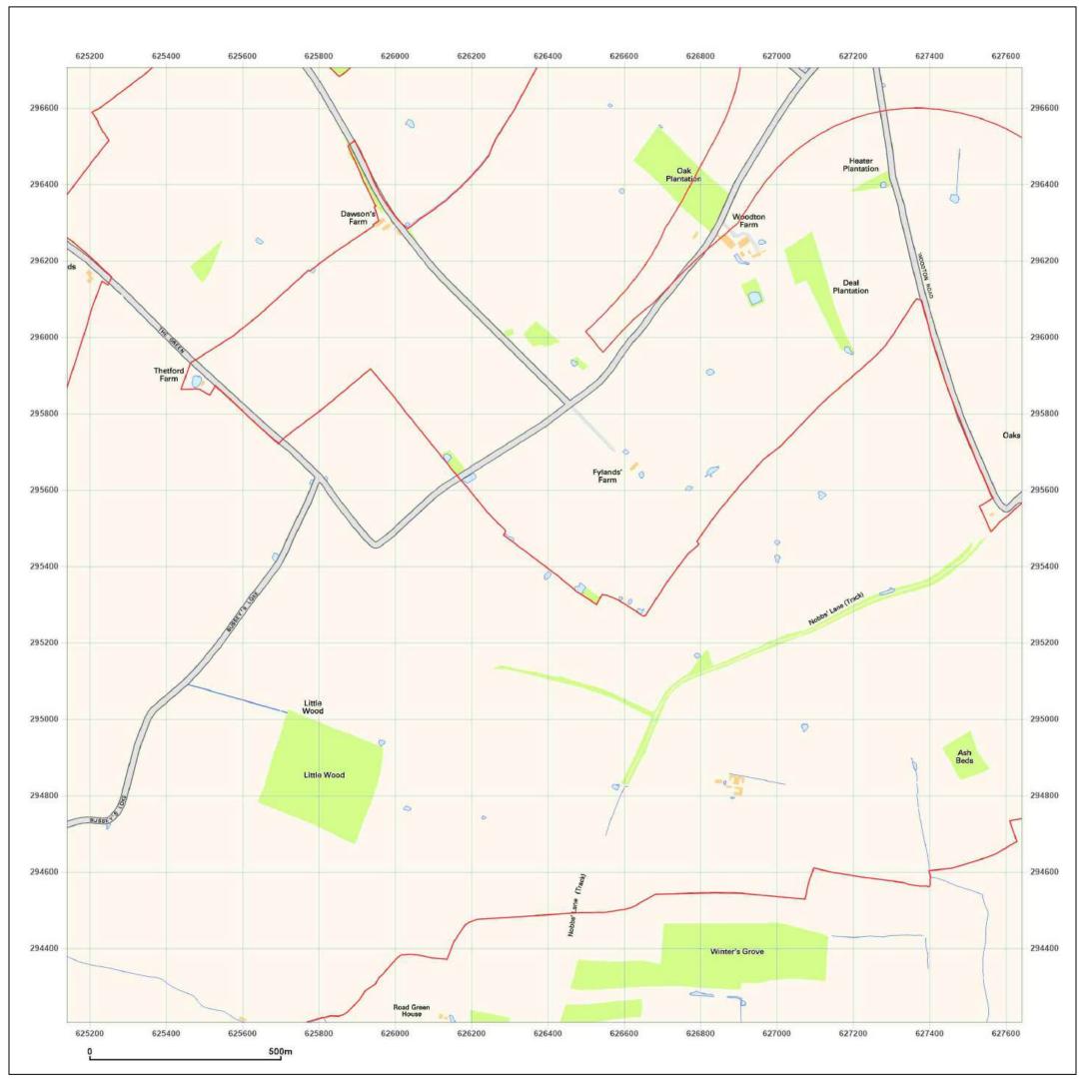




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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 295456	_4
Map Name:	National Grid	N
Map date:	2001	w E
Scale:	1:10,000	
Printed at:	1:10,000	S

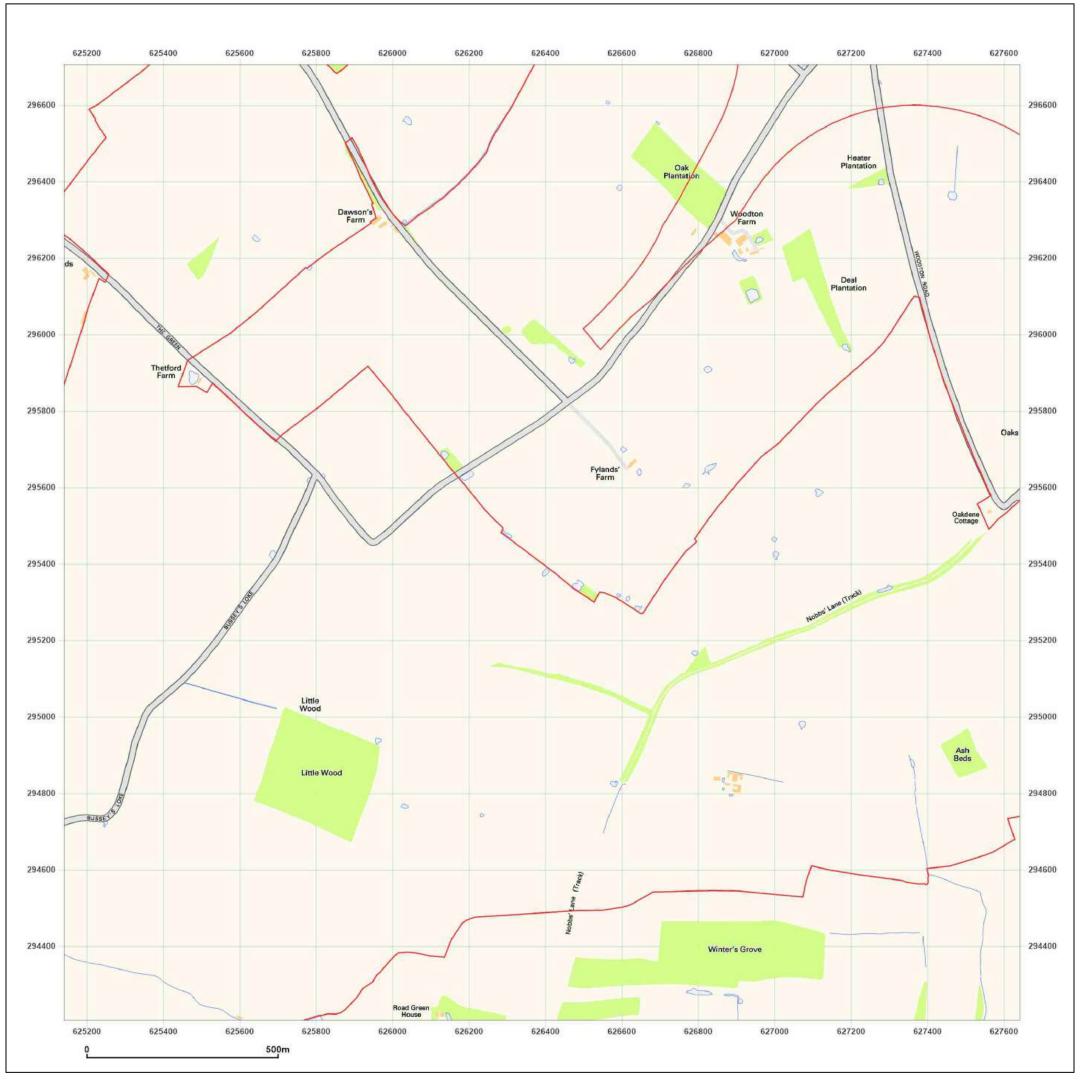
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5_ 626391, 295456	_4
Map Name:	National Grid	Ν
Map date:	2010	
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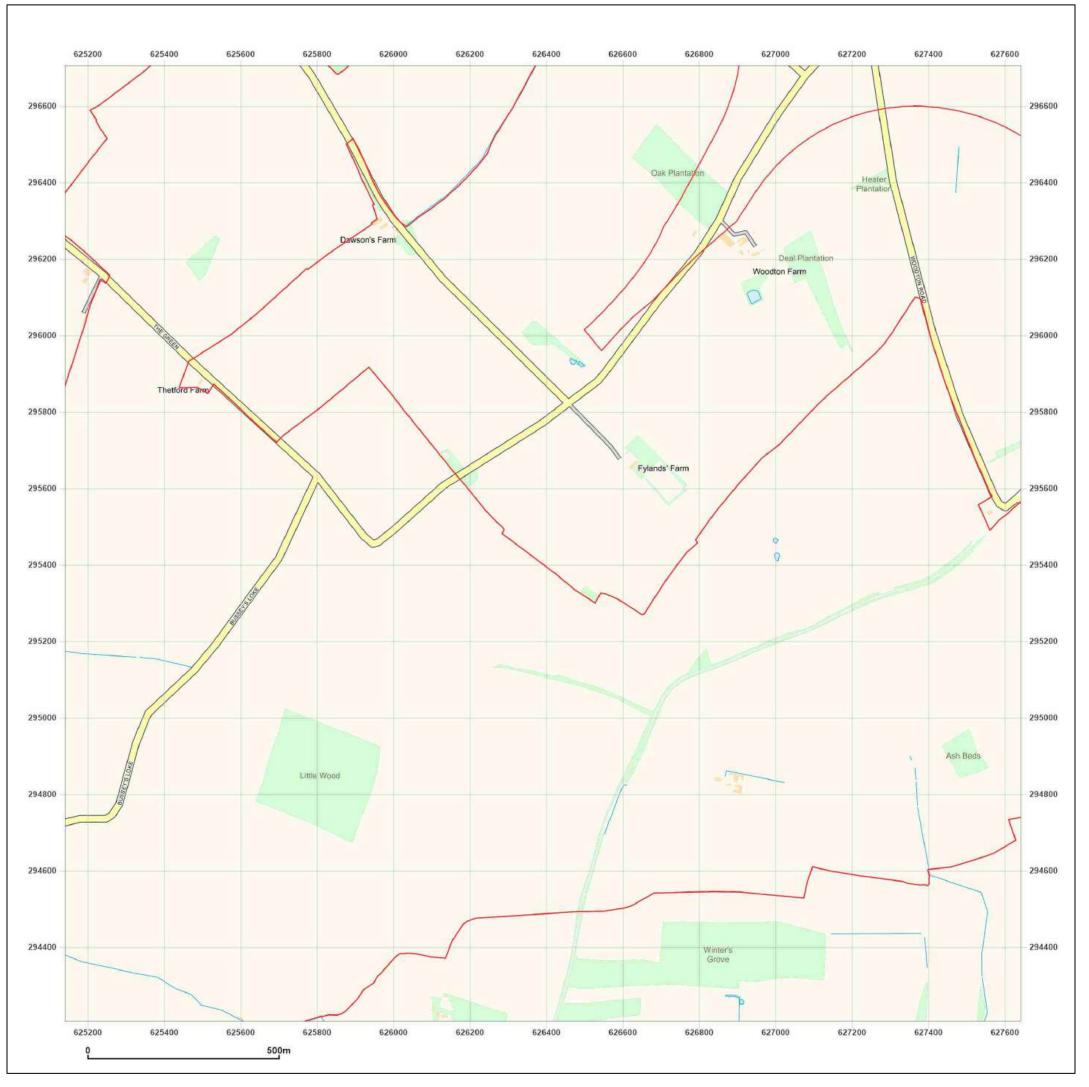
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5_4 626391, 295456	4
Map Name:	National Grid	N
Map date:	2024	
Scale:	1:10,000	
Printed at:	1:10,000	S

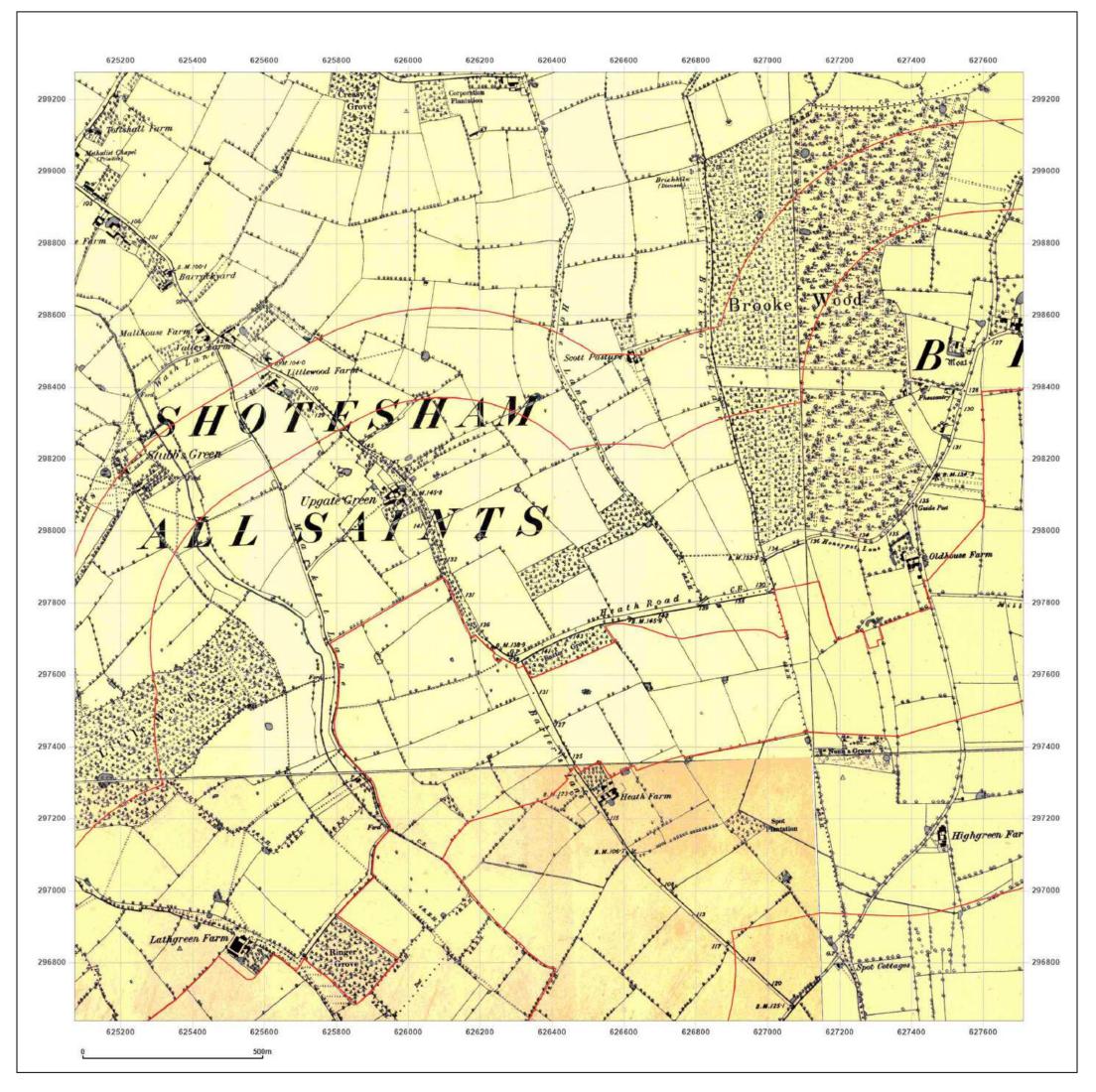
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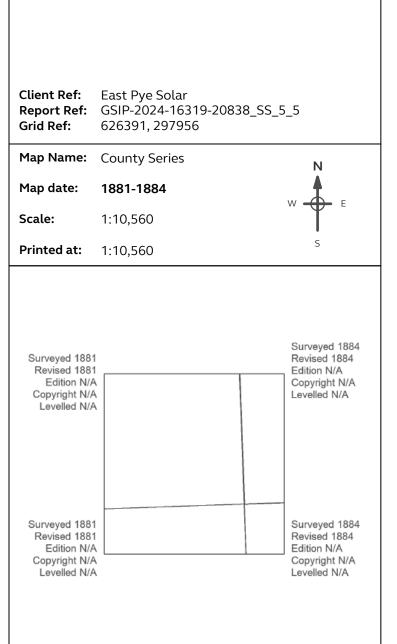


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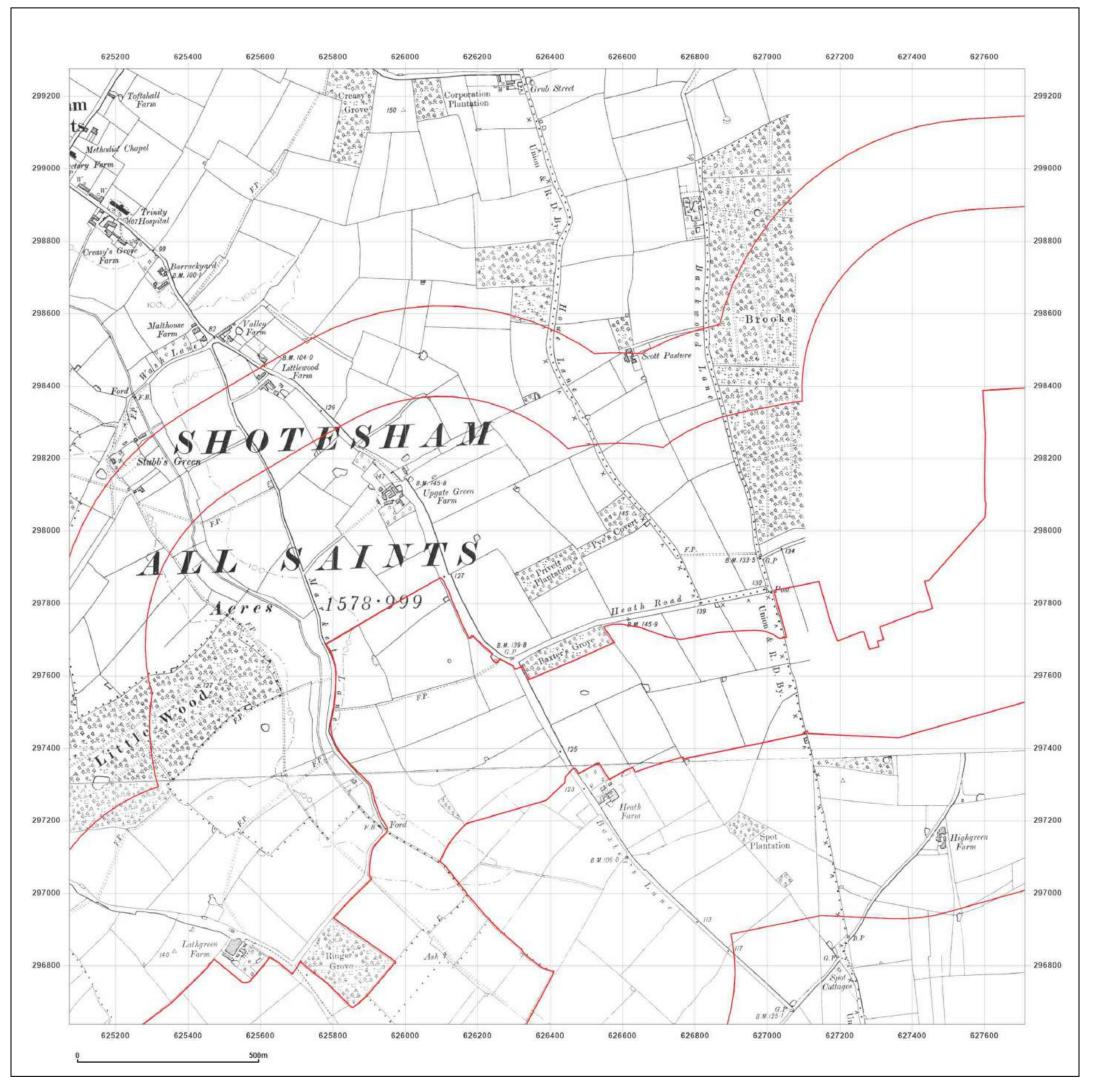
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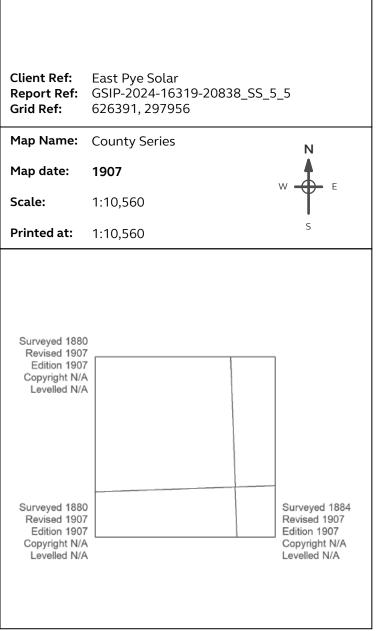


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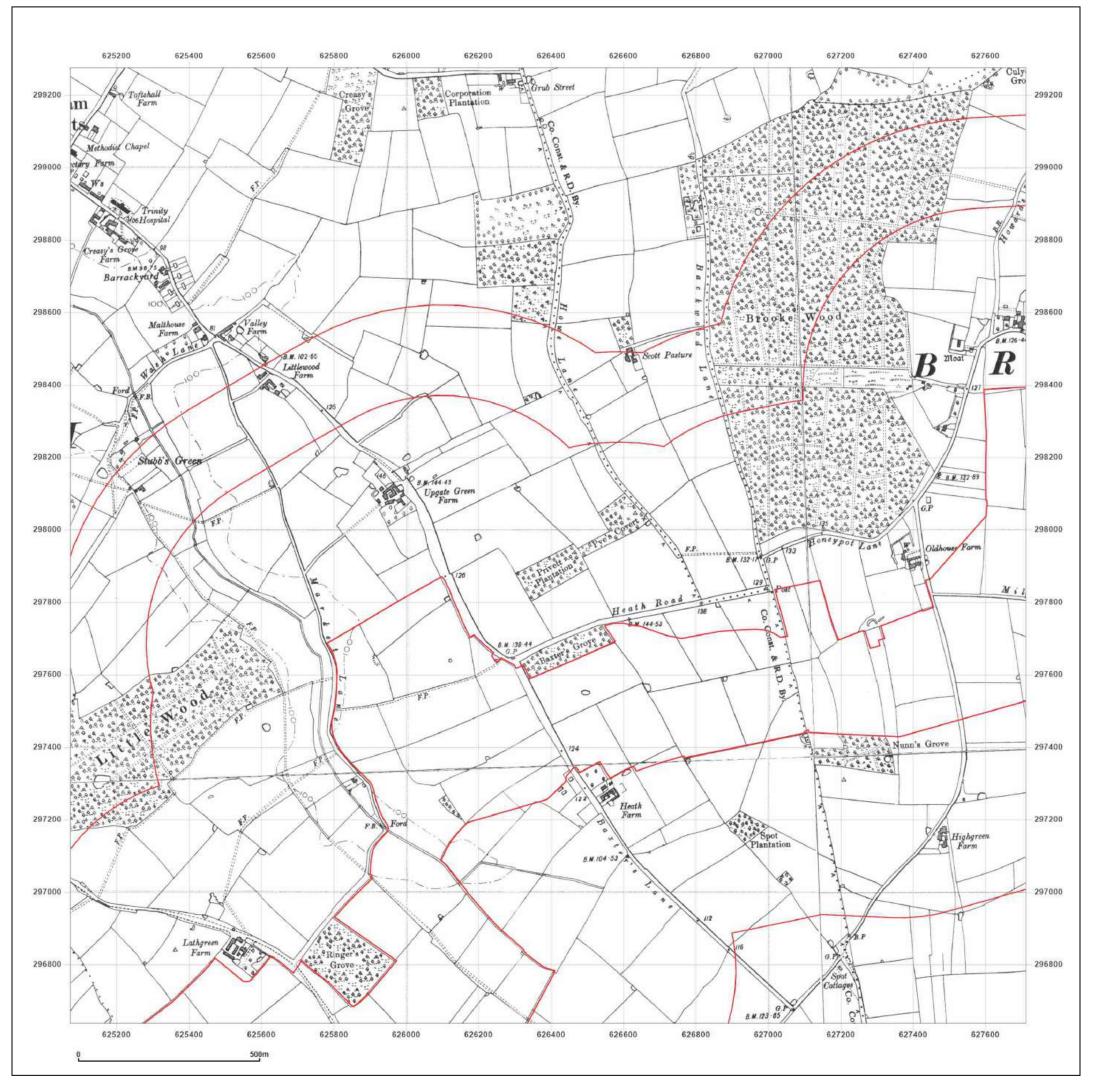
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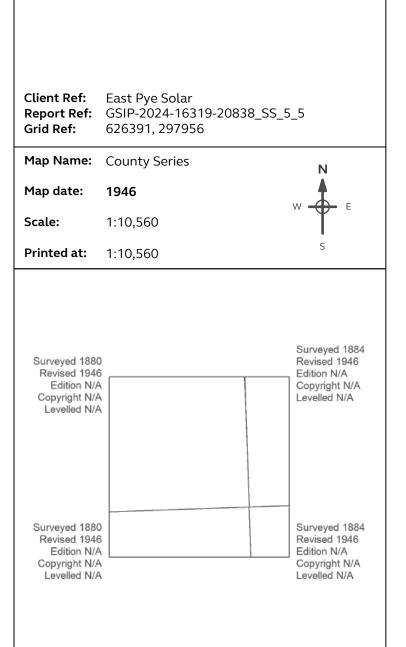


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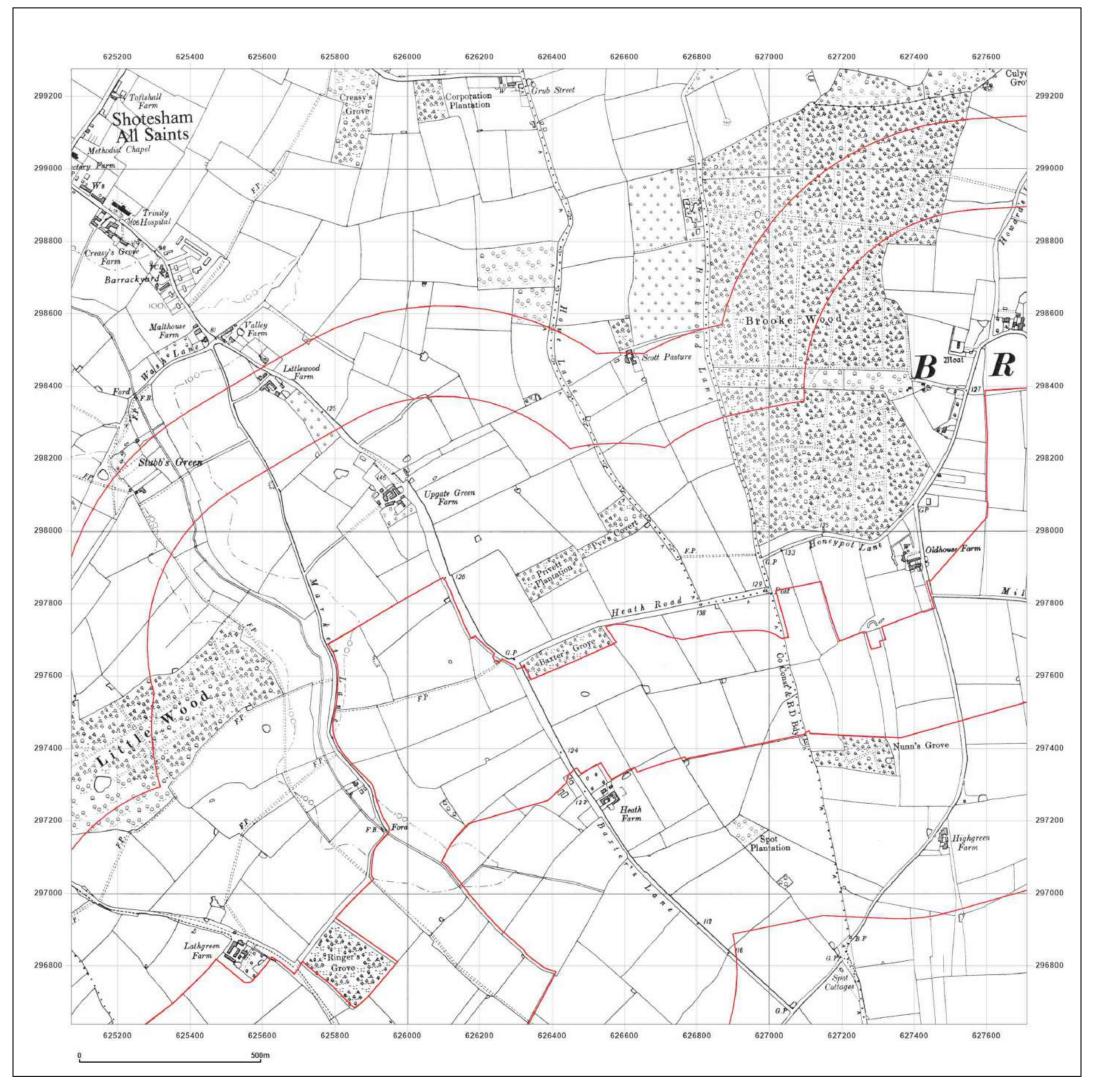
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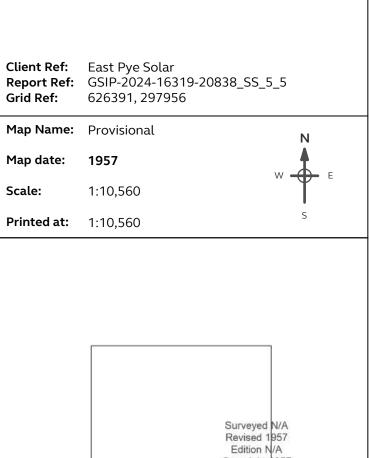


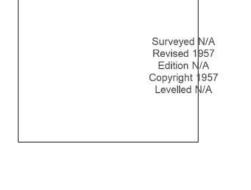
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Site Details:

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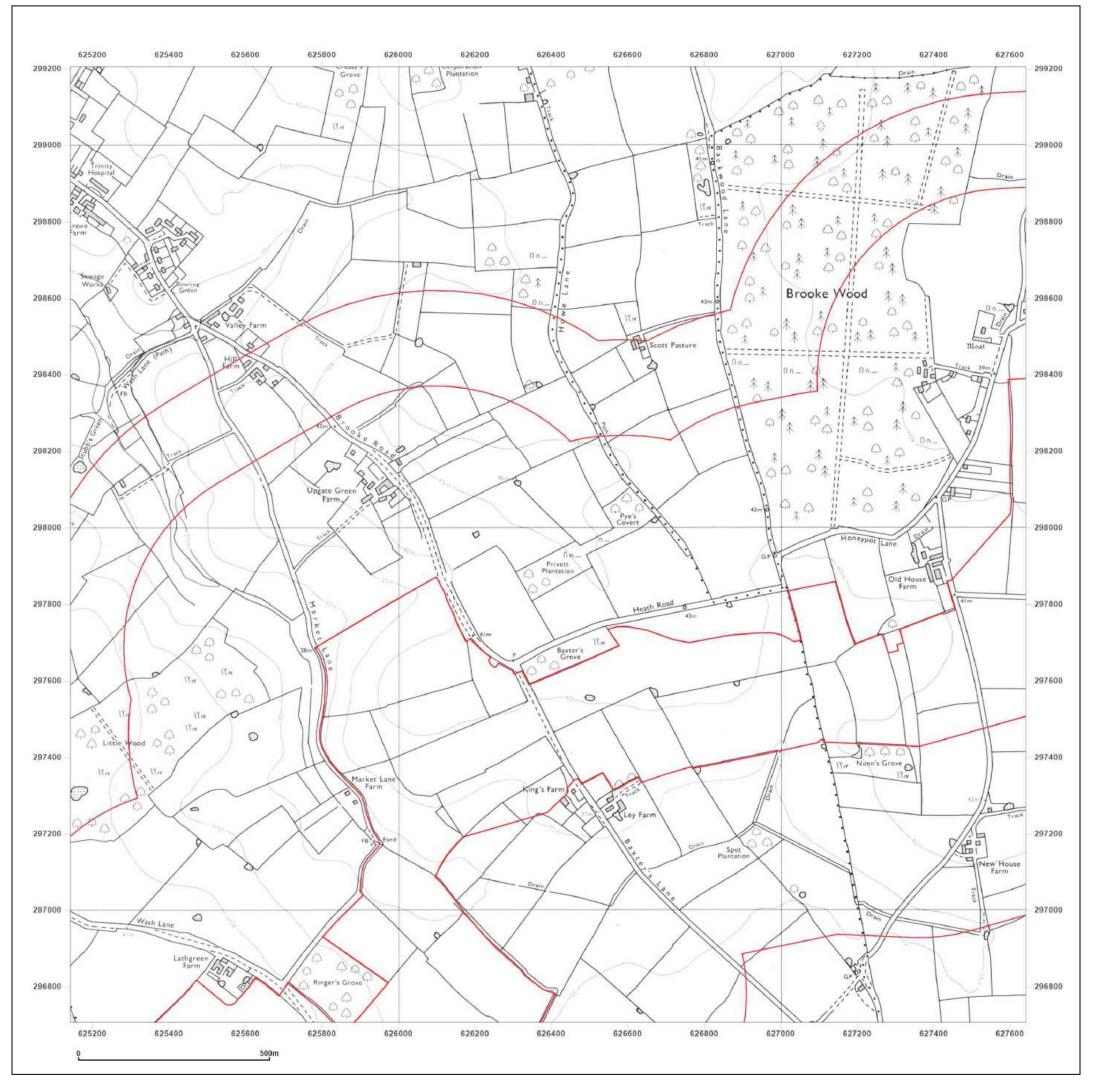




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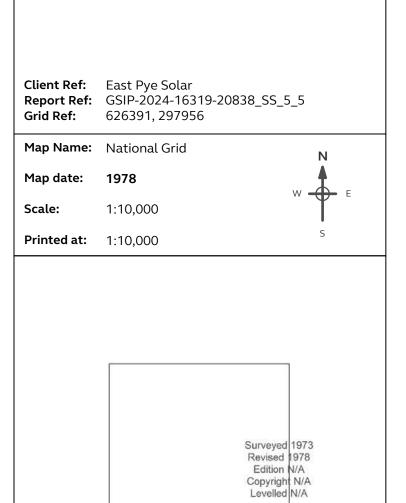


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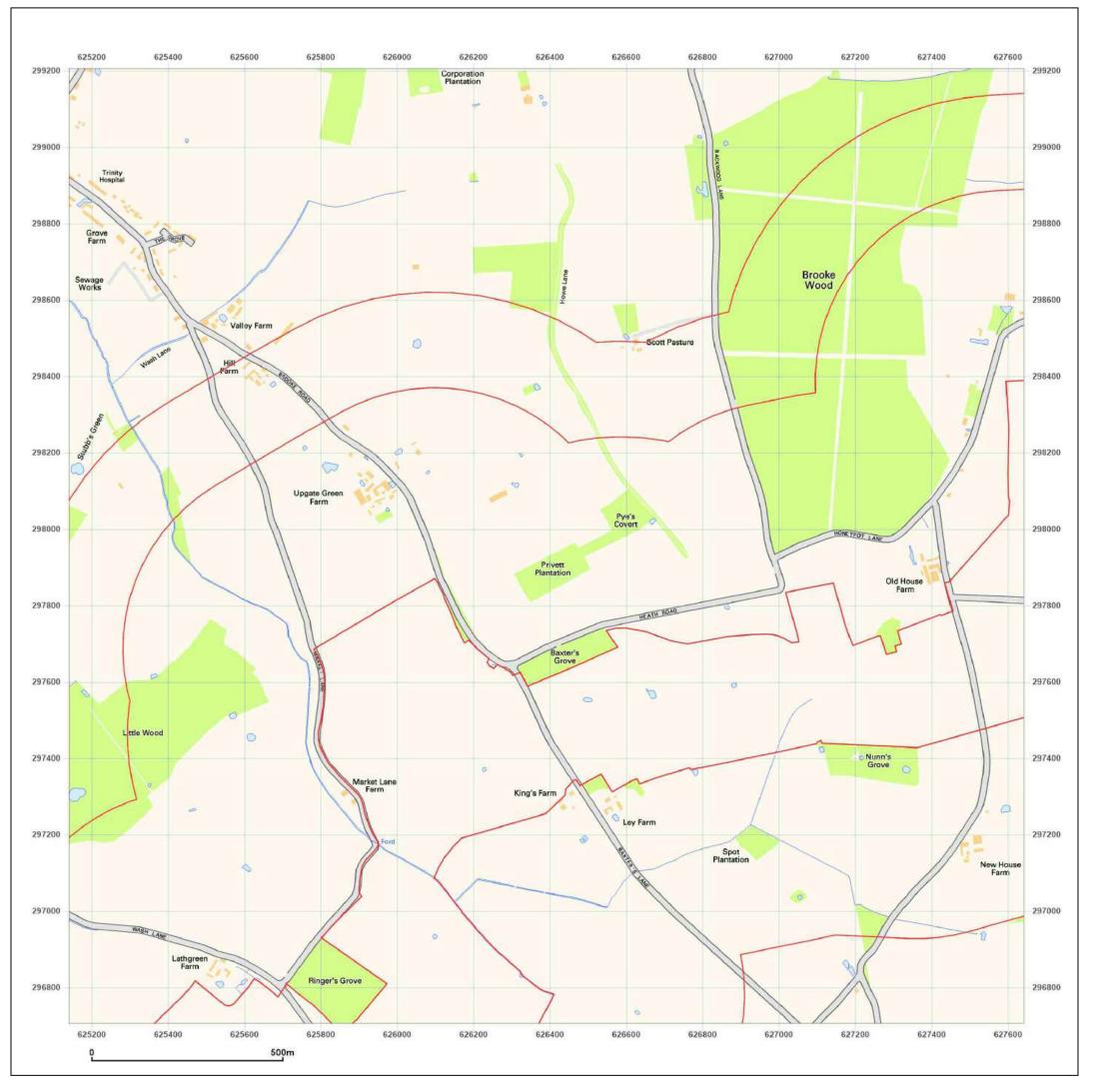




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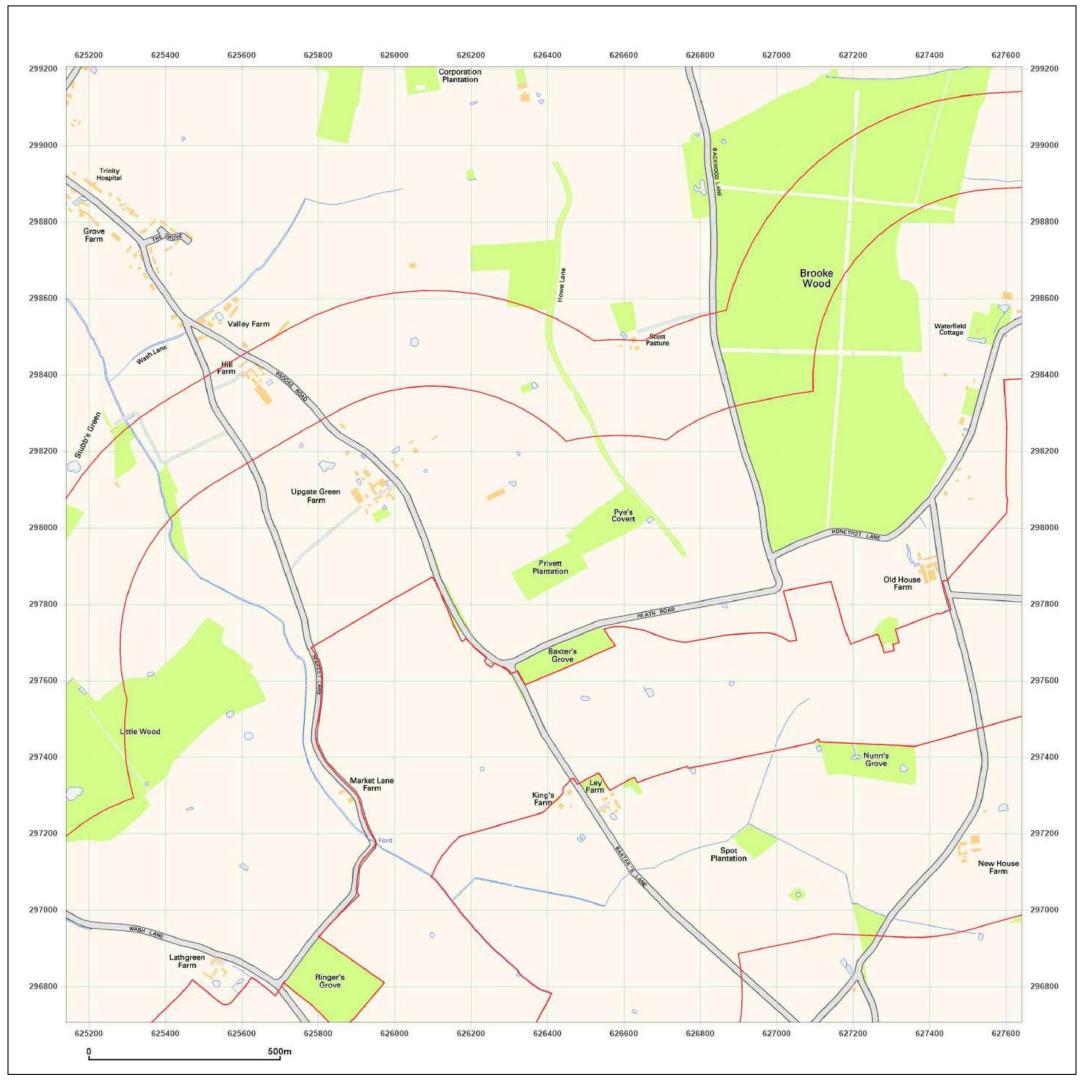
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Map Name:	National Grid	N
Map date:	2001	
Scale:	1:10,000	Ť
Printed at:	1:10,000	S

2001	



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5 626391, 297956	5_5
Map Name:	National Grid	Ν
Map date:	2010	W E
Scale:	1:10,000	
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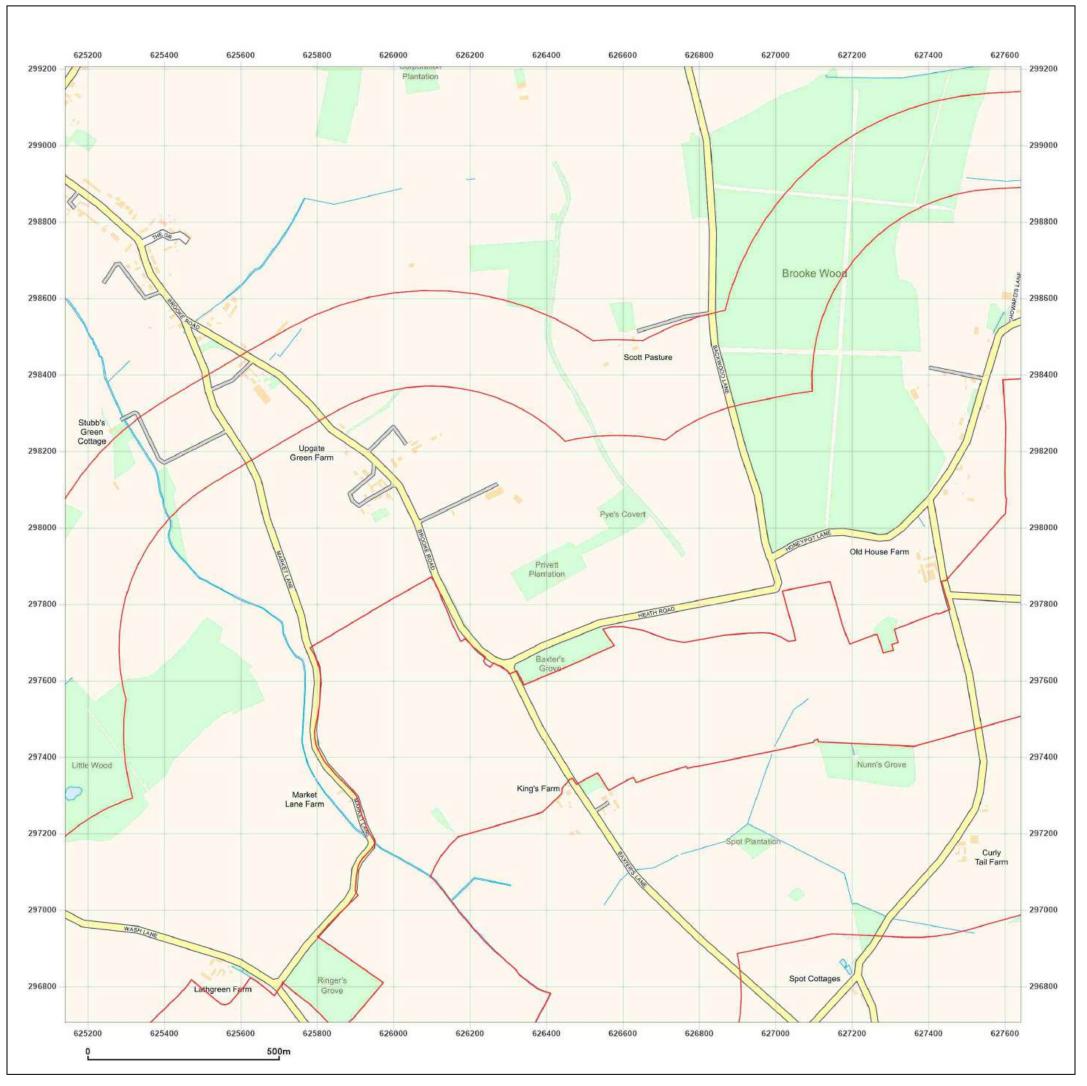
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_5_ 626391, 297956	5
Map Name:	National Grid	Ν
Map date:	2024	
Scale:	1:10,000	T I
Printed at:	1:10,000	S

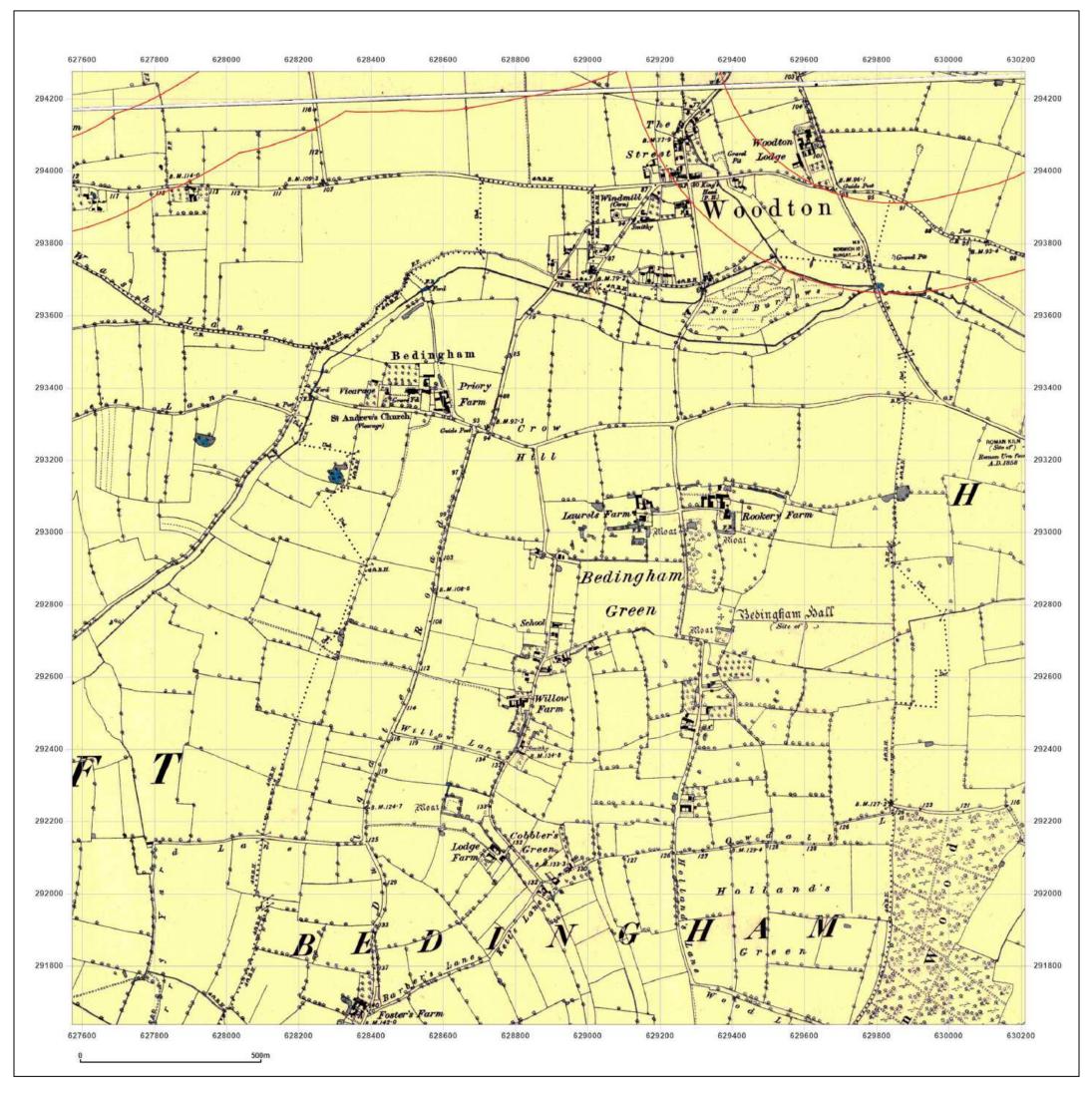
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Production date: 22 August 2024

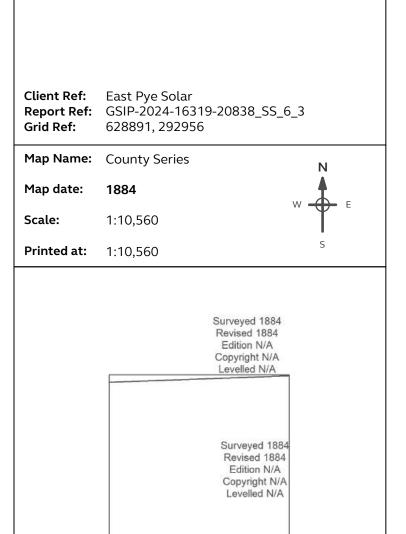


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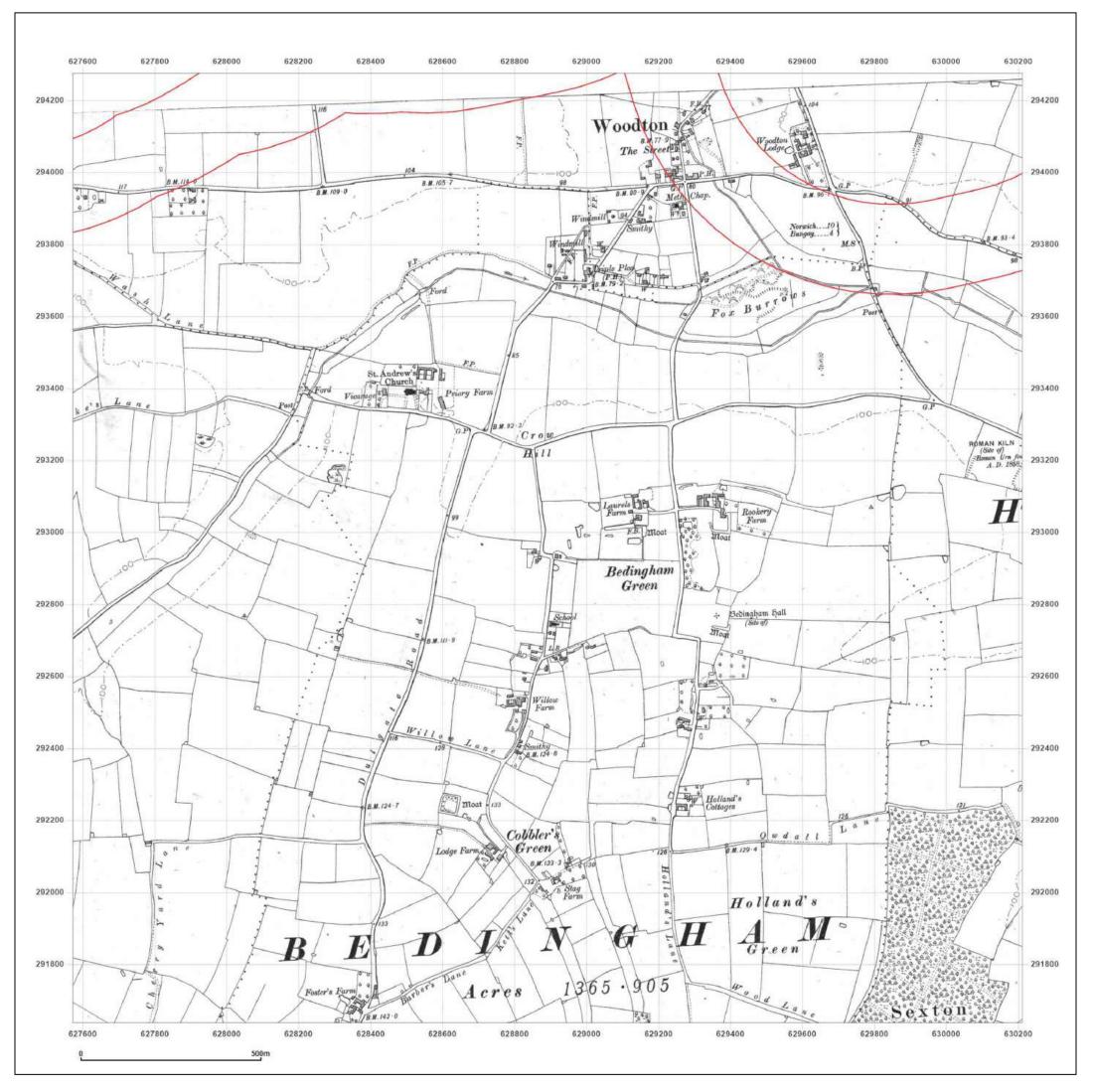




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Production date: 22 August 2024



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	
Map Name:	County Series N
Map date:	1904 w
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>

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

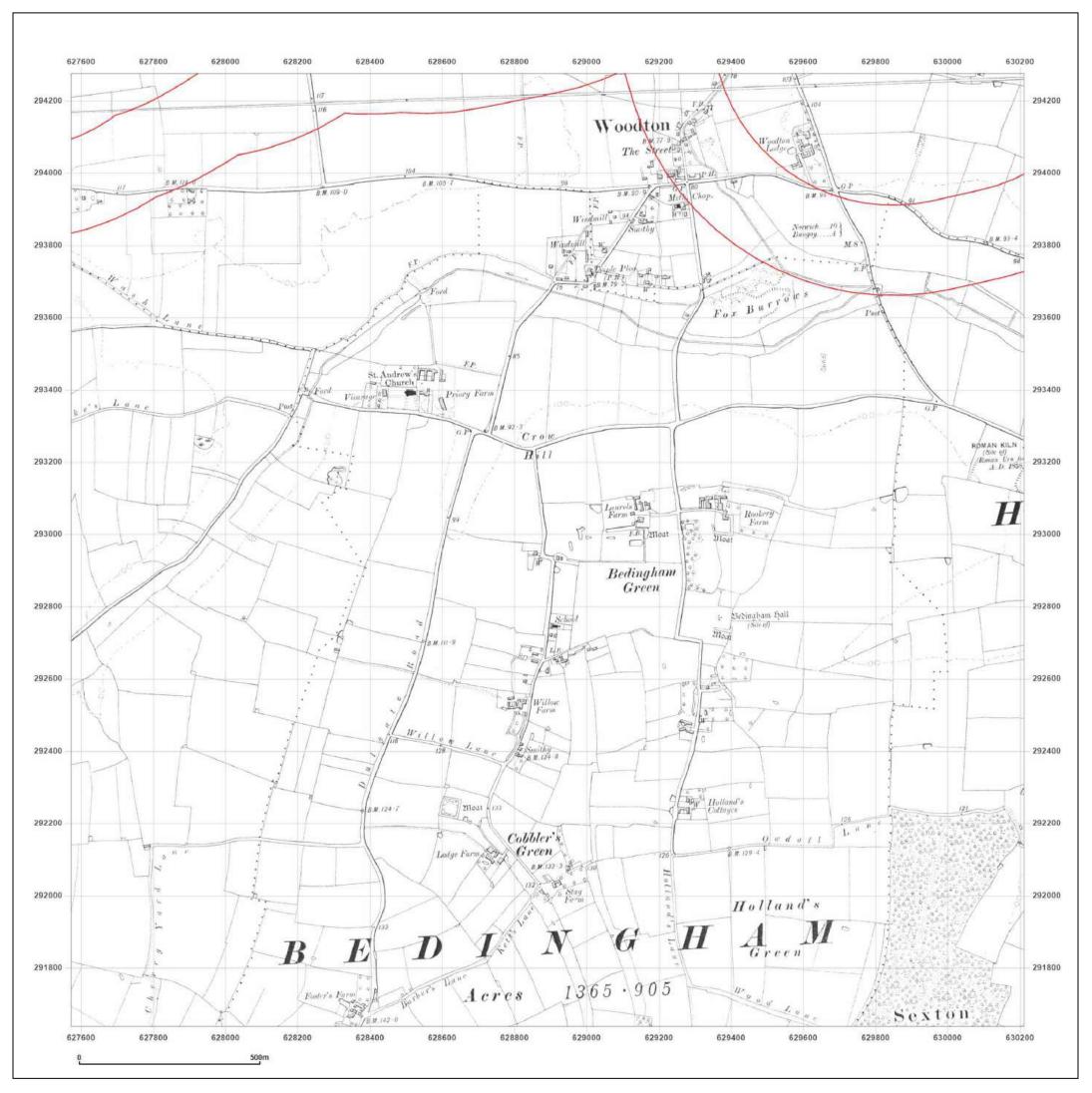


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Production date: 22 August 2024

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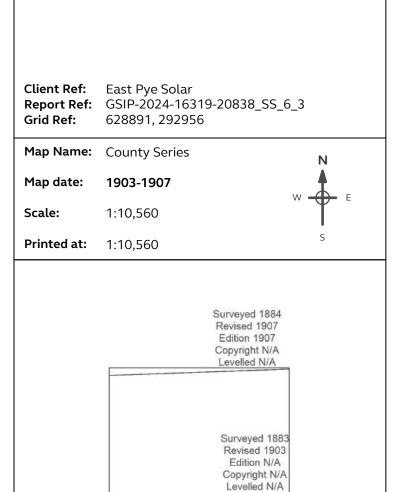


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Site Details:

Long Stratton

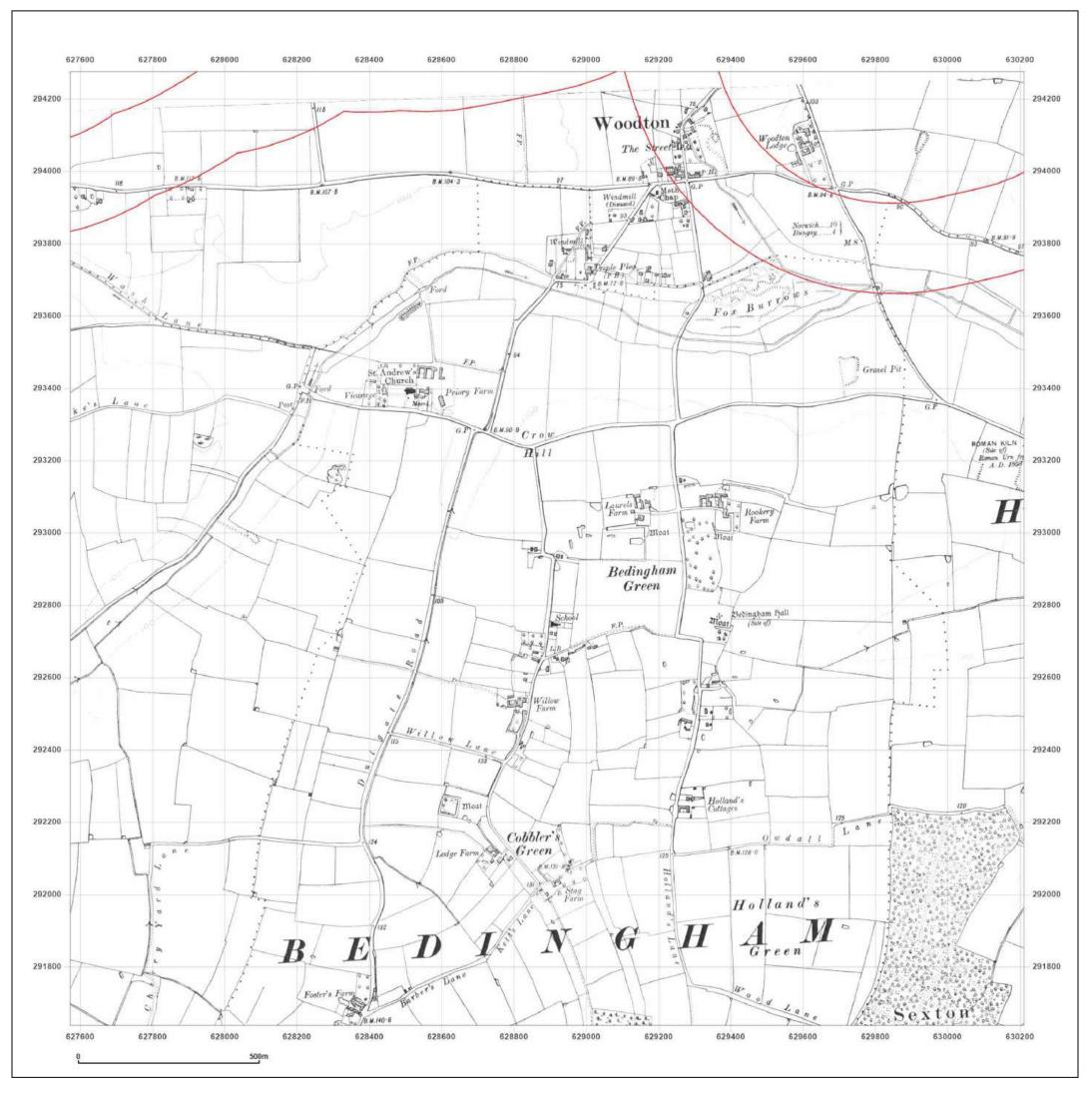




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Production date: 22 August 2024



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6_3 628891, 292956
Map Name:	County Series N
Map date:	1928
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>

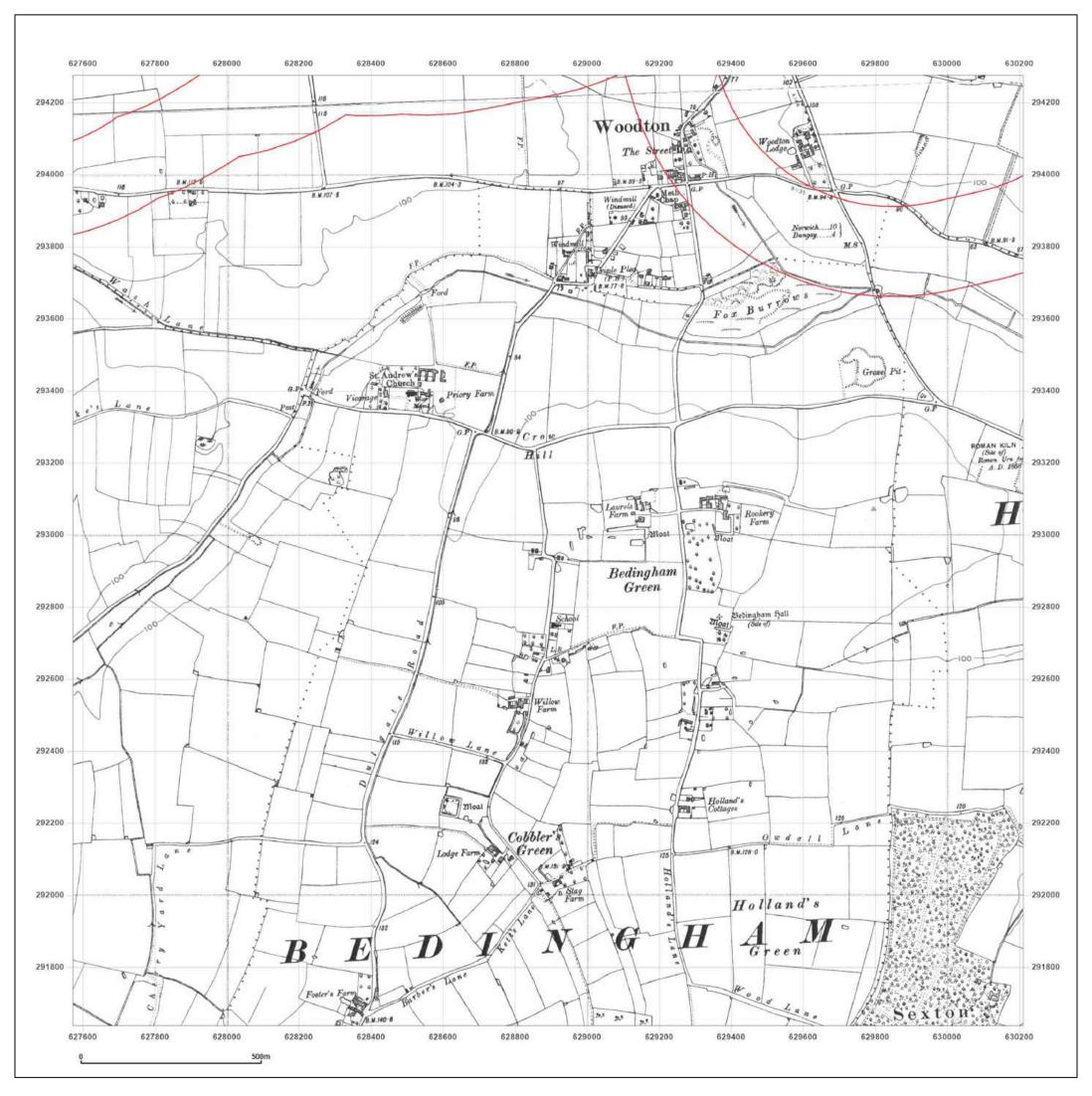
Surveyed 1883 Revised 1928 Edition 1928 Copyright N/A Levelled N/A



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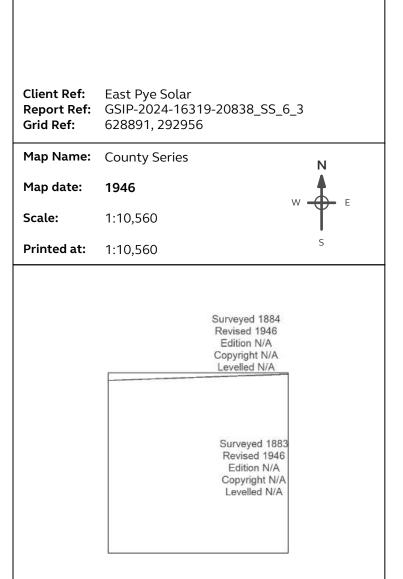
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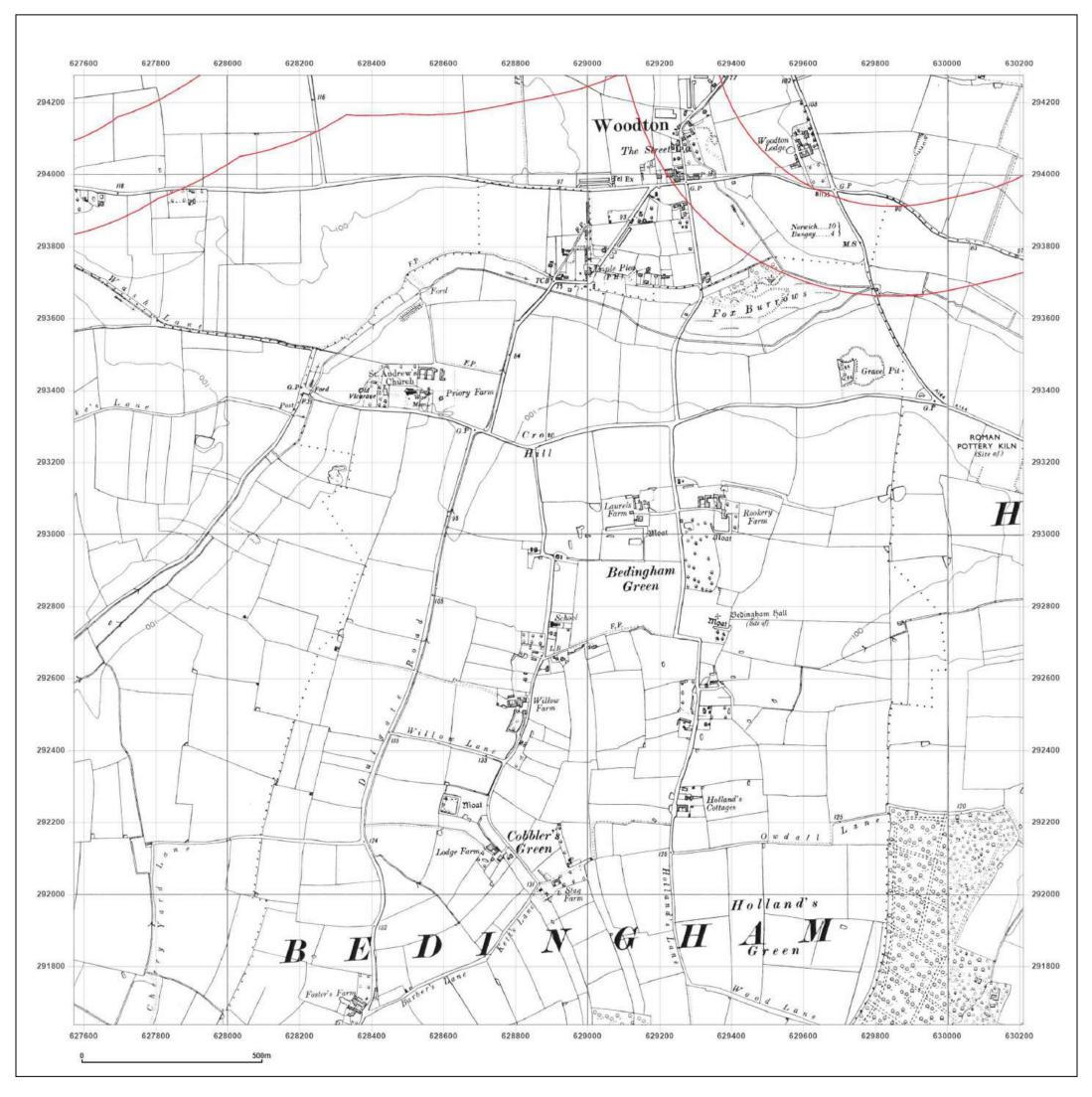




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Production date: 22 August 2024

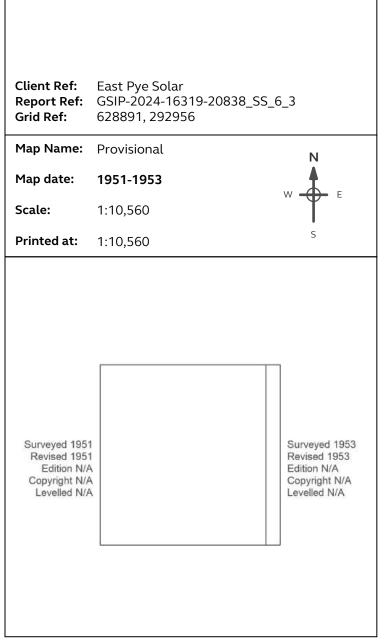


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Site Details:

Long Stratton

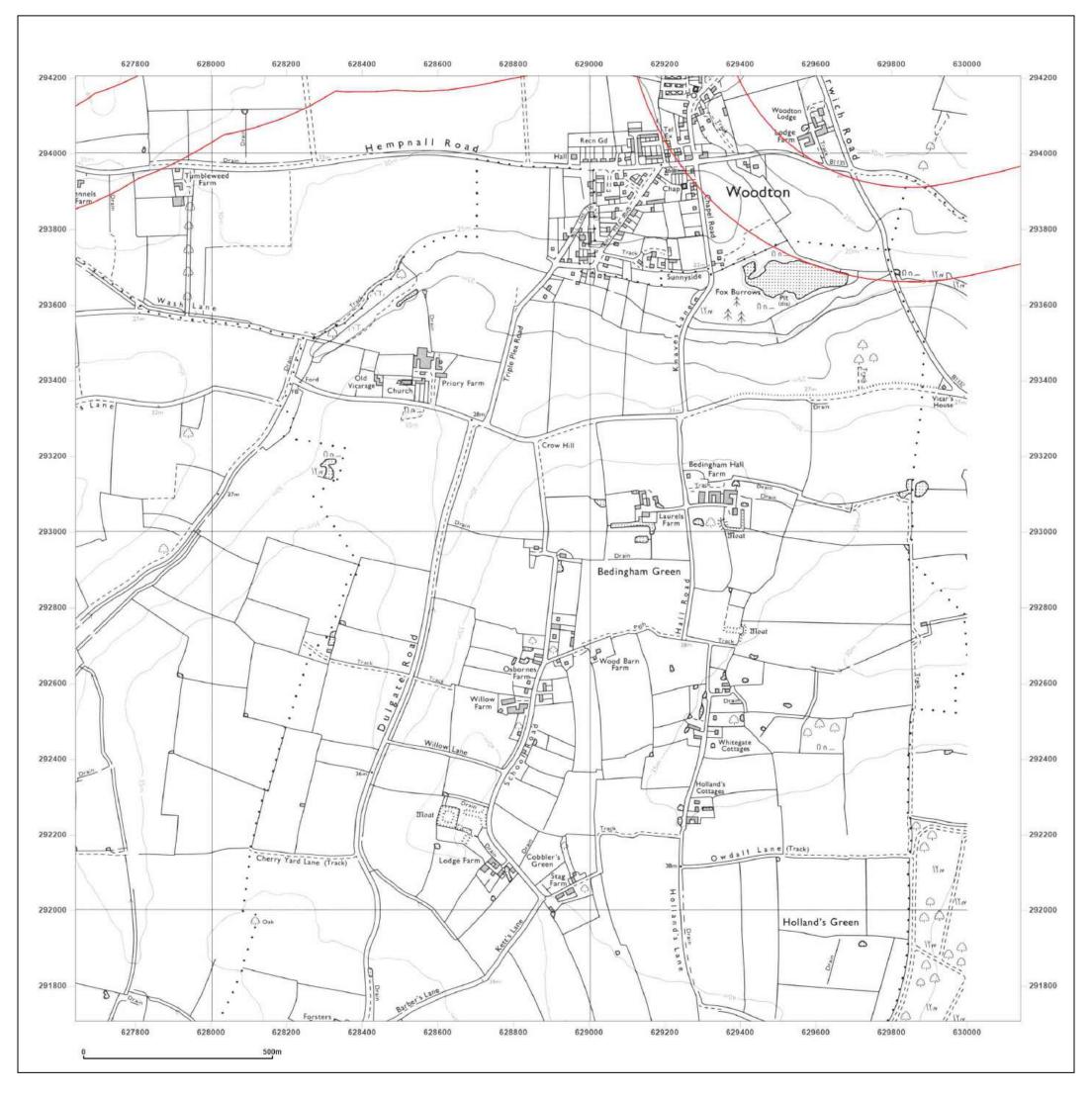




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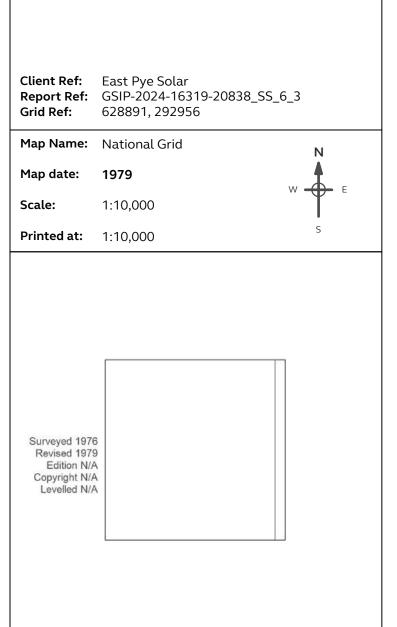
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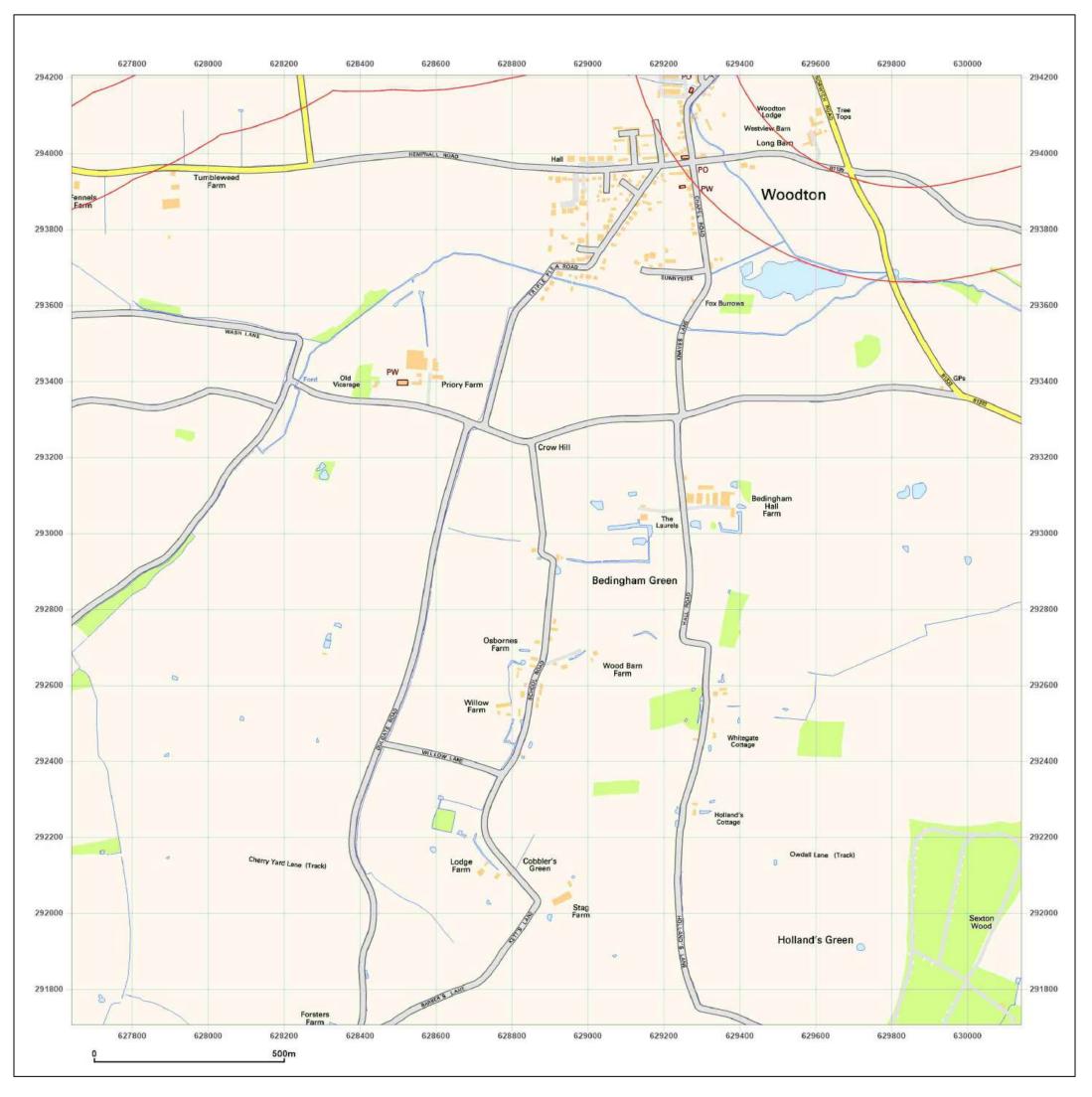


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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6_ 628891, 292956	_3
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Map date:	2001	
Scale:	1:10,000	
Printed at:	1:10,000	S

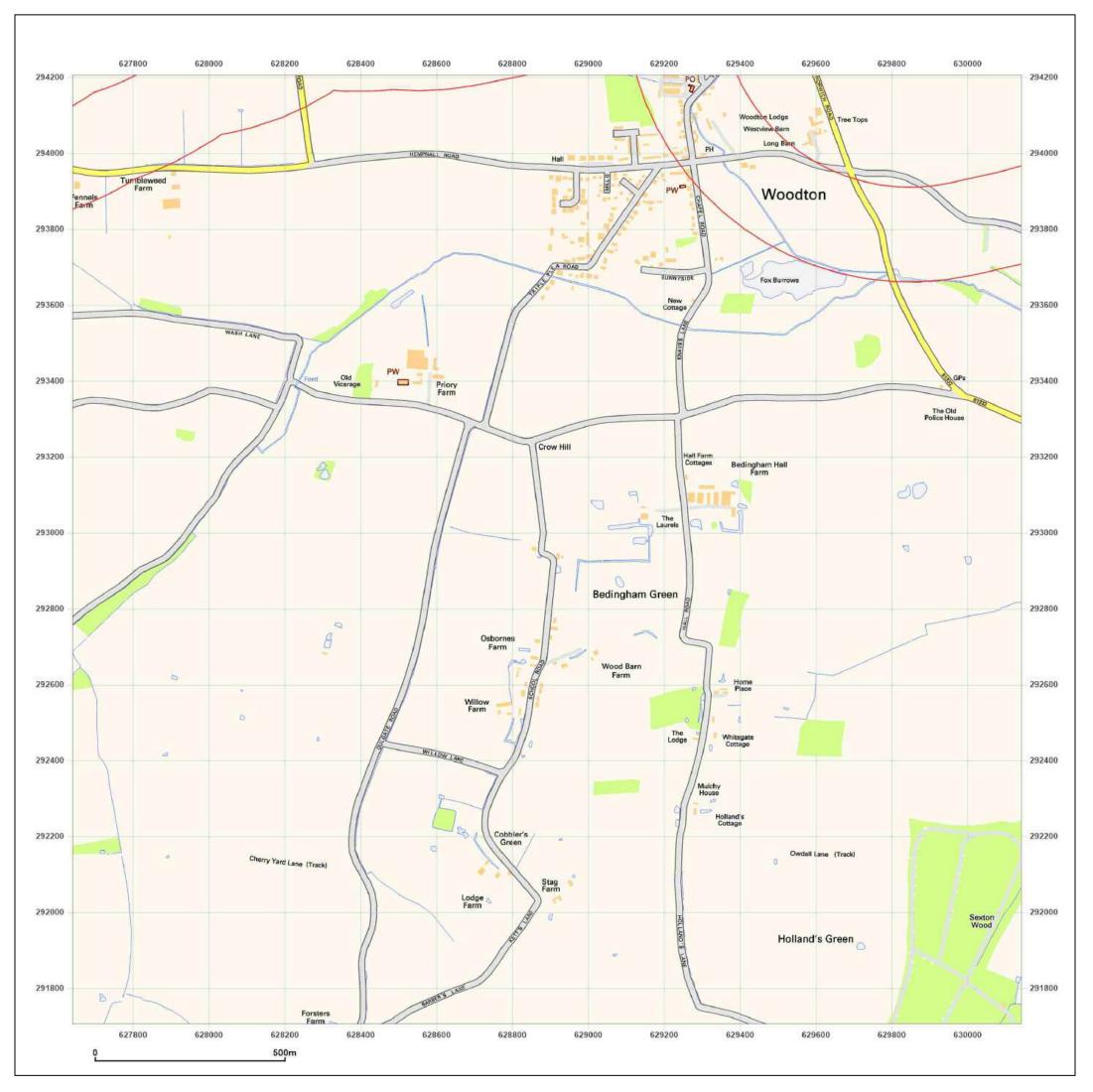
2001	



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Production date: 22 August 2024

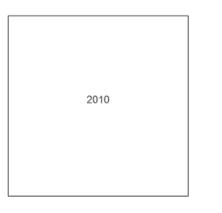




Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6 628891, 292956	5_3
Map Name:	National Grid	N
Map date:	2010	W E
Scale:	1:10,000	Ϋ́Υ -
Printed at:	1:10,000	S



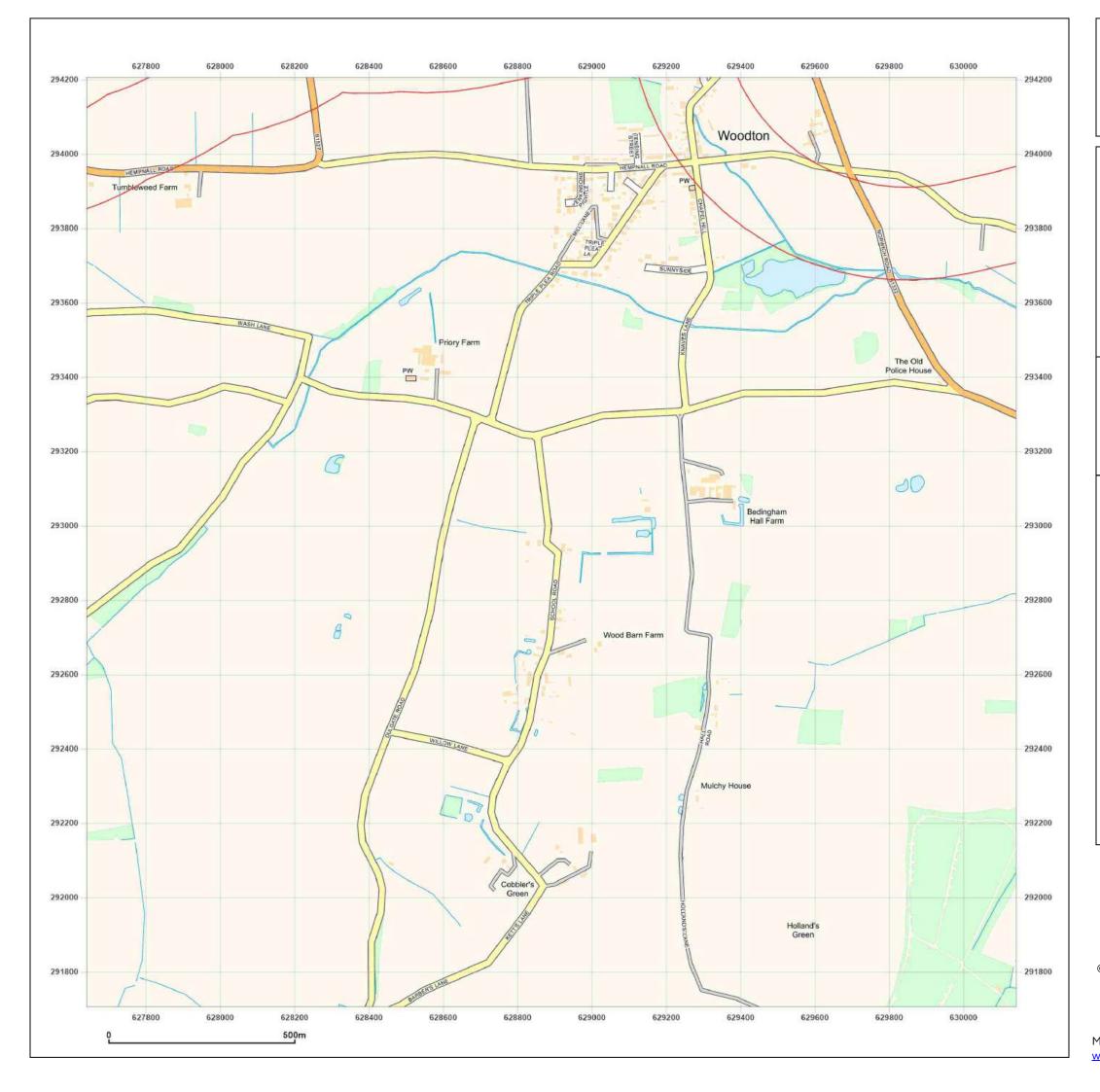


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Production date: 22 August 2024

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





Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6 628891, 292956	_3
Map Name:	National Grid	N
Map date:	2024	W E
Scale:	1:10,000	Ϋ́Ύ
Printed at:	1:10,000	S

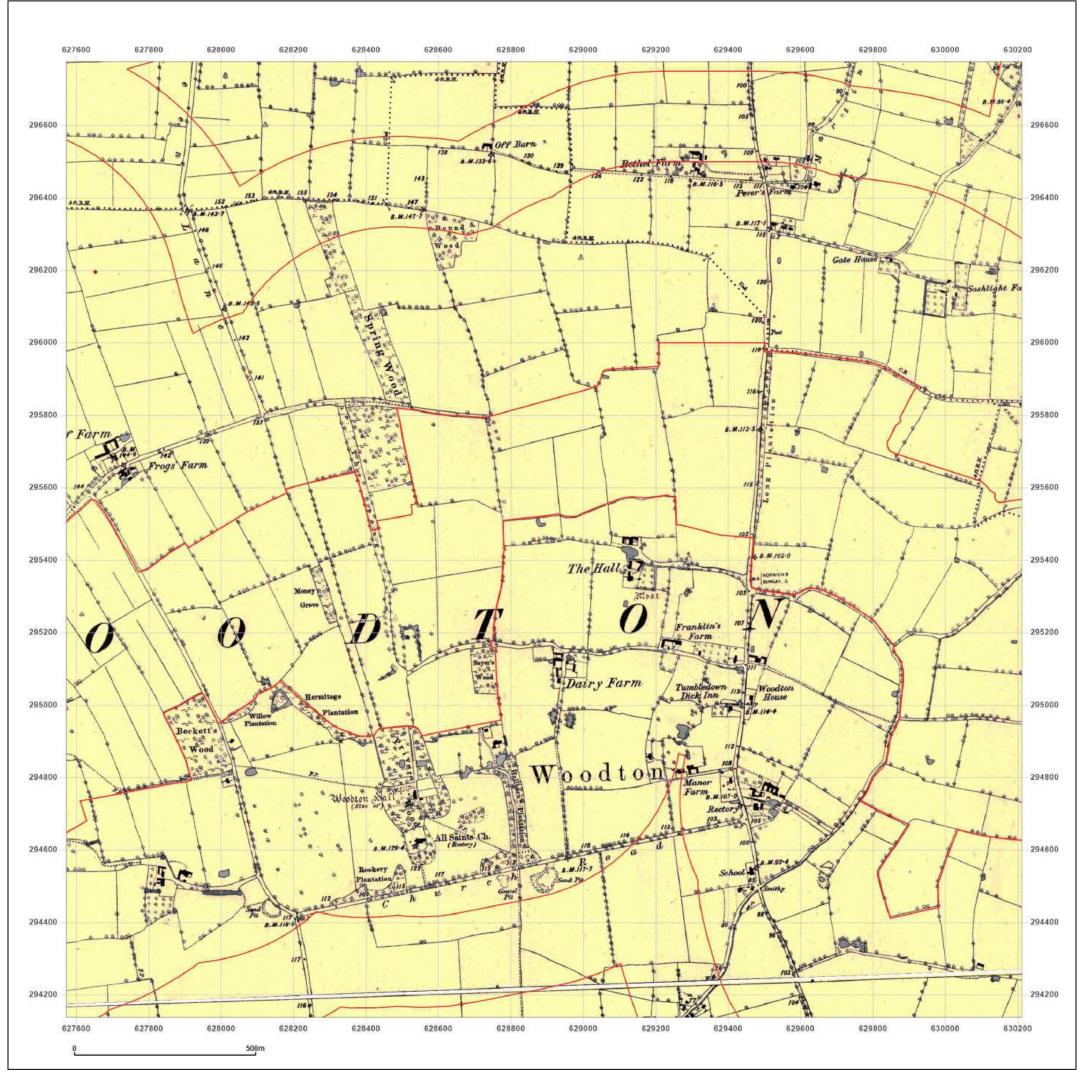
2024	



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Production date: 22 August 2024 Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

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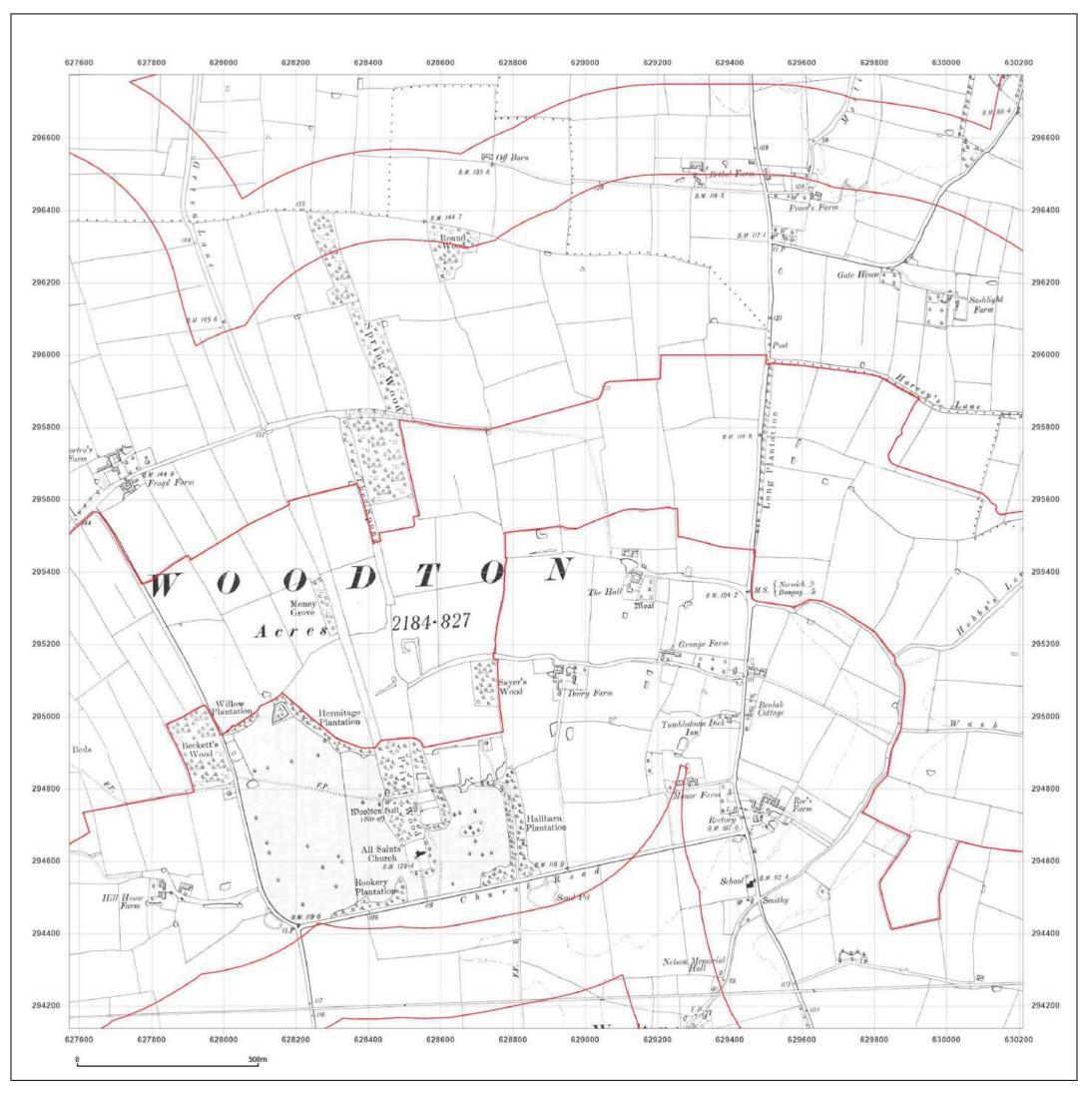
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Map Name:	County Series N
Map date:	1884 w
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>
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Copyright N/A Levelled N/A Surveyed 1884 Revised 1884 Edition N/A Copyright N/A Levelled N/A



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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	5	_6_4
Map Name:	County Series	N
Map date:	1903-1907	W E
Scale:	1:10,560	
Printed at:	1:10,560	S
	Surveyed 1884	ŧ

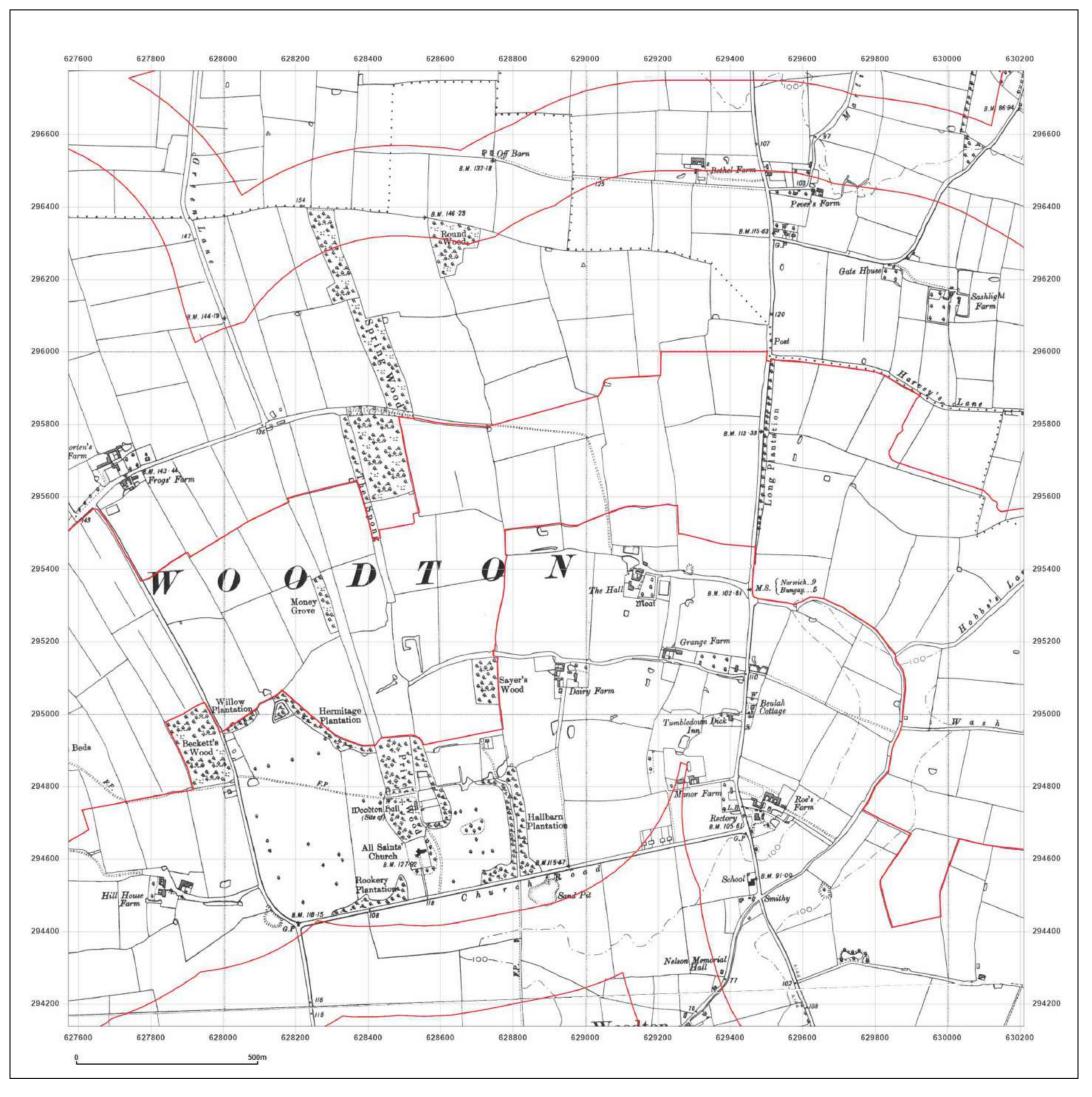
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Surveyed 1883 Revised 1903 Edition N/A
Copyright N/A Levelled N/A



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Production date: 22 August 2024





Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6_4 628891, 295456
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Map date:	1946 w
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Printed at:	1:10,560 s
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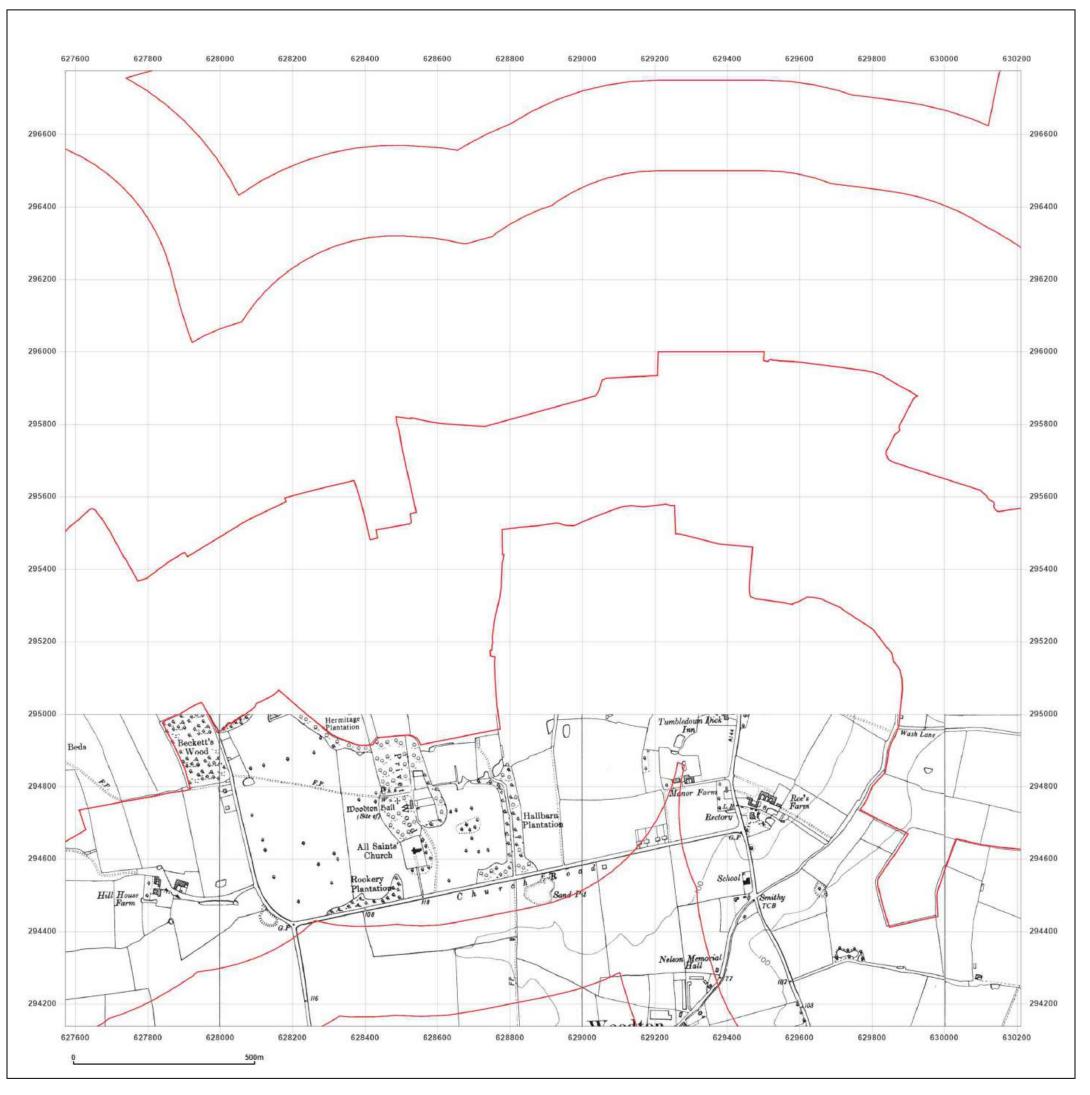
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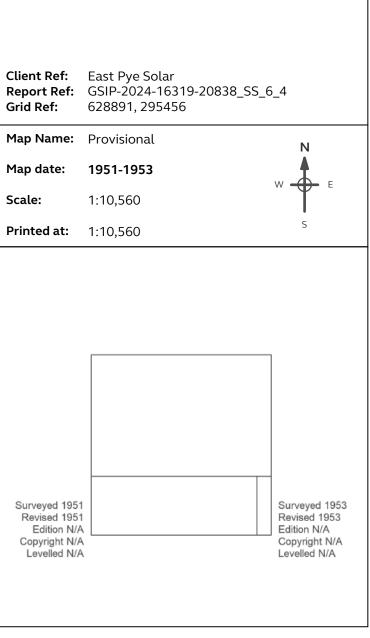


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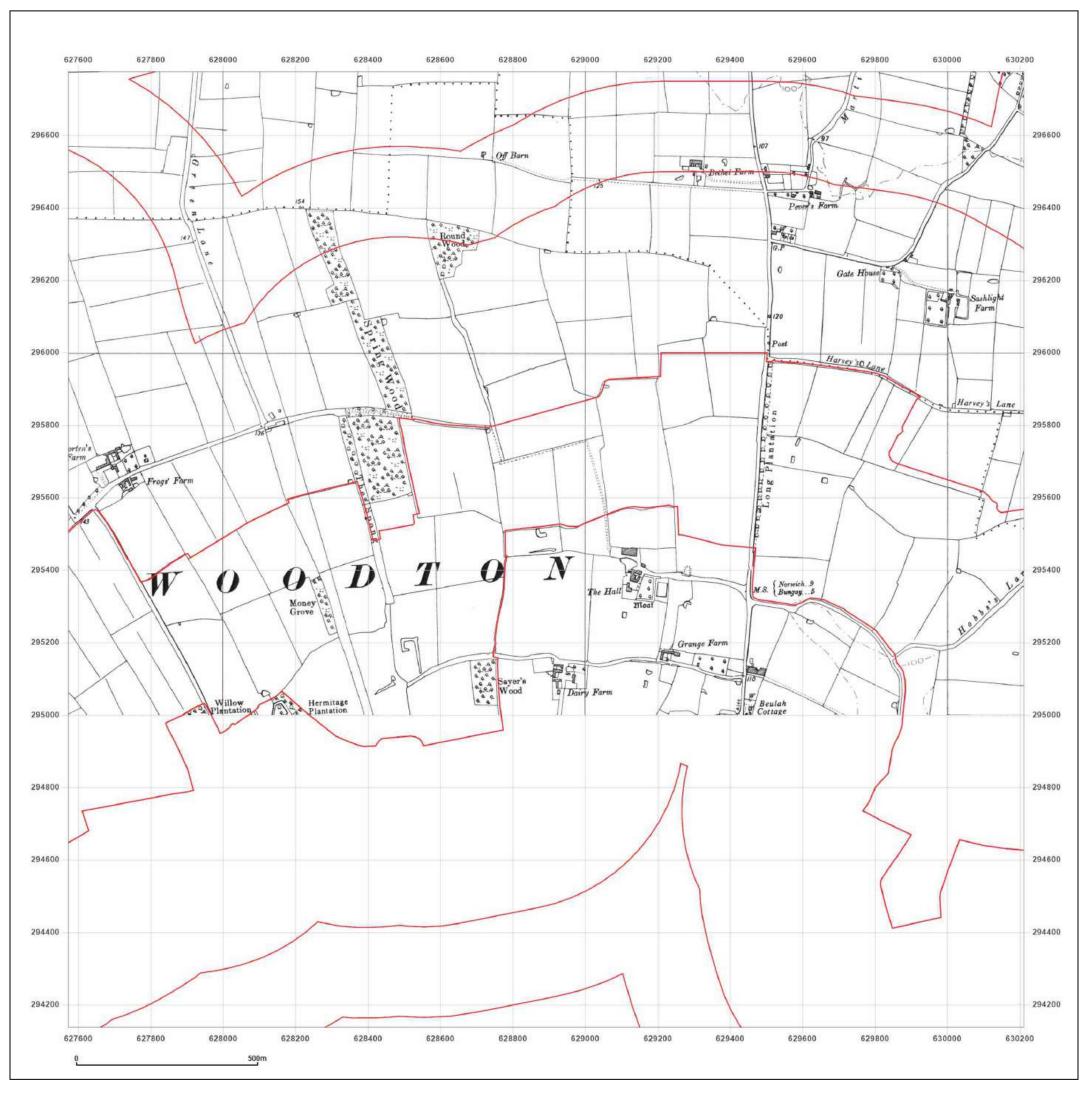
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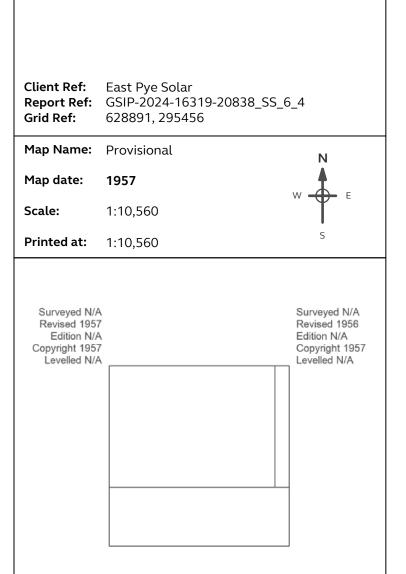
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Site Details:

Long Stratton



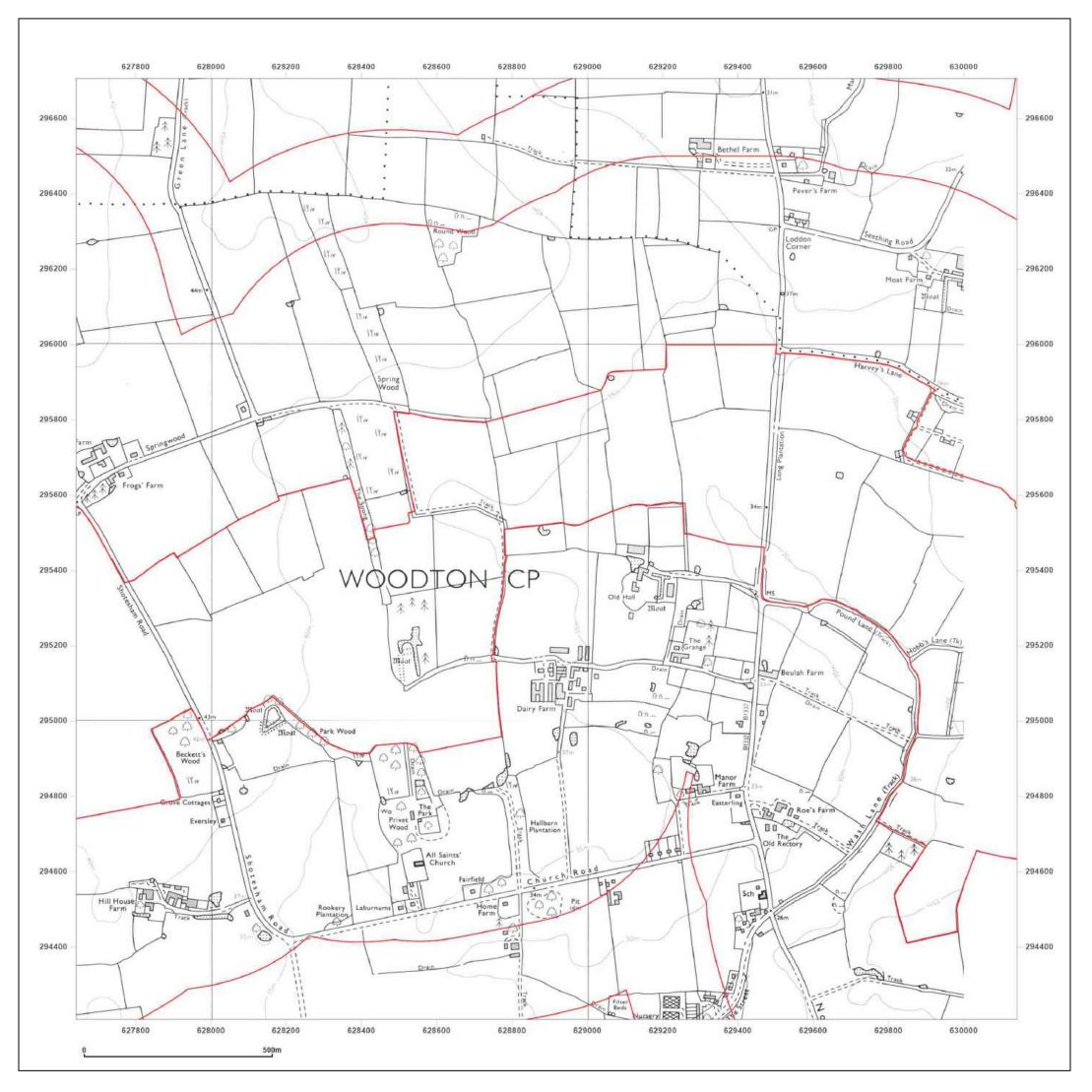


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Production date: 22 August 2024

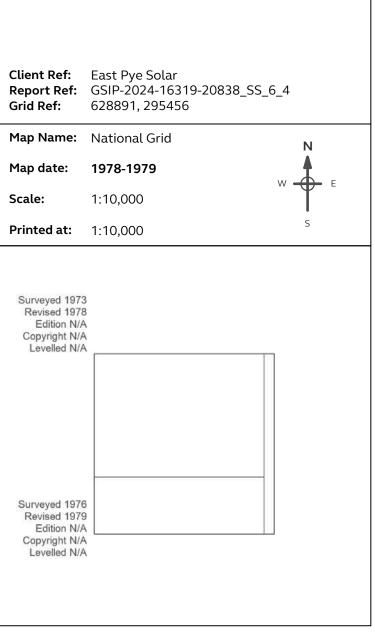
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Site Details:

Long Stratton

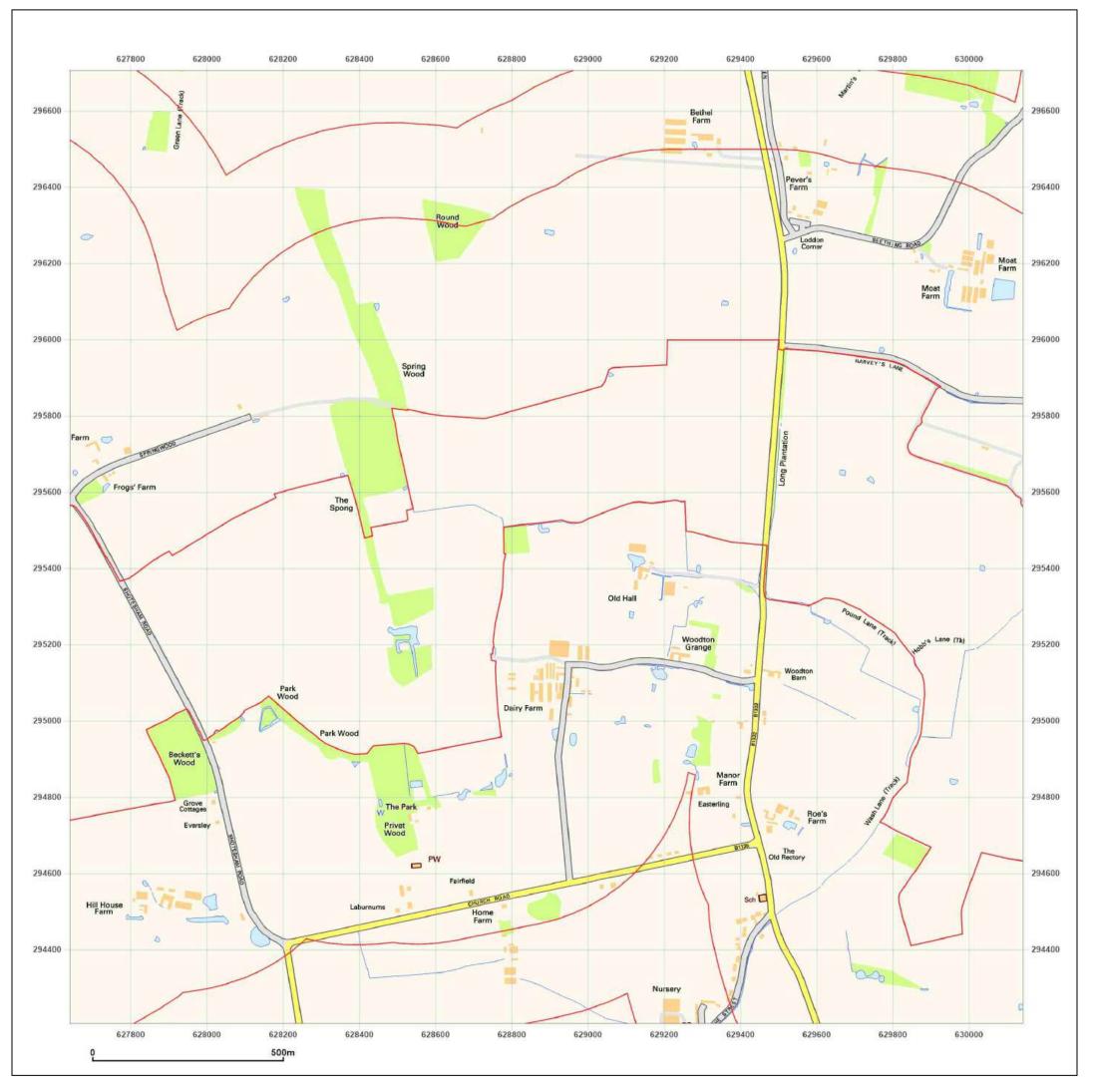




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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6 628891, 295456	5_4
Map Name:	National Grid	N
Map date:	2001	W E
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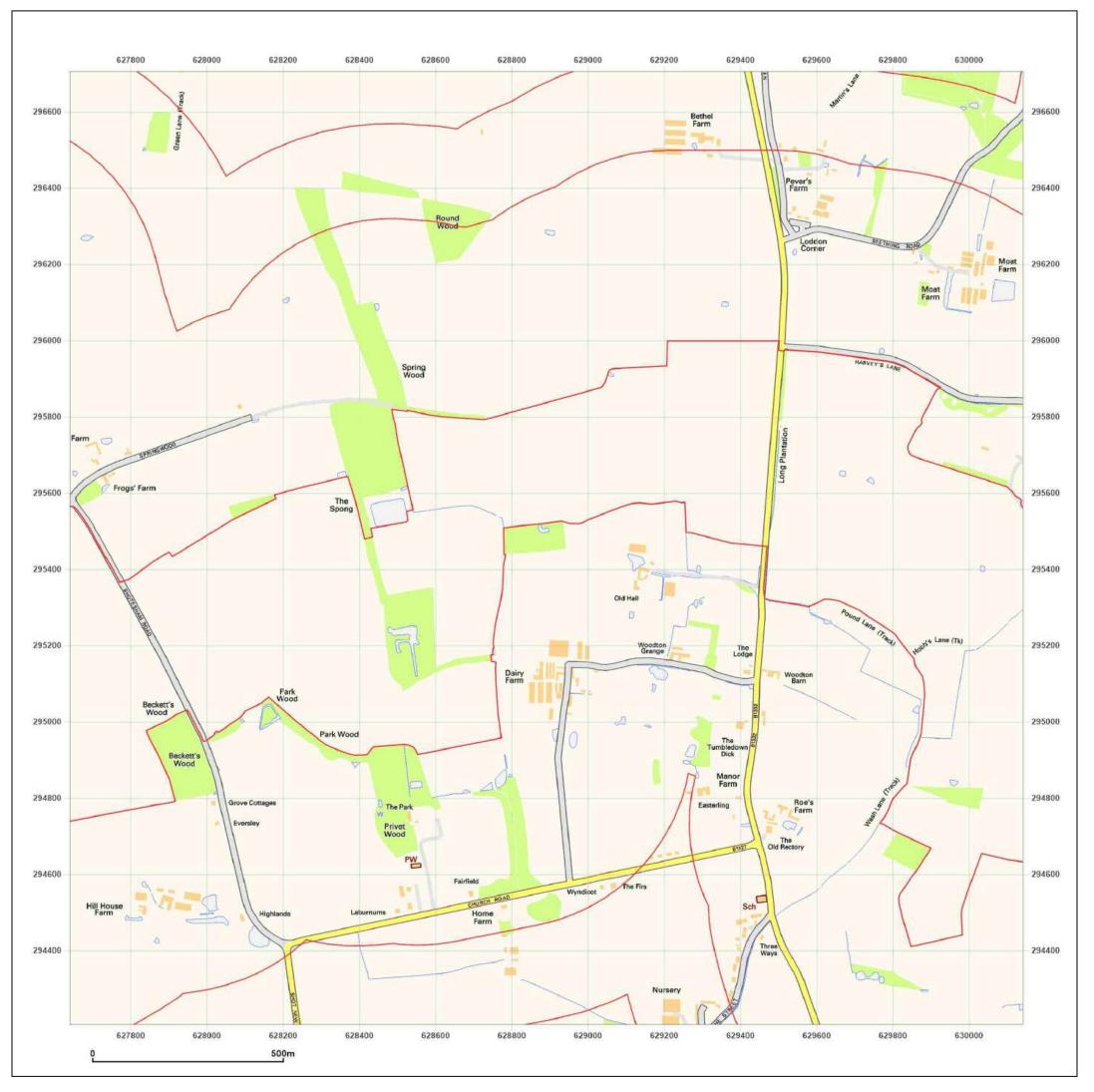
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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6 628891, 295456	_4
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Map date:	2010	
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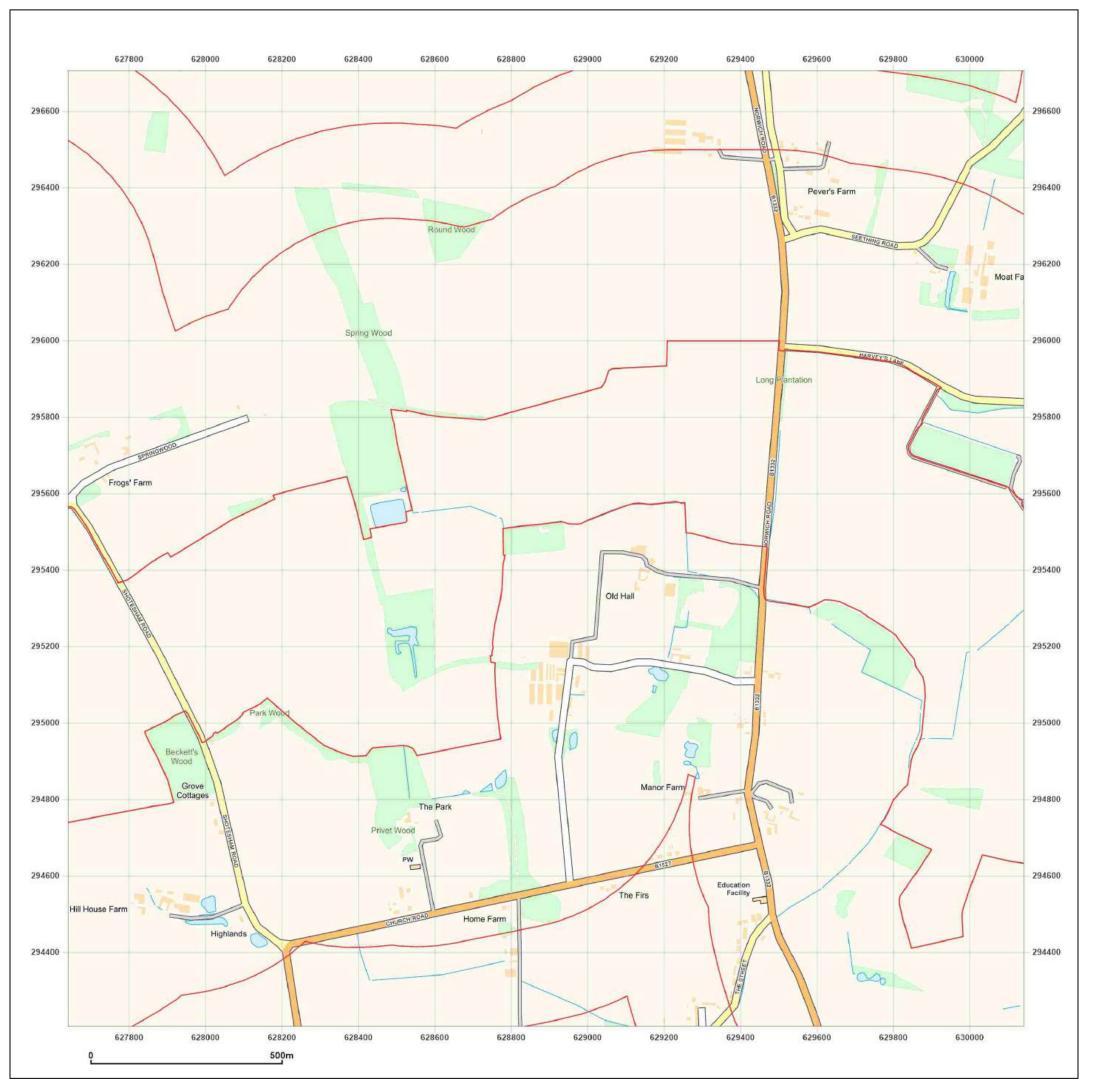


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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_6 628891, 295456	5_4
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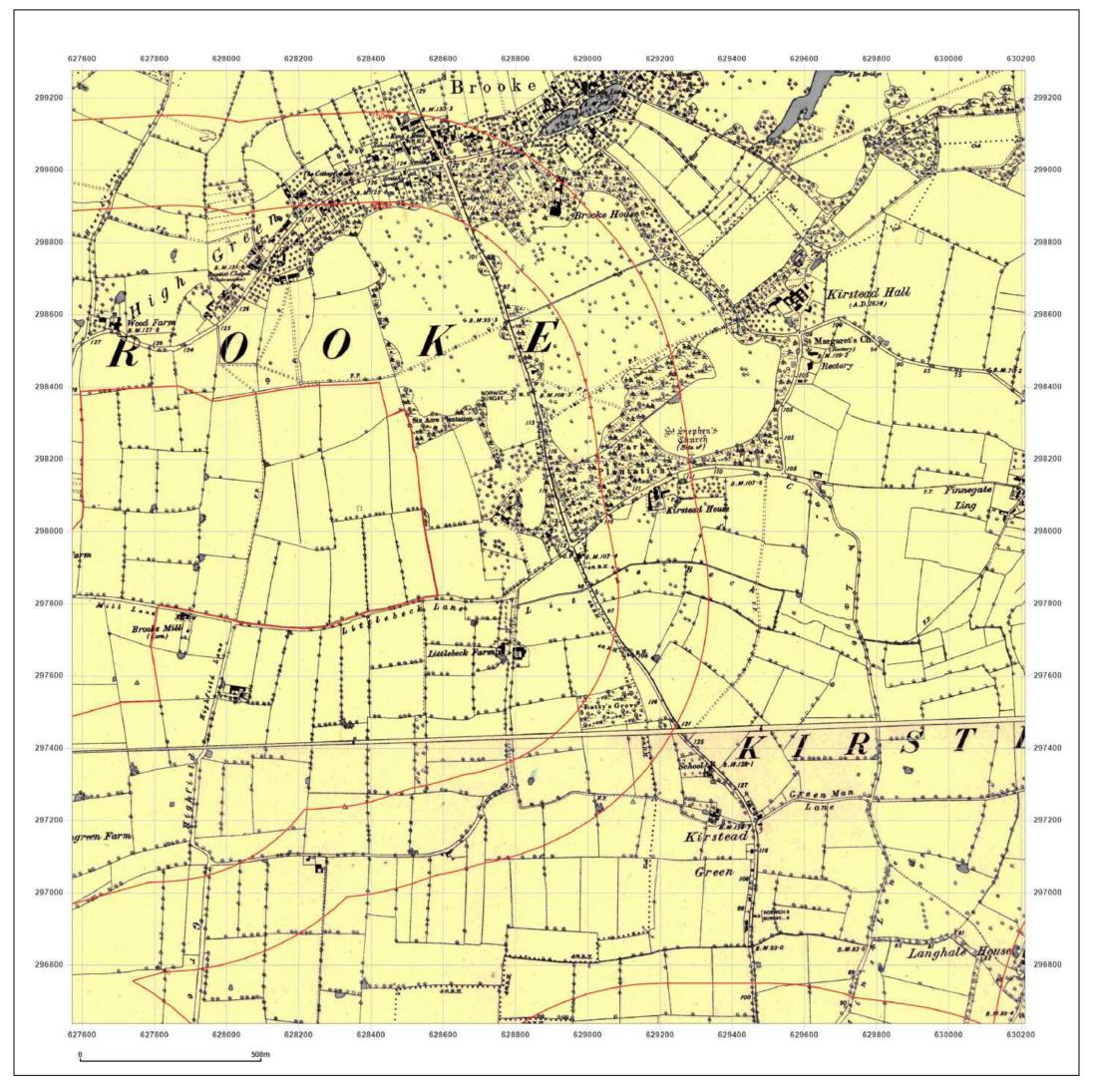
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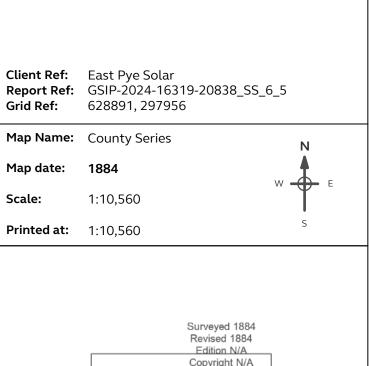


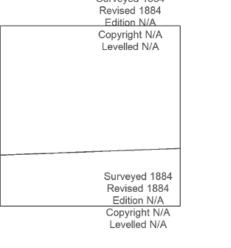
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Site Details:

Long Stratton



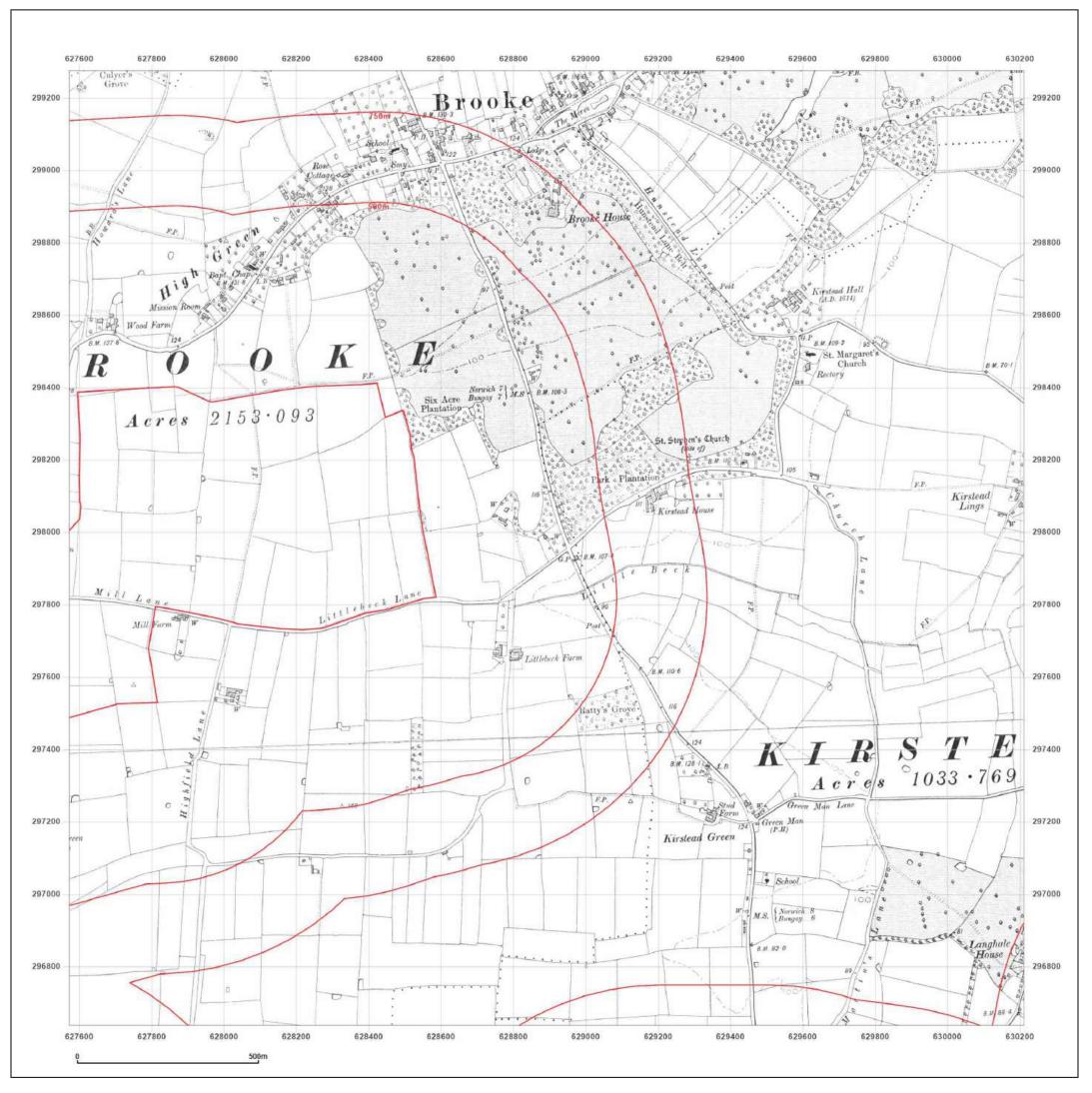




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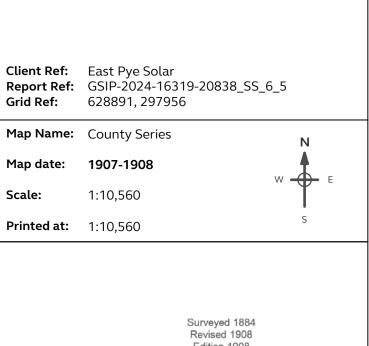


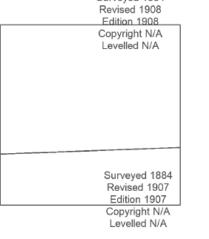
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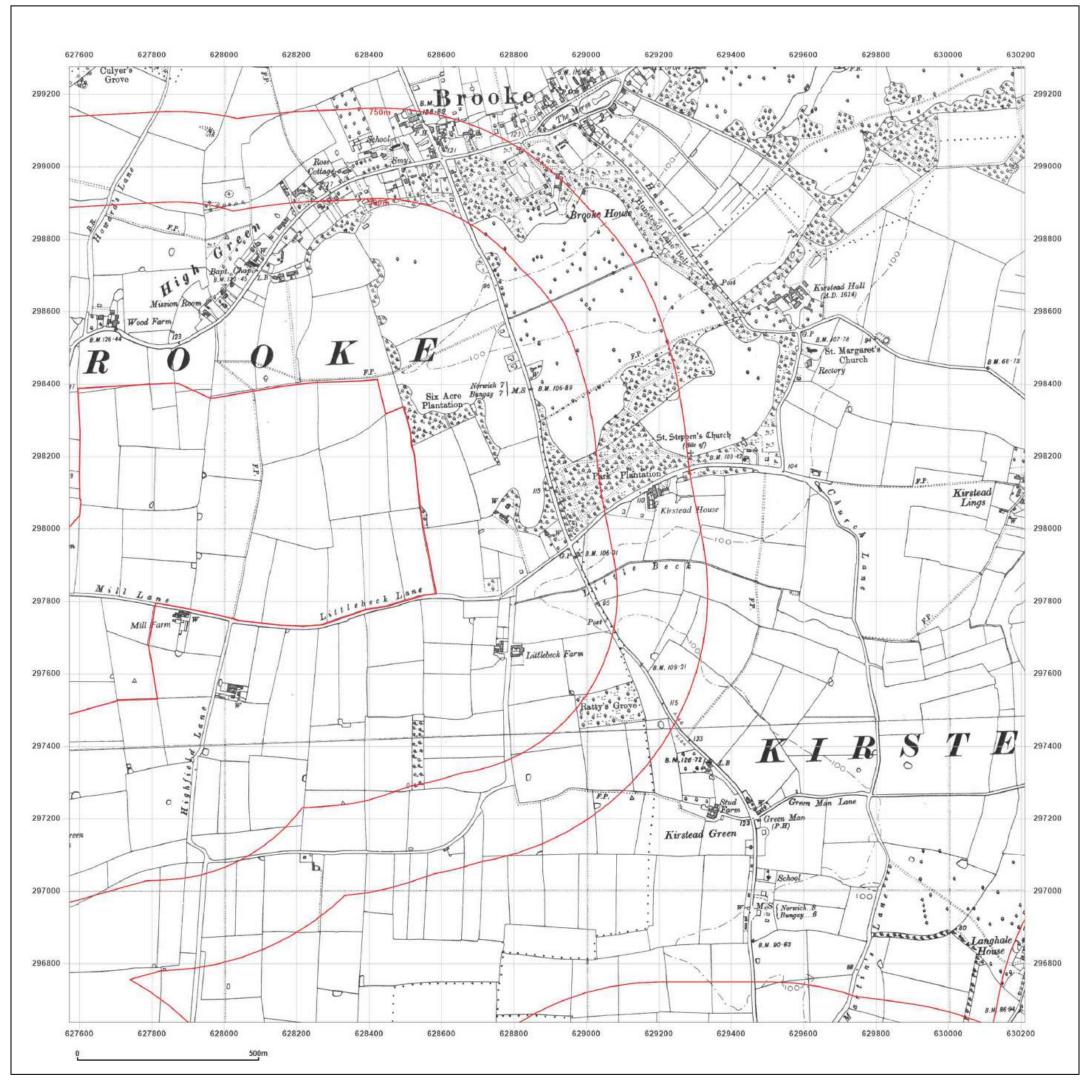




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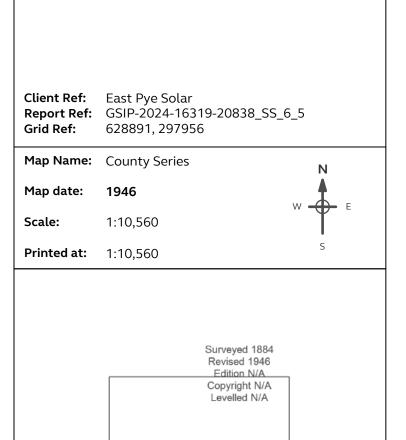


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Site Details:

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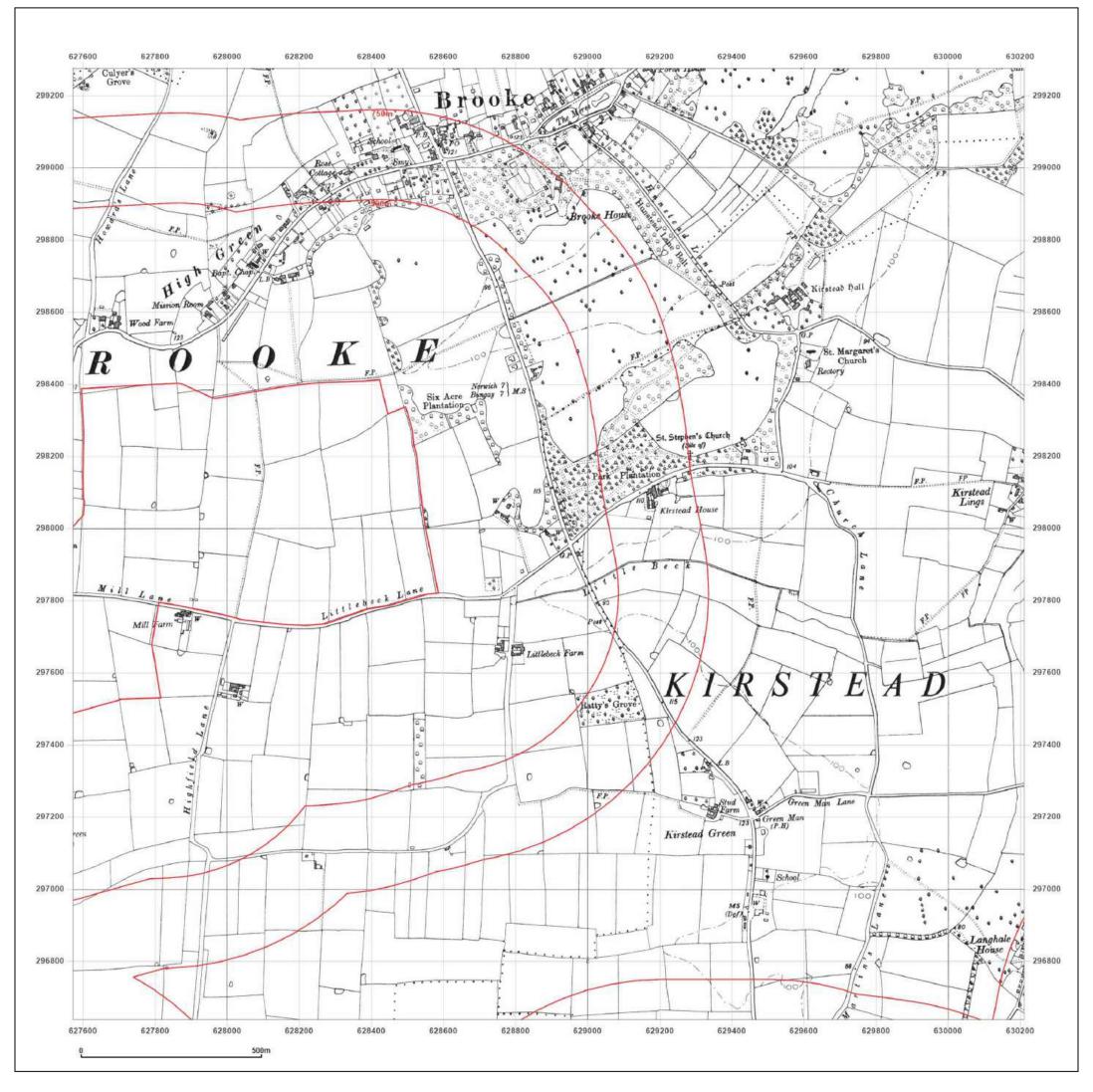
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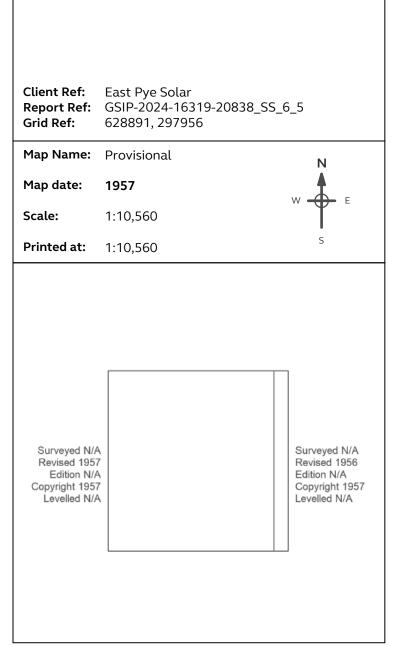
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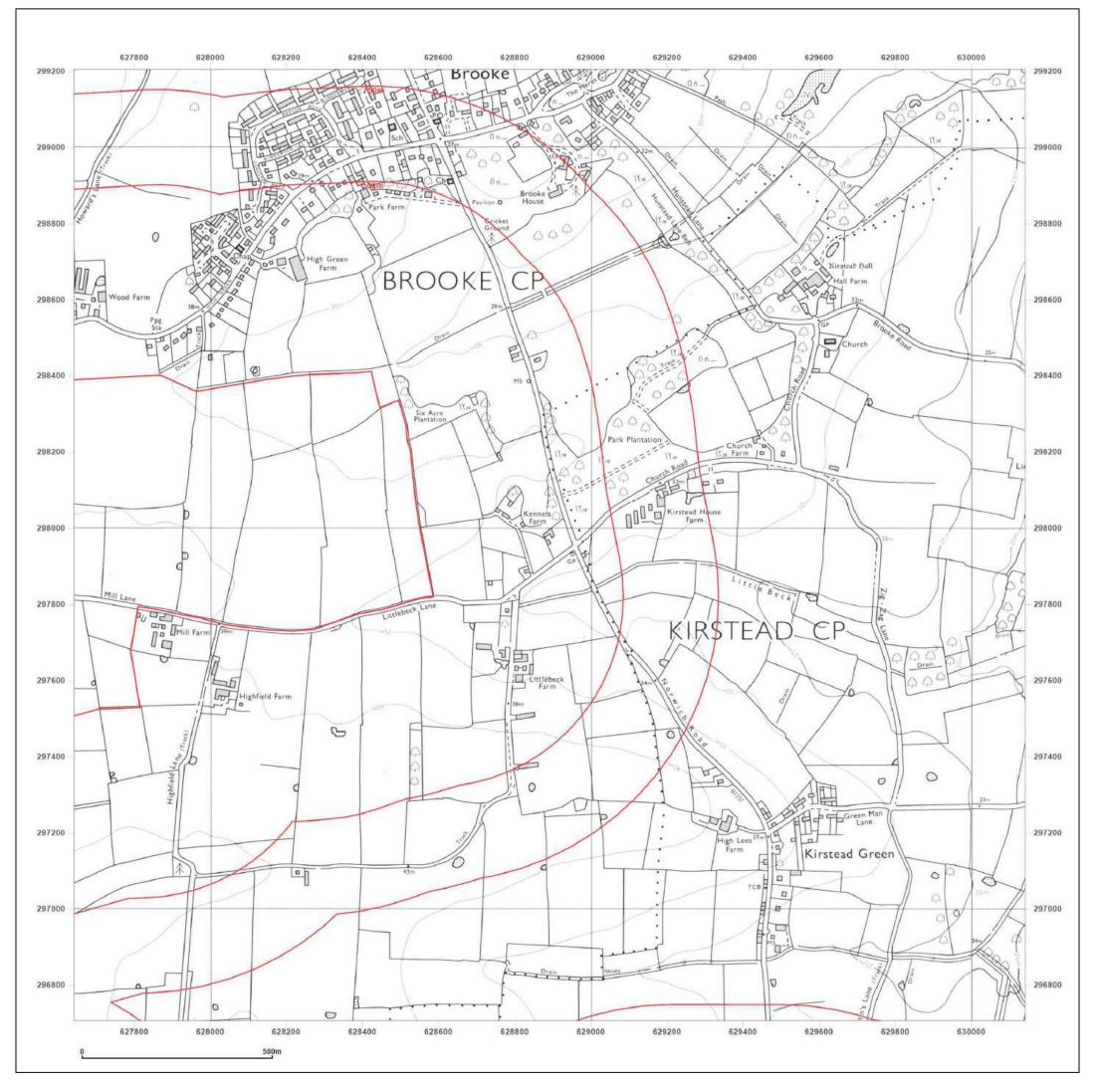




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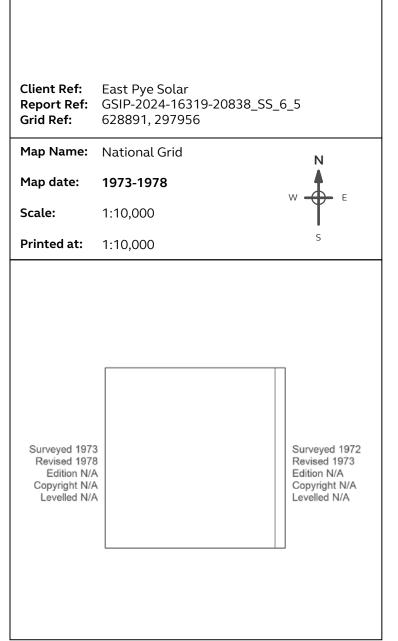
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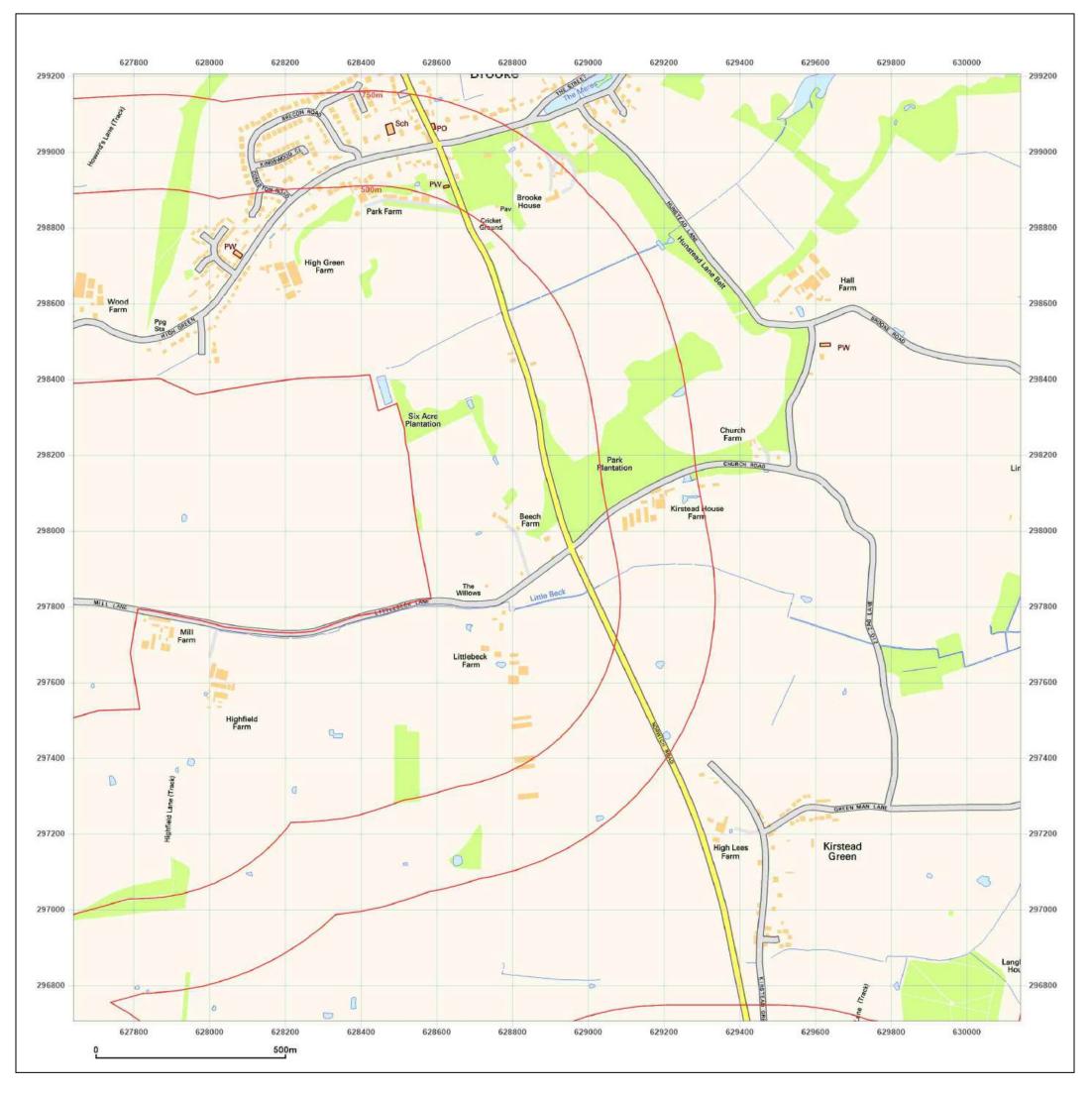




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Site Details:

Long Stratton

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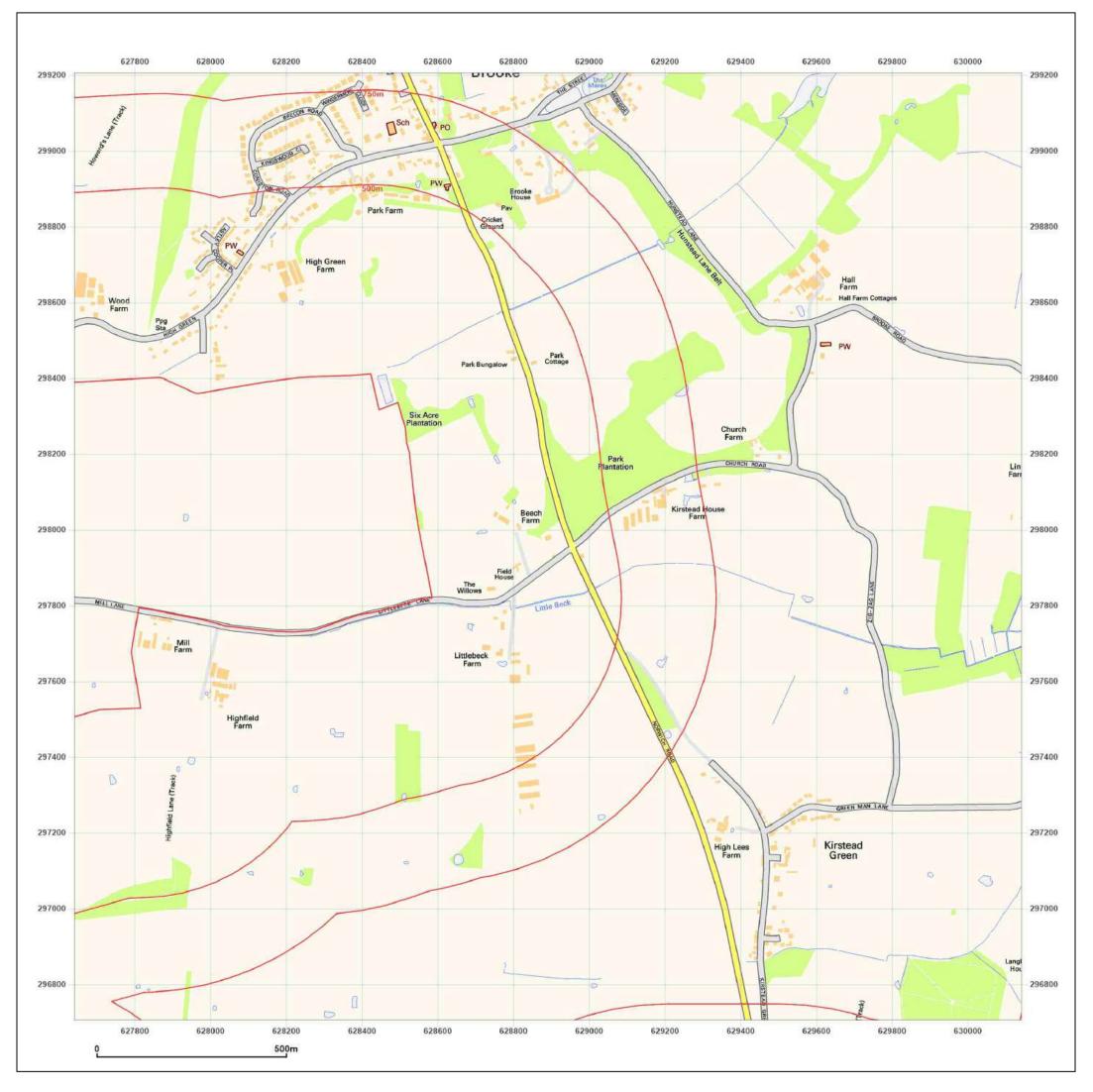
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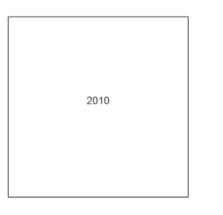
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Site Details:

Long Stratton

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Map Name:	National Grid	Ν
Map date:	2010	
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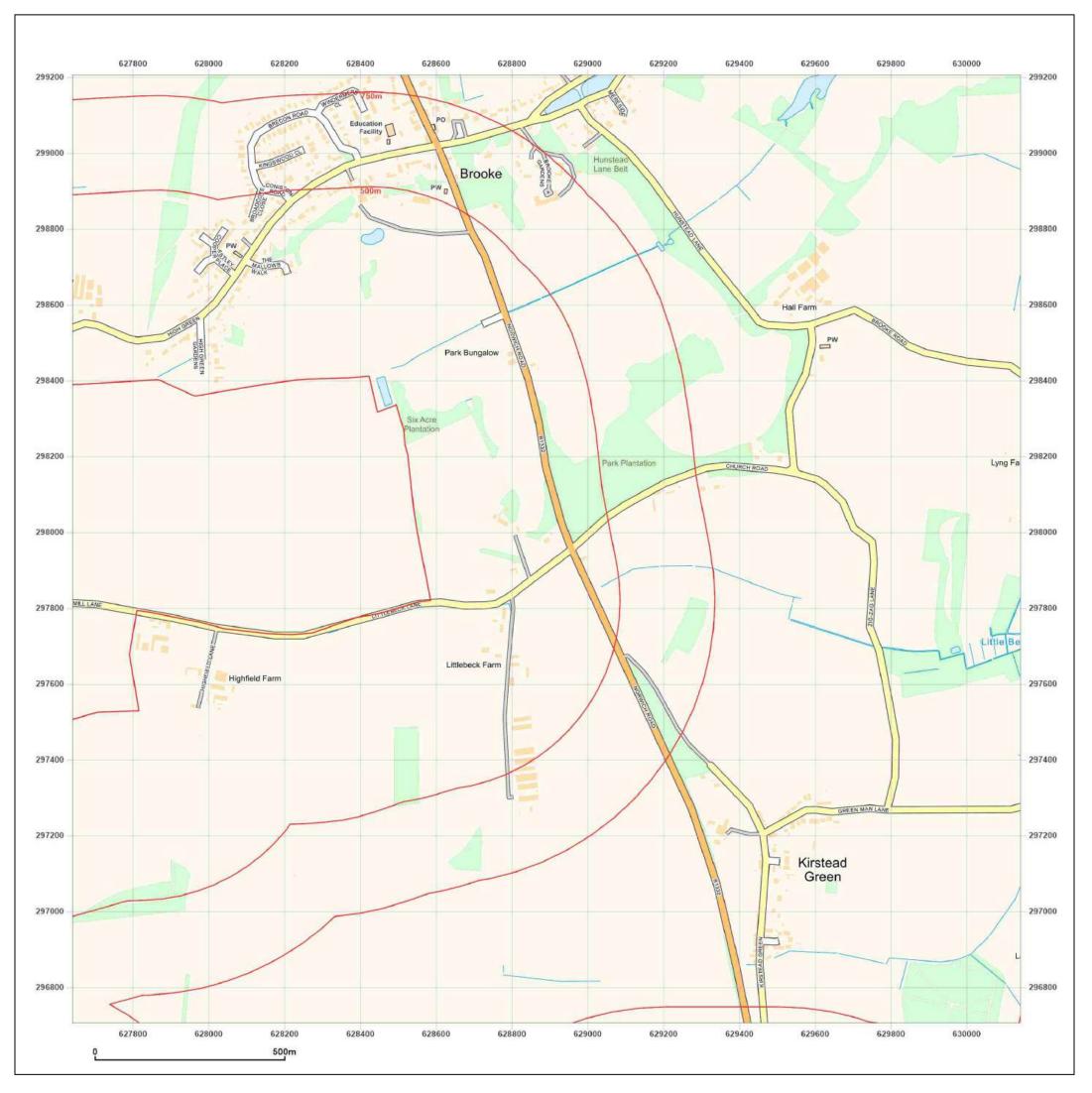




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Site Details:

Long Stratton

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Map Name:	National Grid	Ν
Map date:	2024	
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Printed at:	1:10,000	S

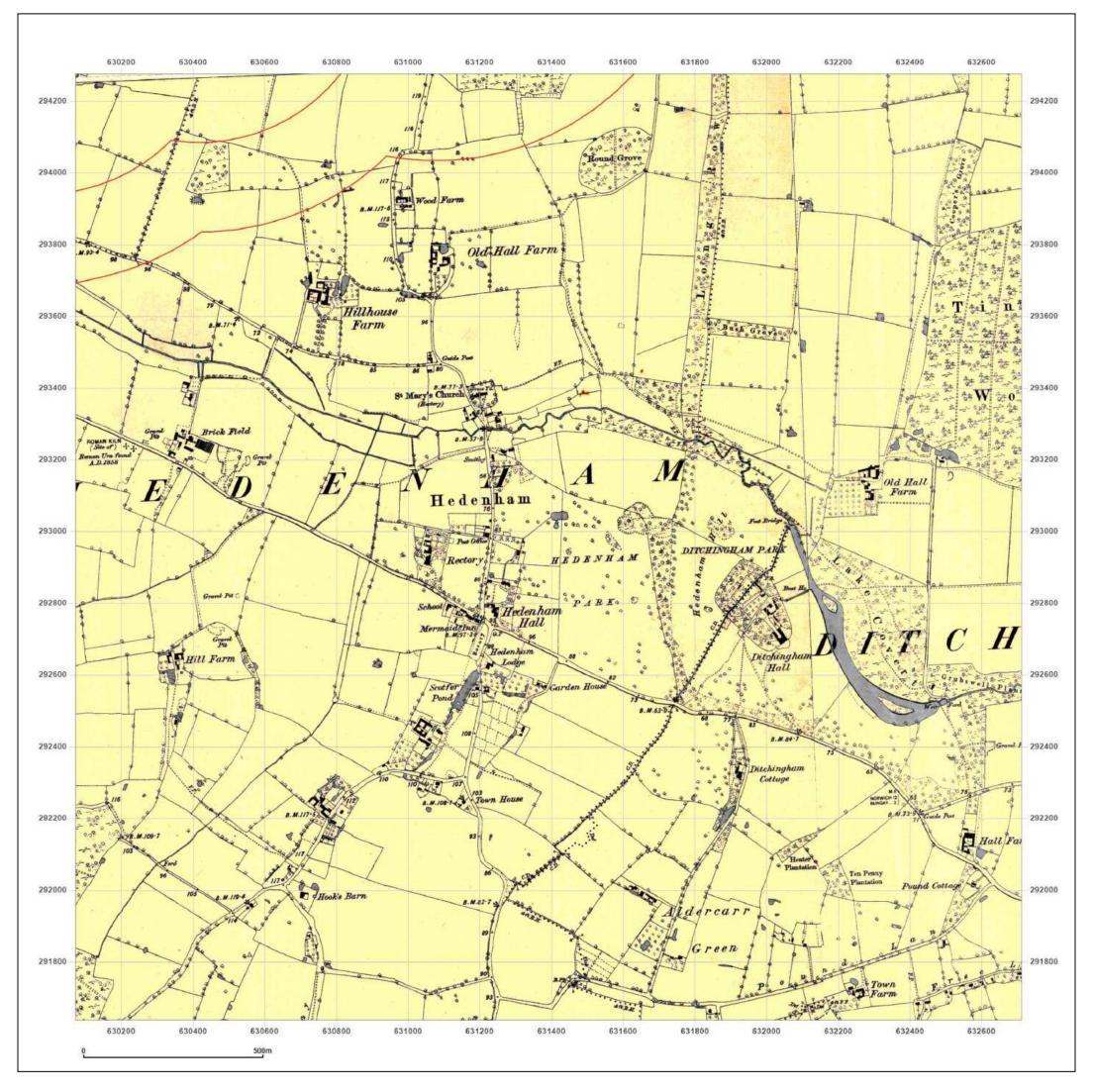
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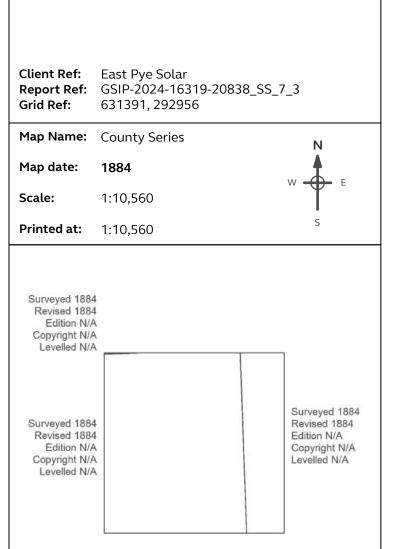
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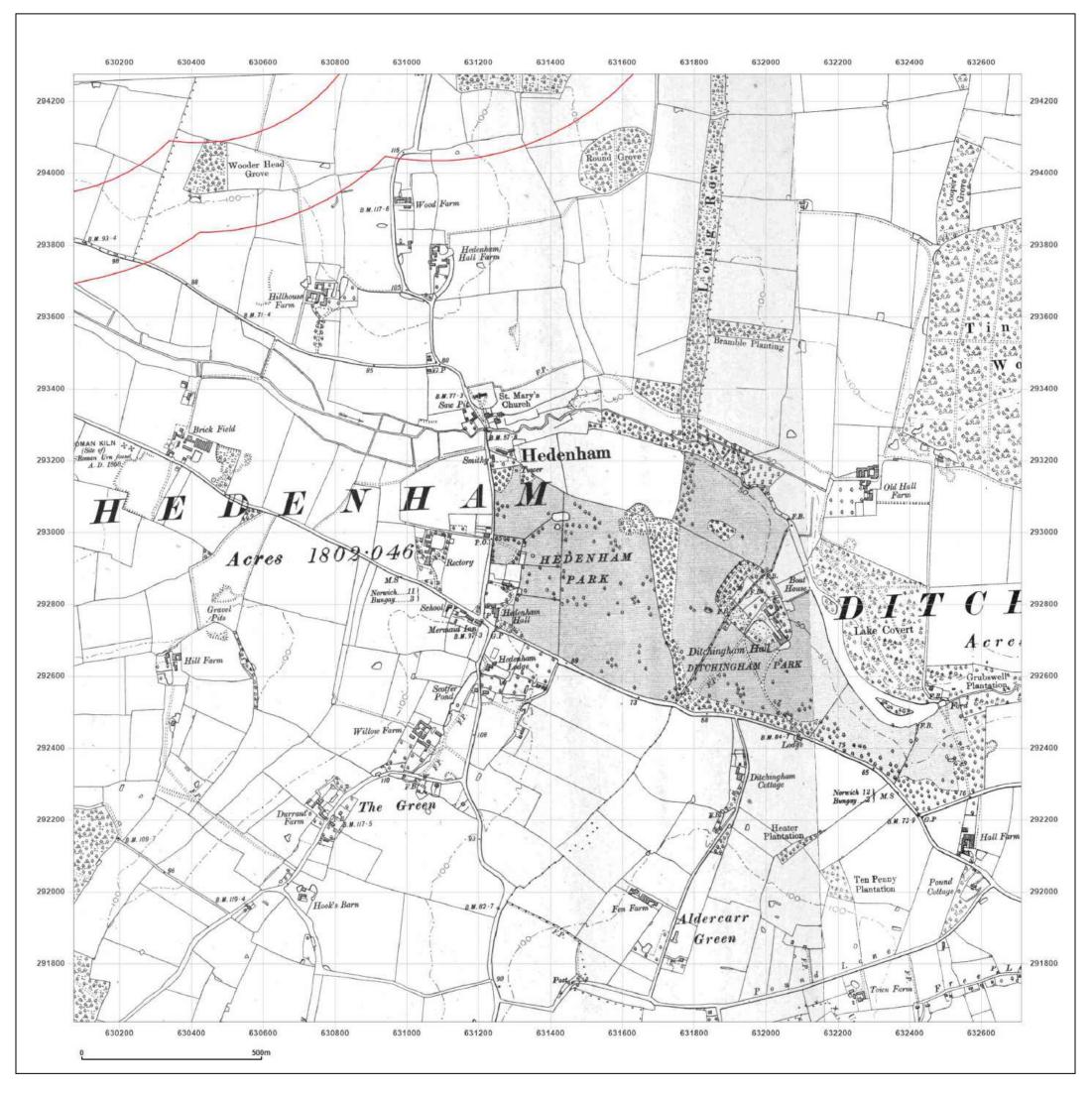


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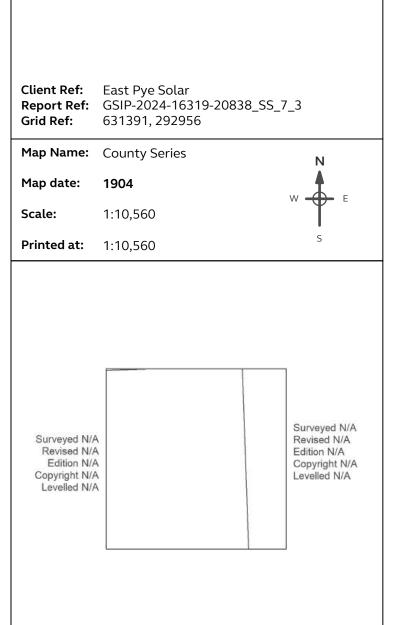


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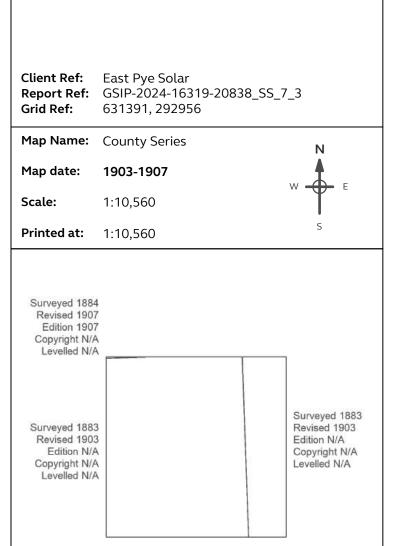
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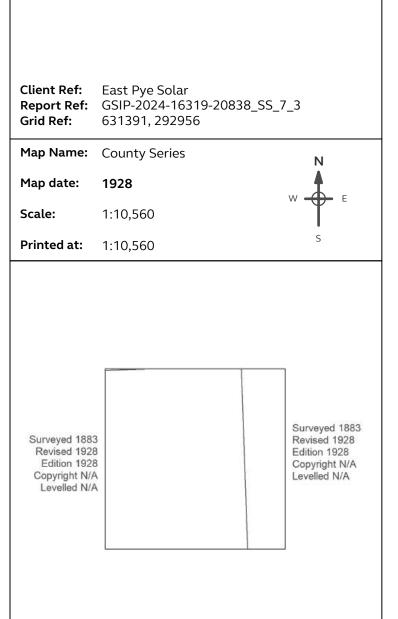


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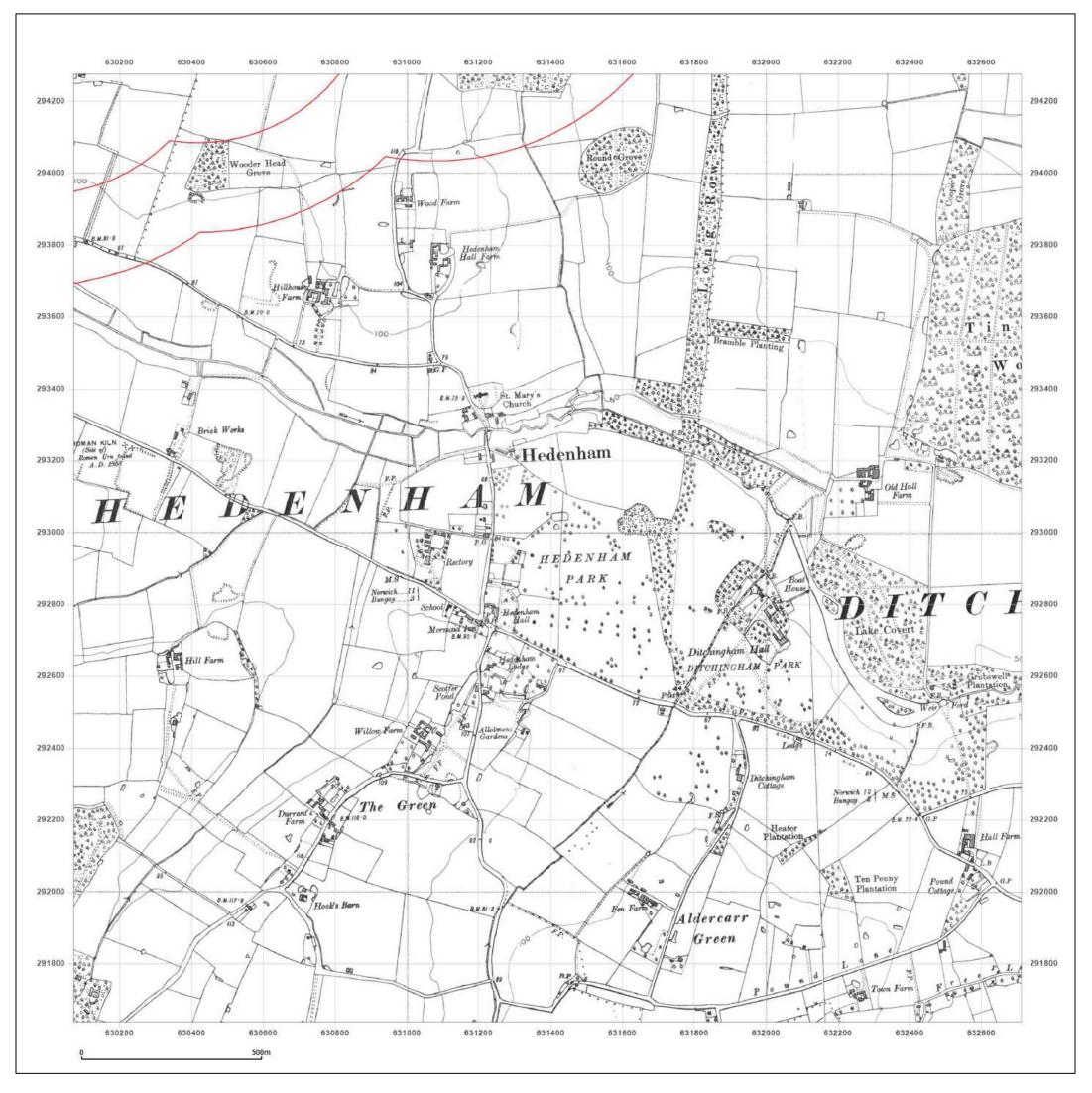




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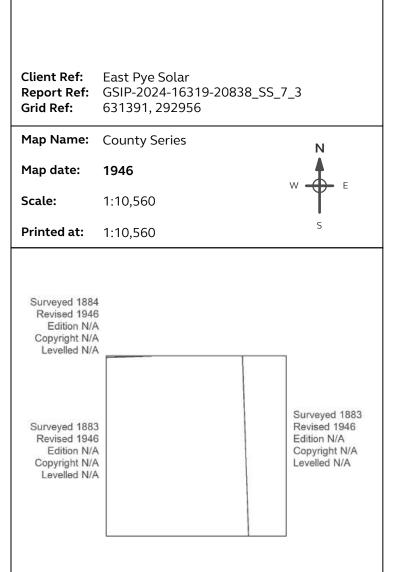
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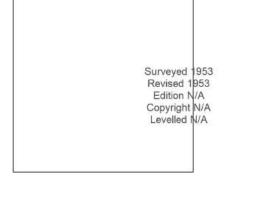




Site Details:

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Map date:	1953 w
Scale:	1:10,560
Printed at:	1:10,560 <sup>s</sup>

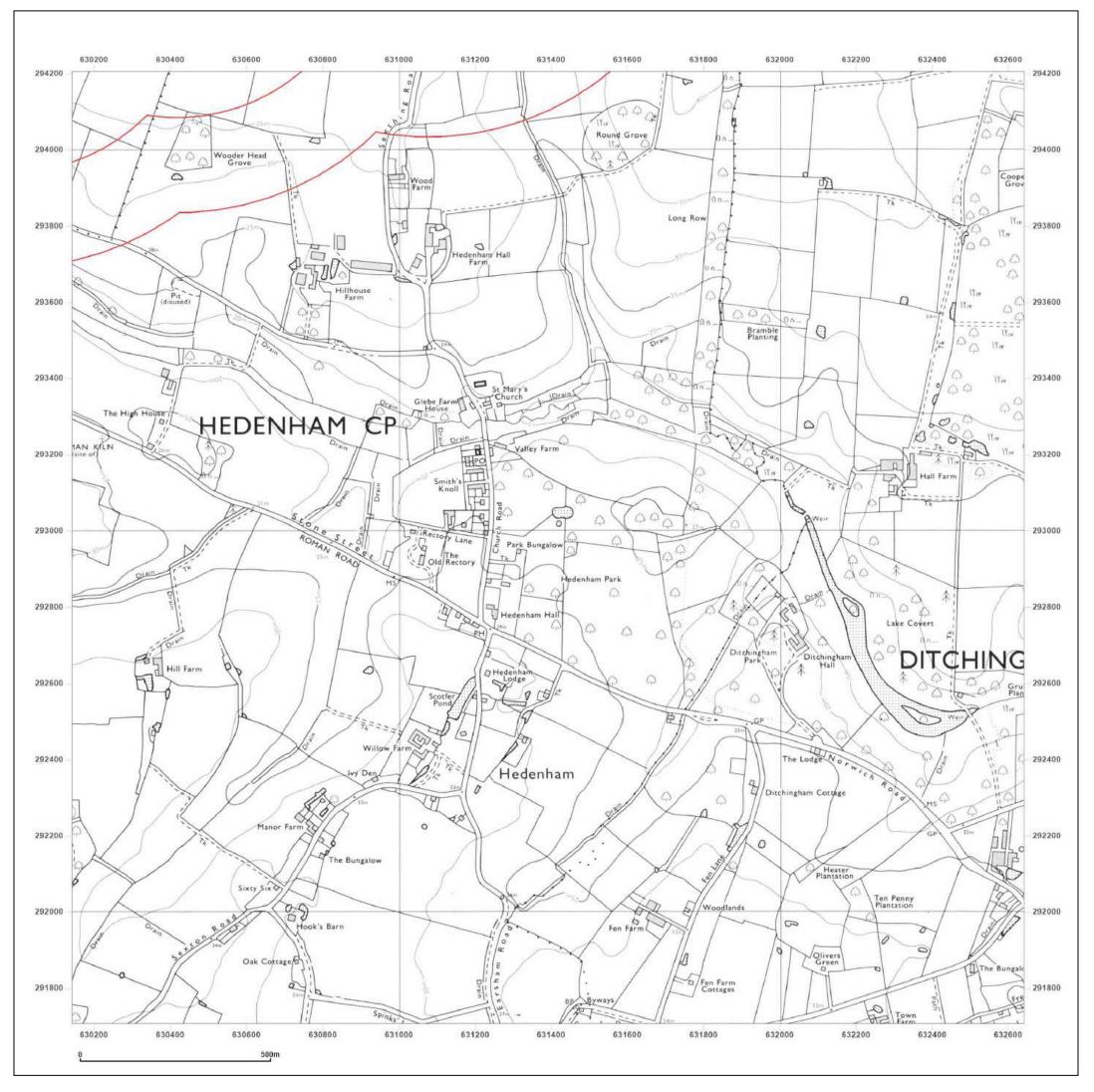




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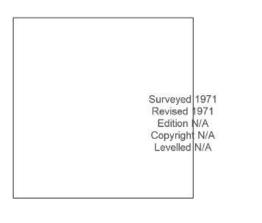




Site Details:

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Map date:	1971	
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Printed at:	1:10,000	S



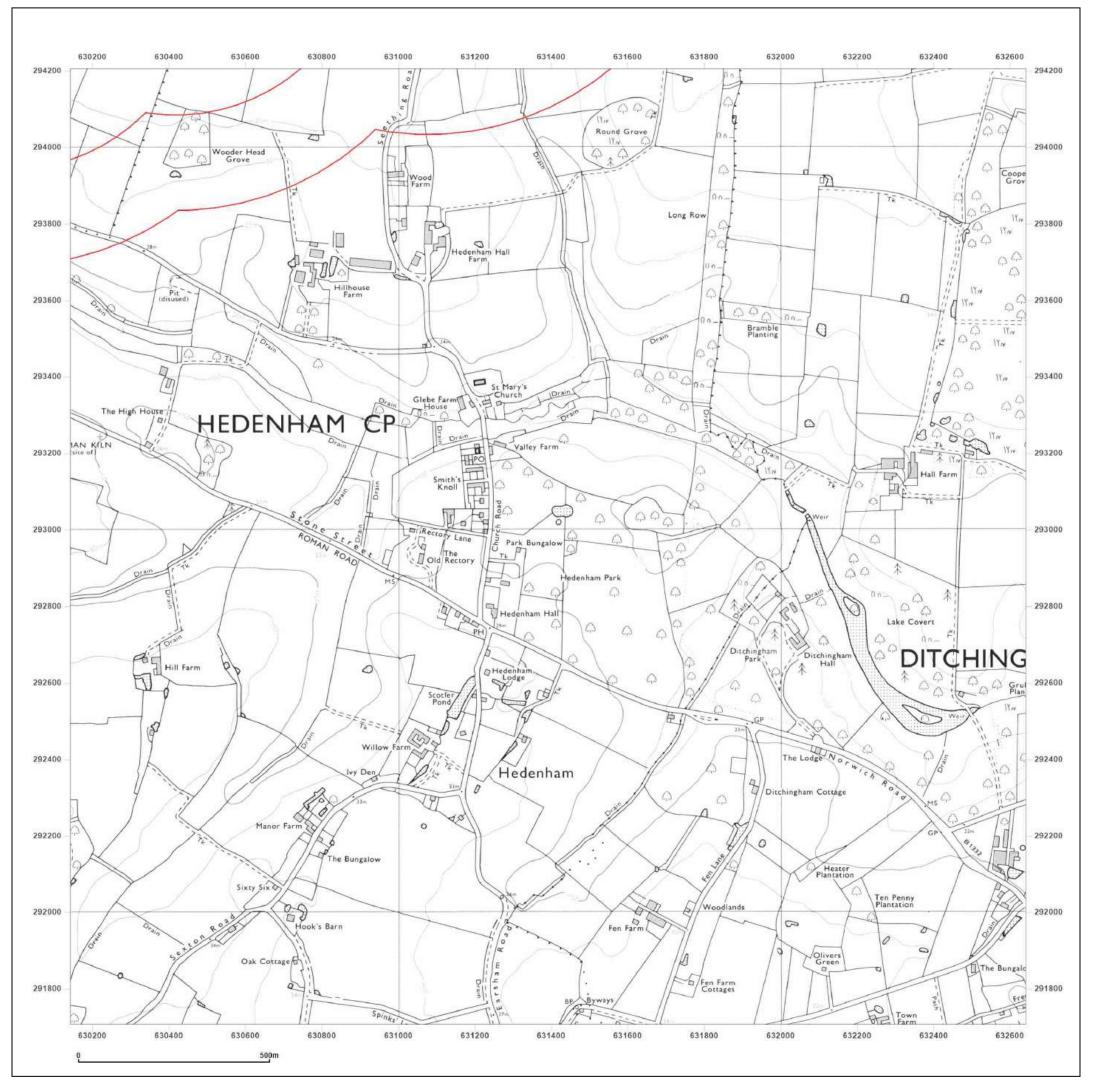


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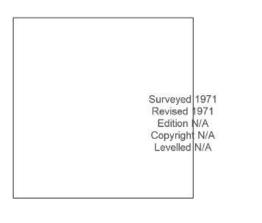




Site Details:

Long Stratton

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Map Name:	National Grid	N
Map date:	1971	
Scale:	1:10,000	T -
Printed at:	1:10,000	S

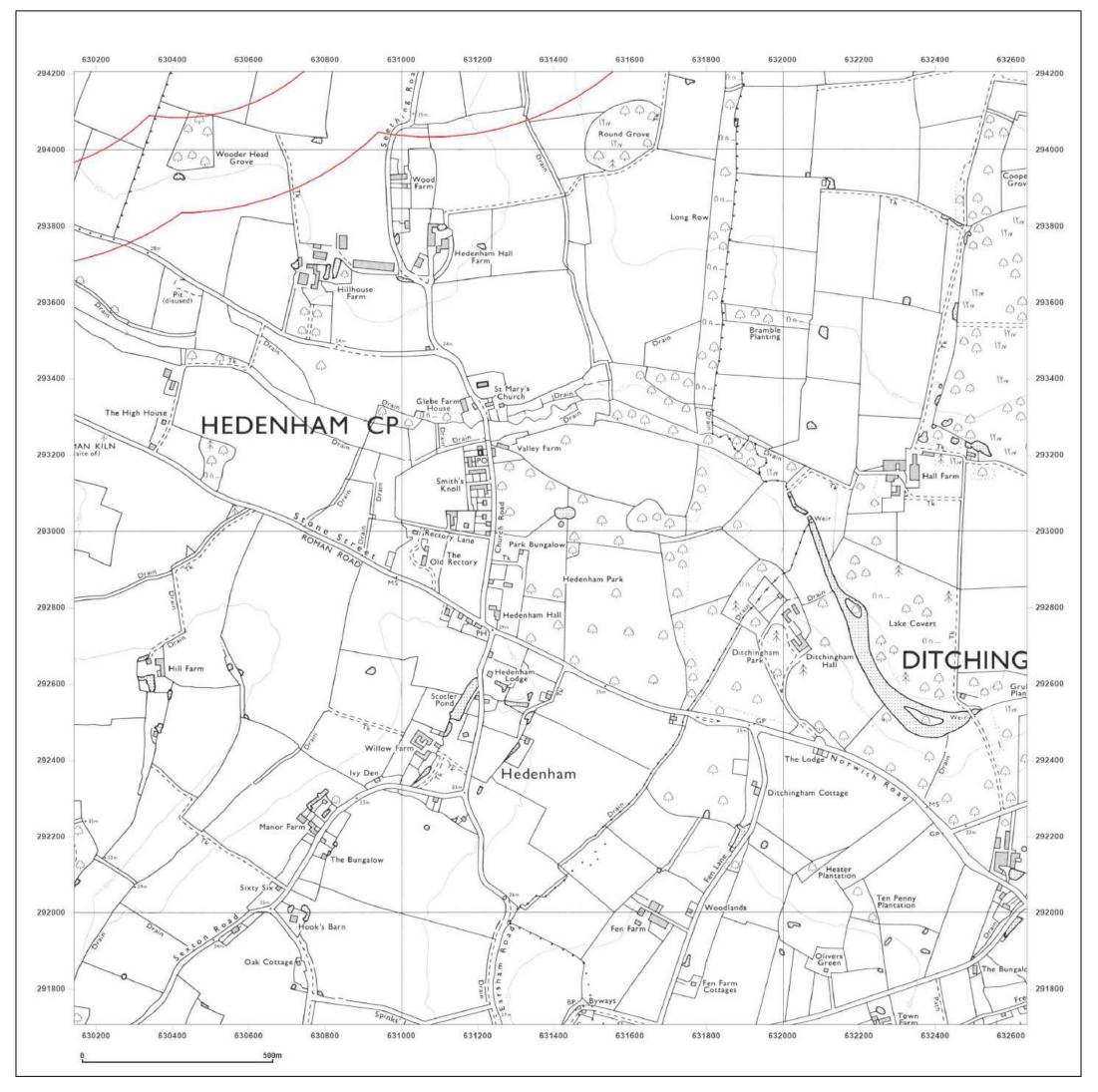




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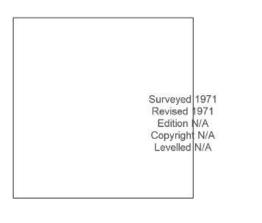




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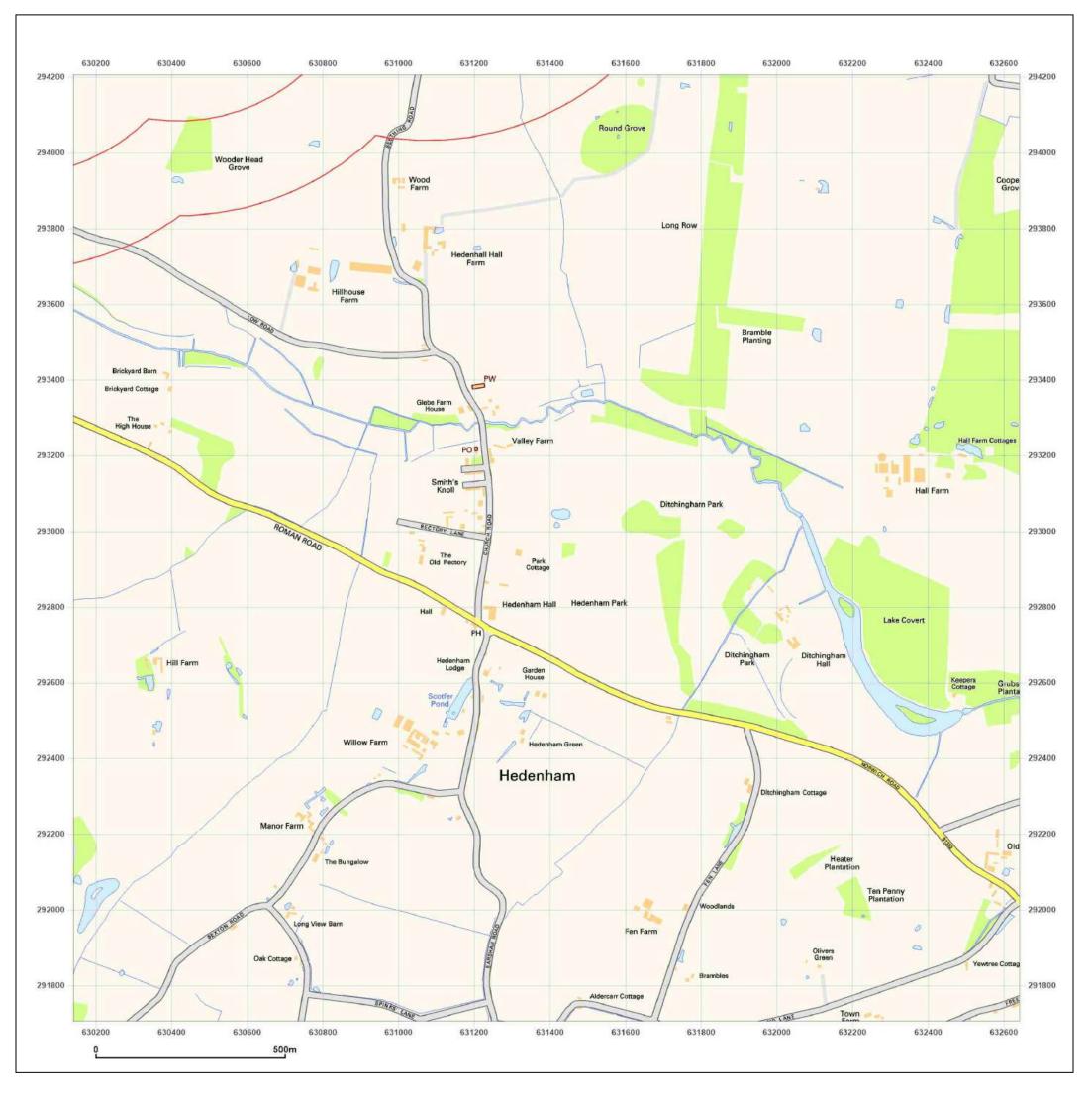




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Site Details:

Long Stratton

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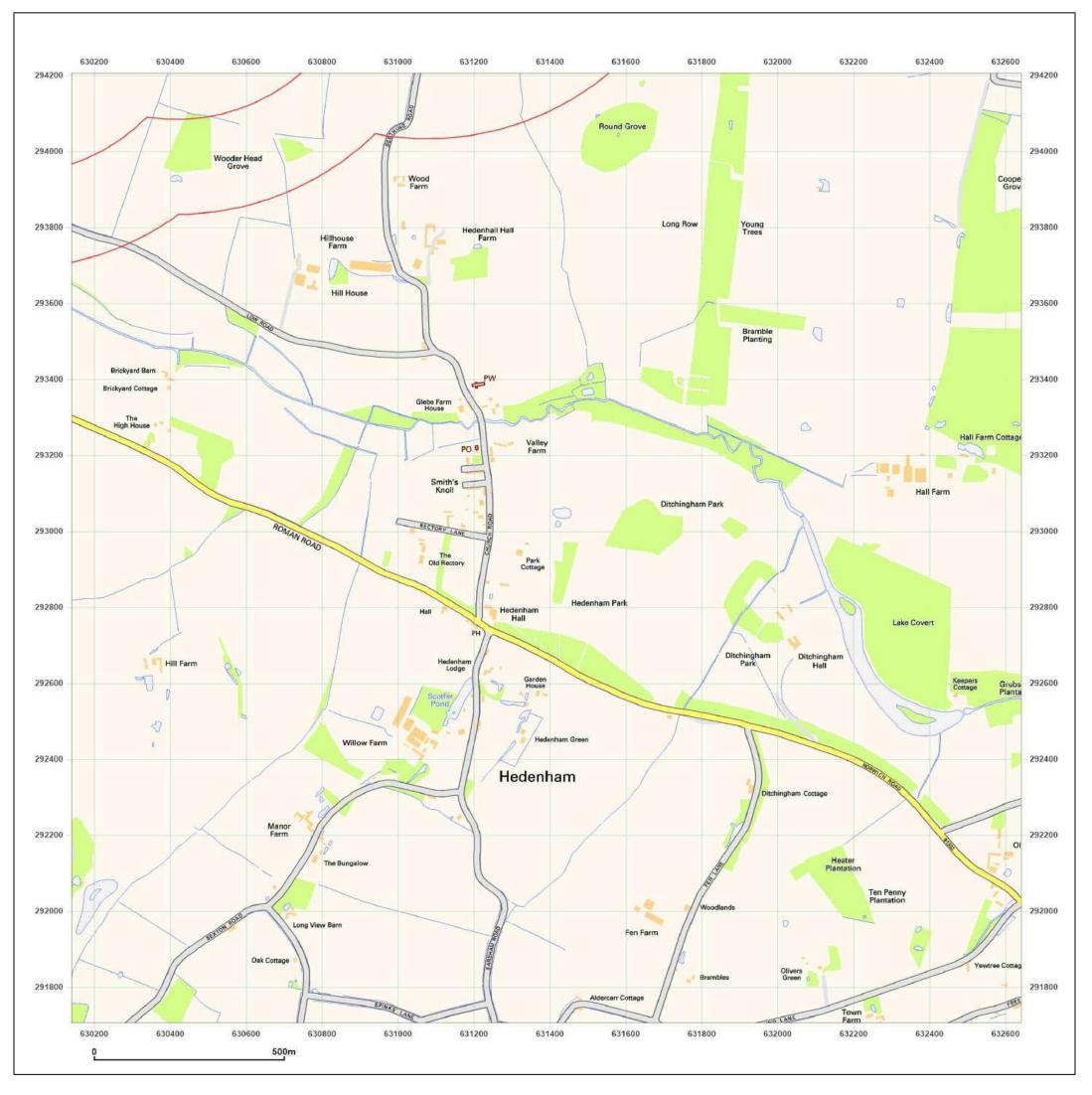


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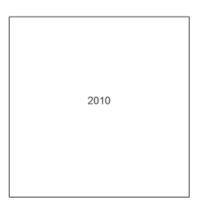




Site Details:

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Map Name:	National Grid	Ν
Map date:	2010	W F
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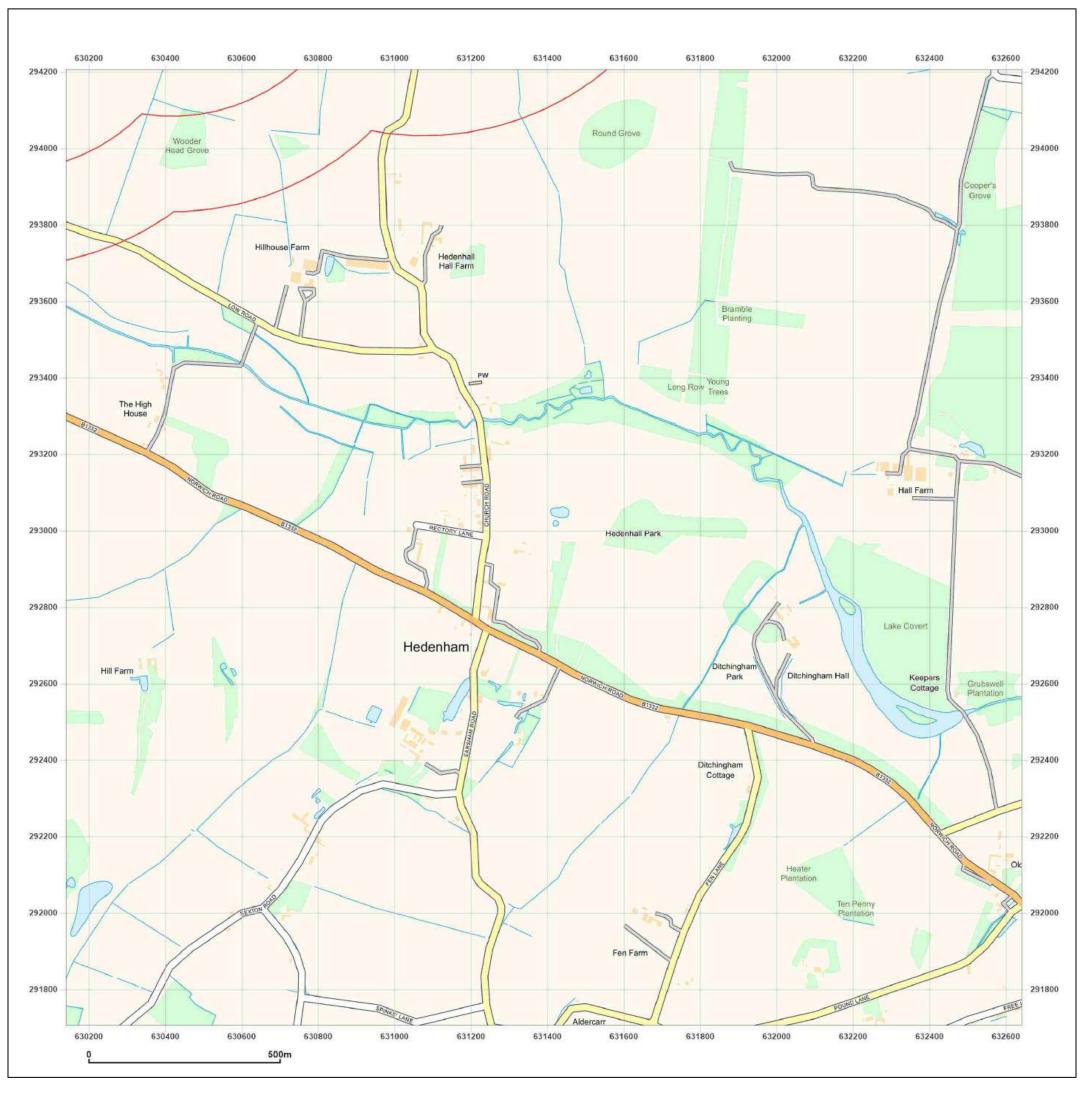


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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_7 631391, 292956	_3
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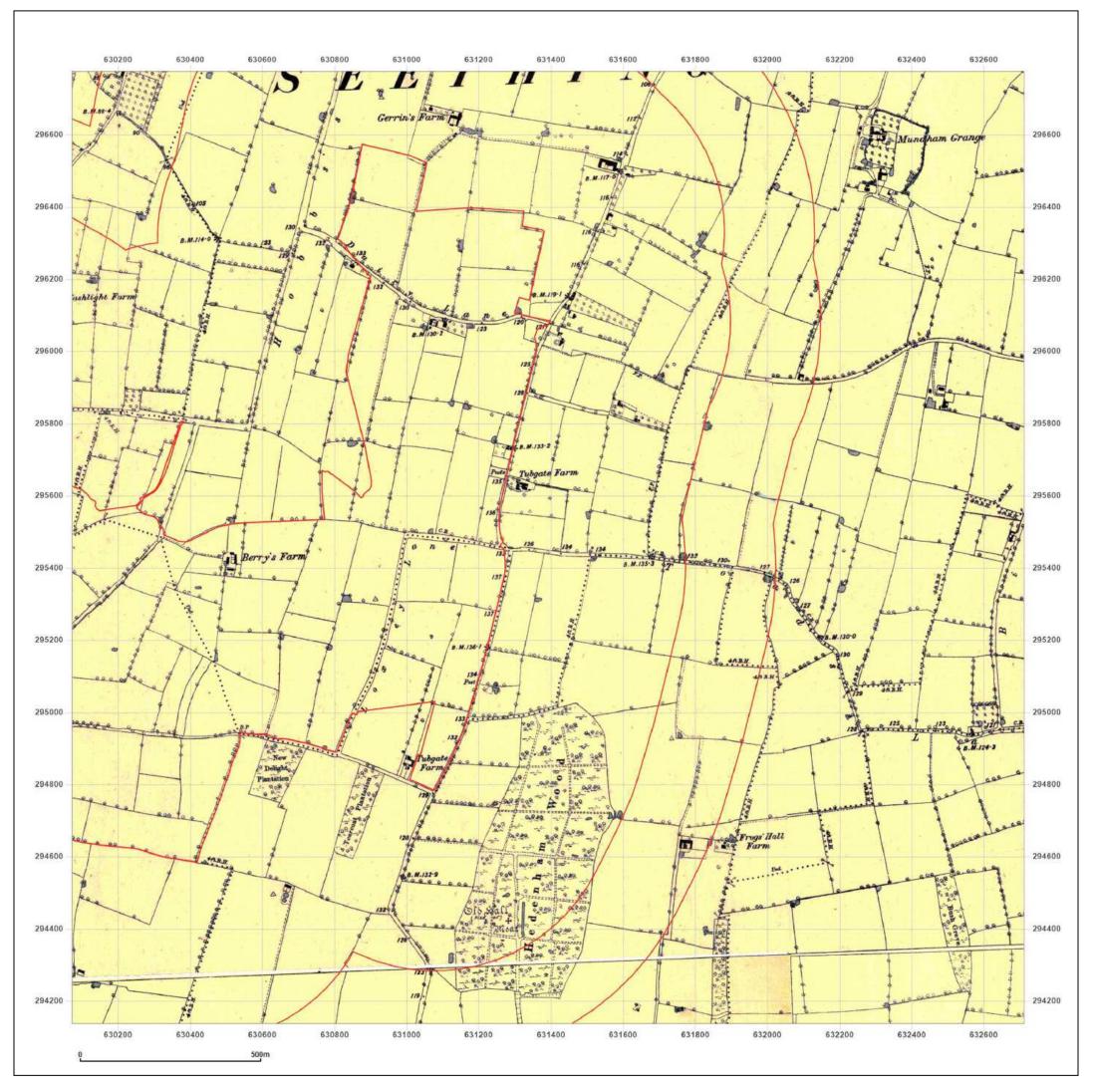
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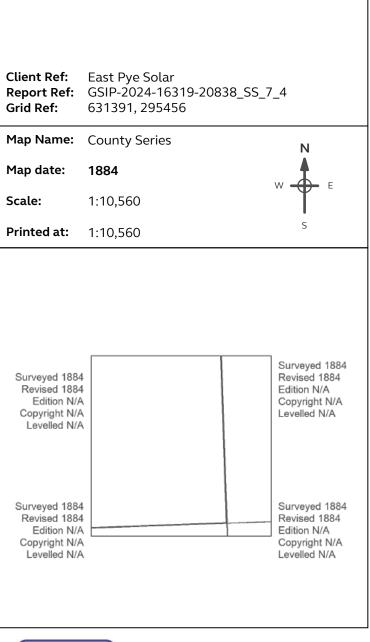


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Site Details:

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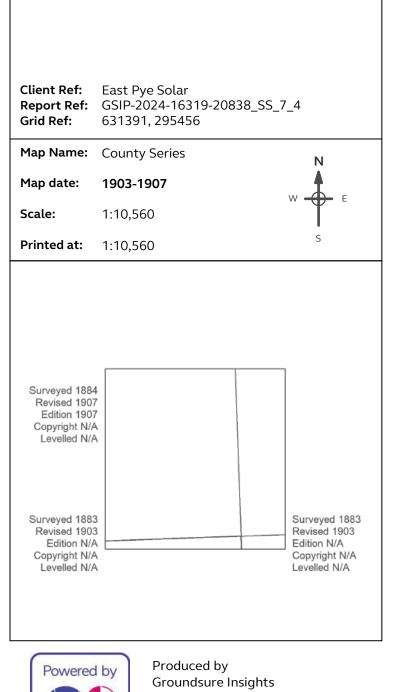
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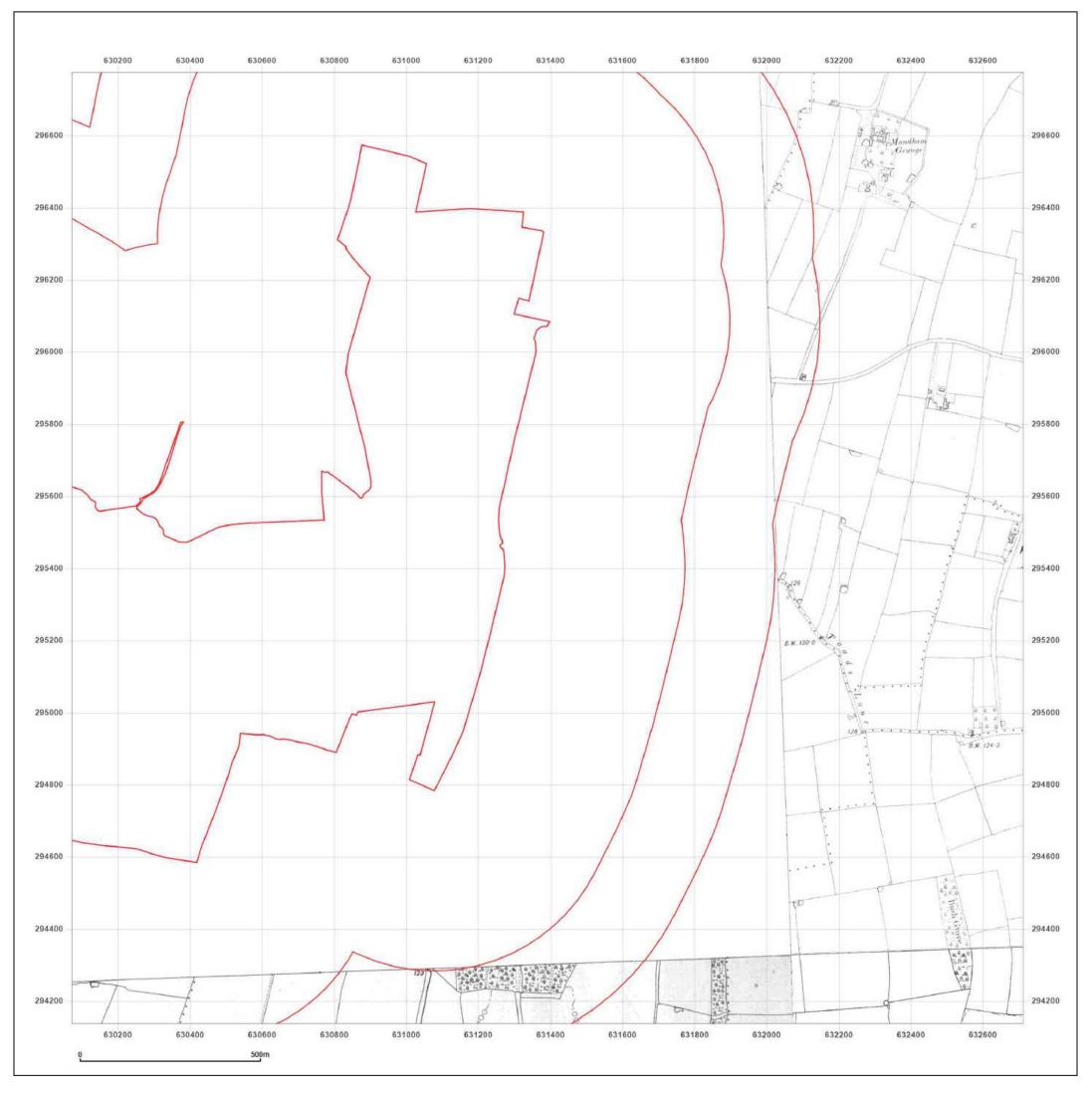
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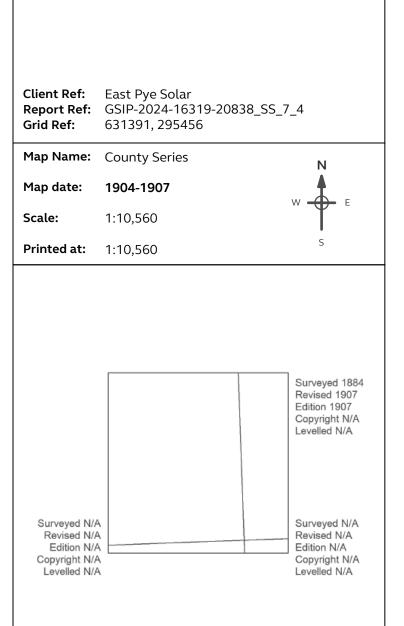


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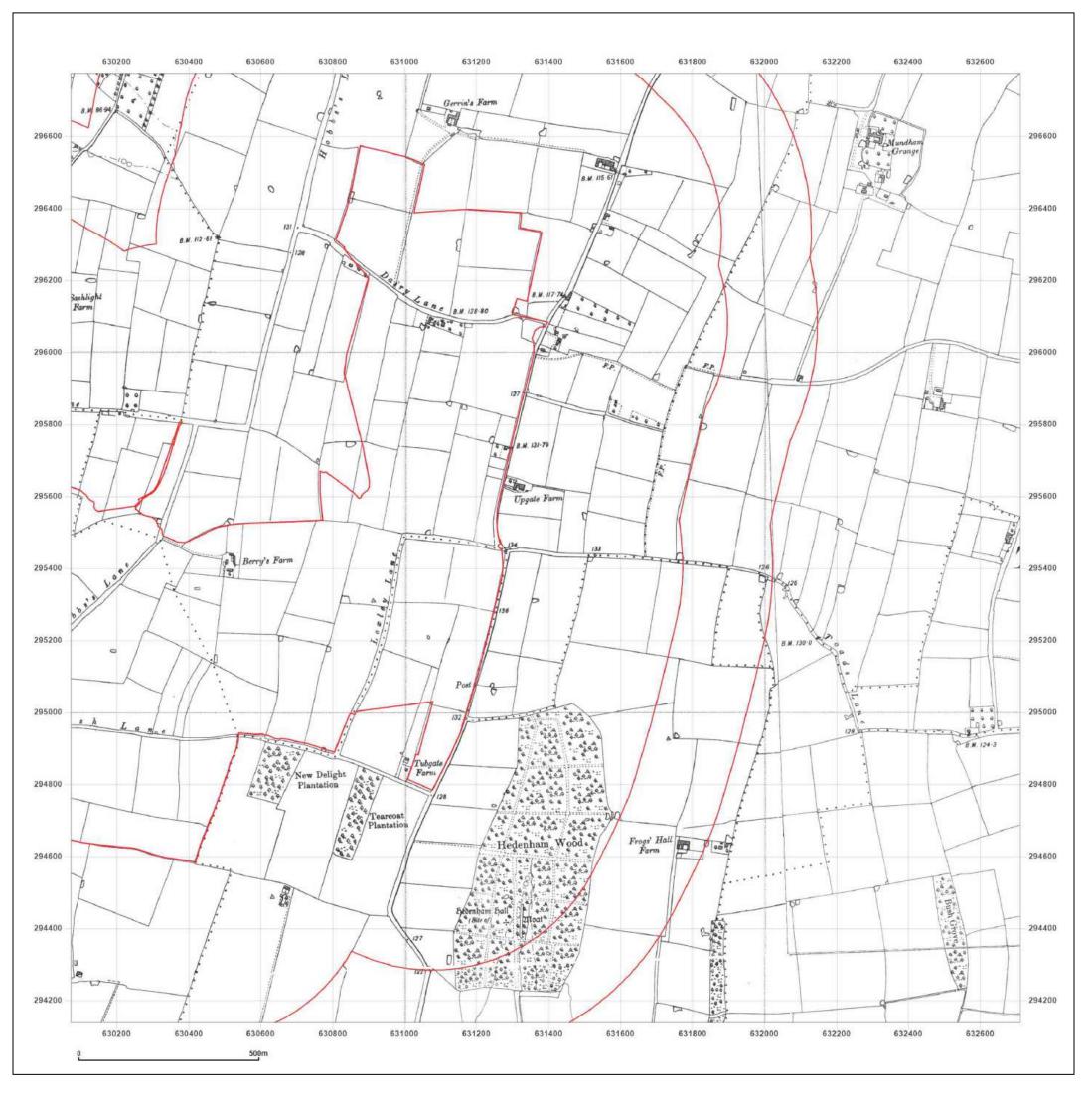
Long Stratton





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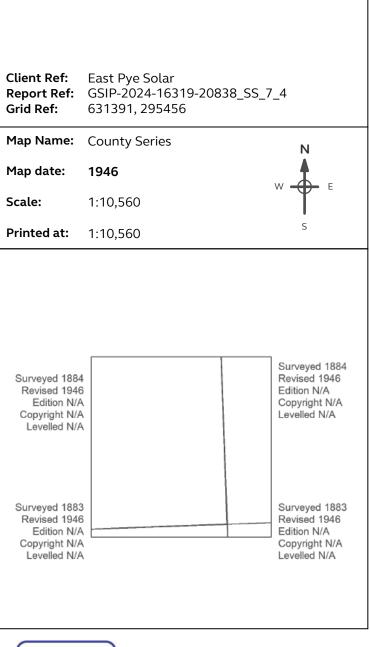
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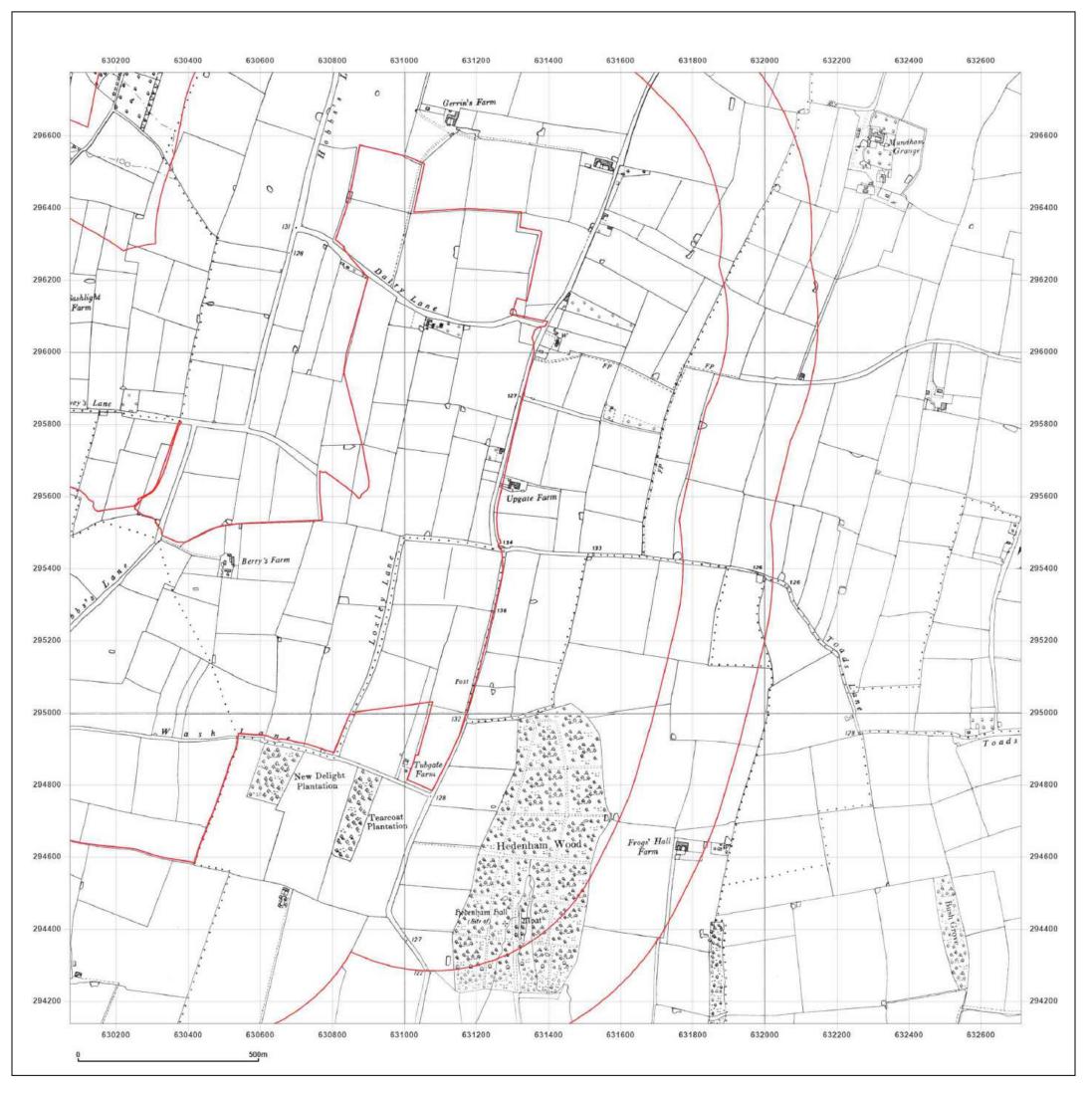
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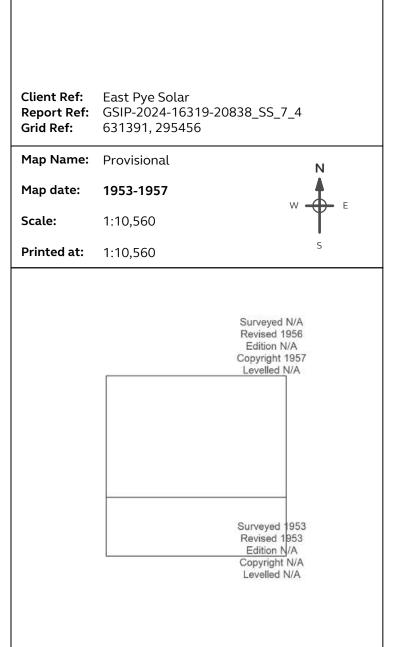


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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	
Map Name:	National Grid N
Map date:	1971 w
Scale:	1:10,000
Printed at:	1:10,000 <sup>s</sup>

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Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	
Map Name:	National Grid N
Map date:	1971 w
Scale:	1:10,000
Printed at:	1:10,000 <sup>s</sup>

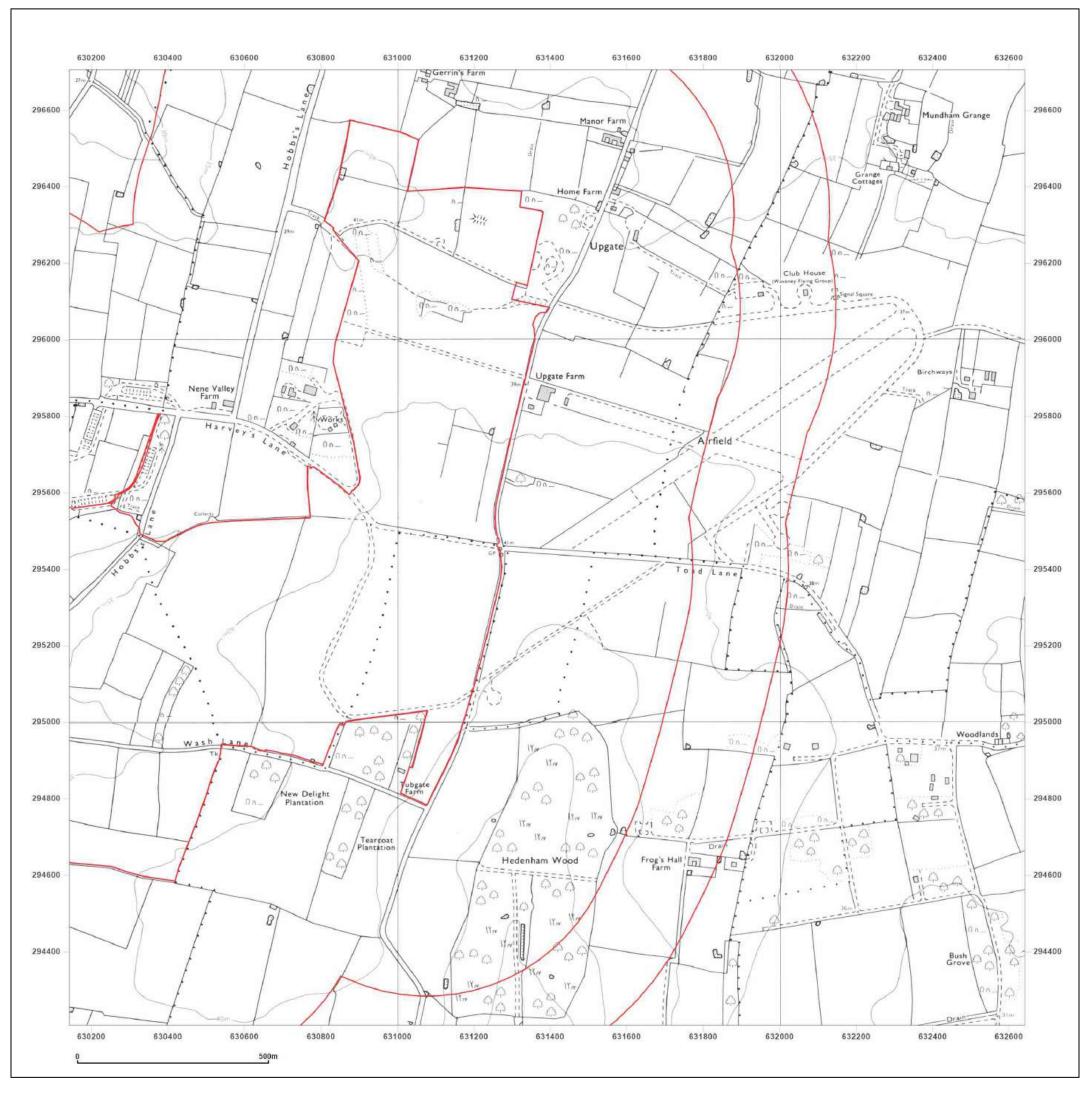
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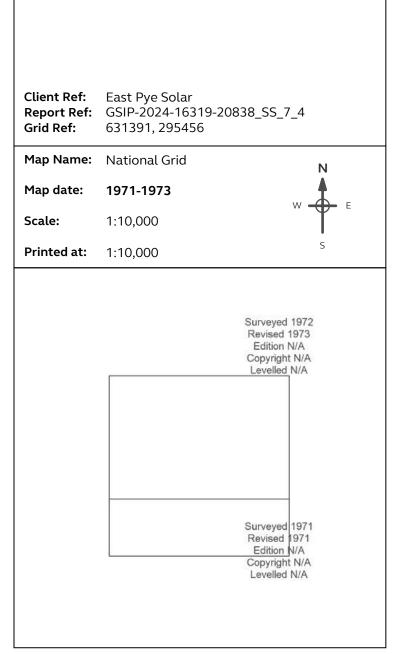


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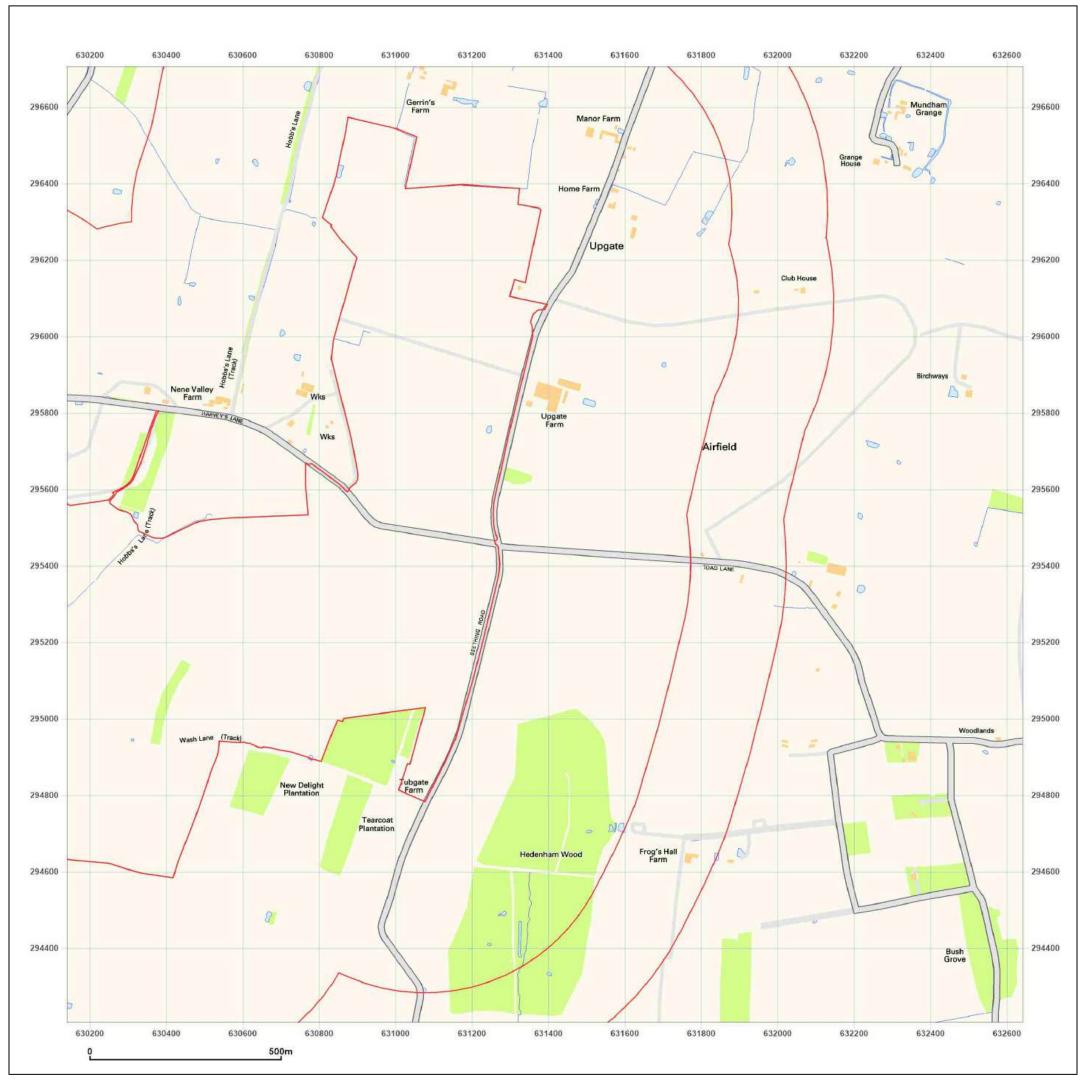




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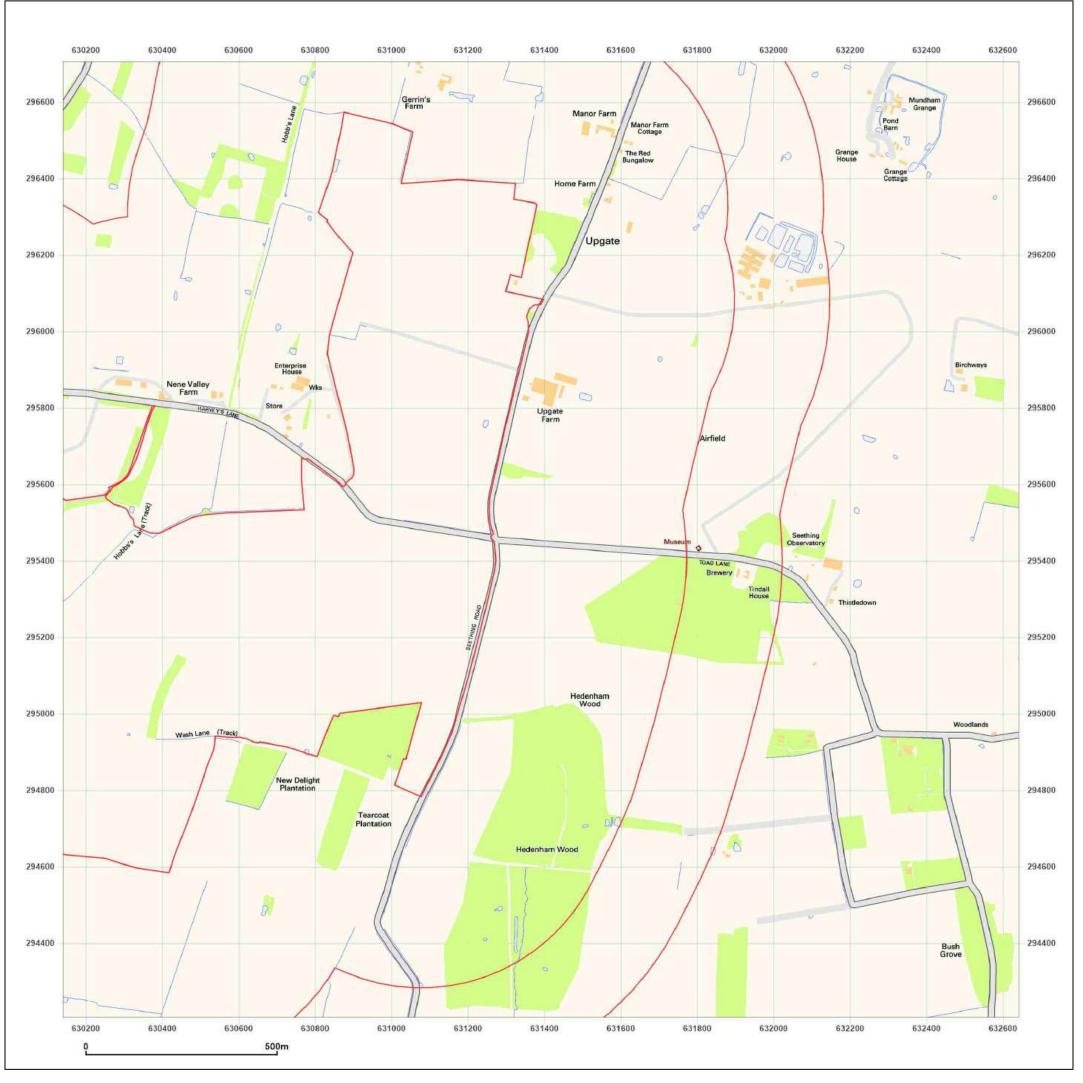
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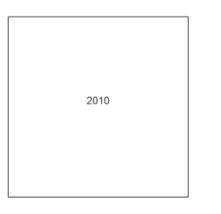
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Site Details:

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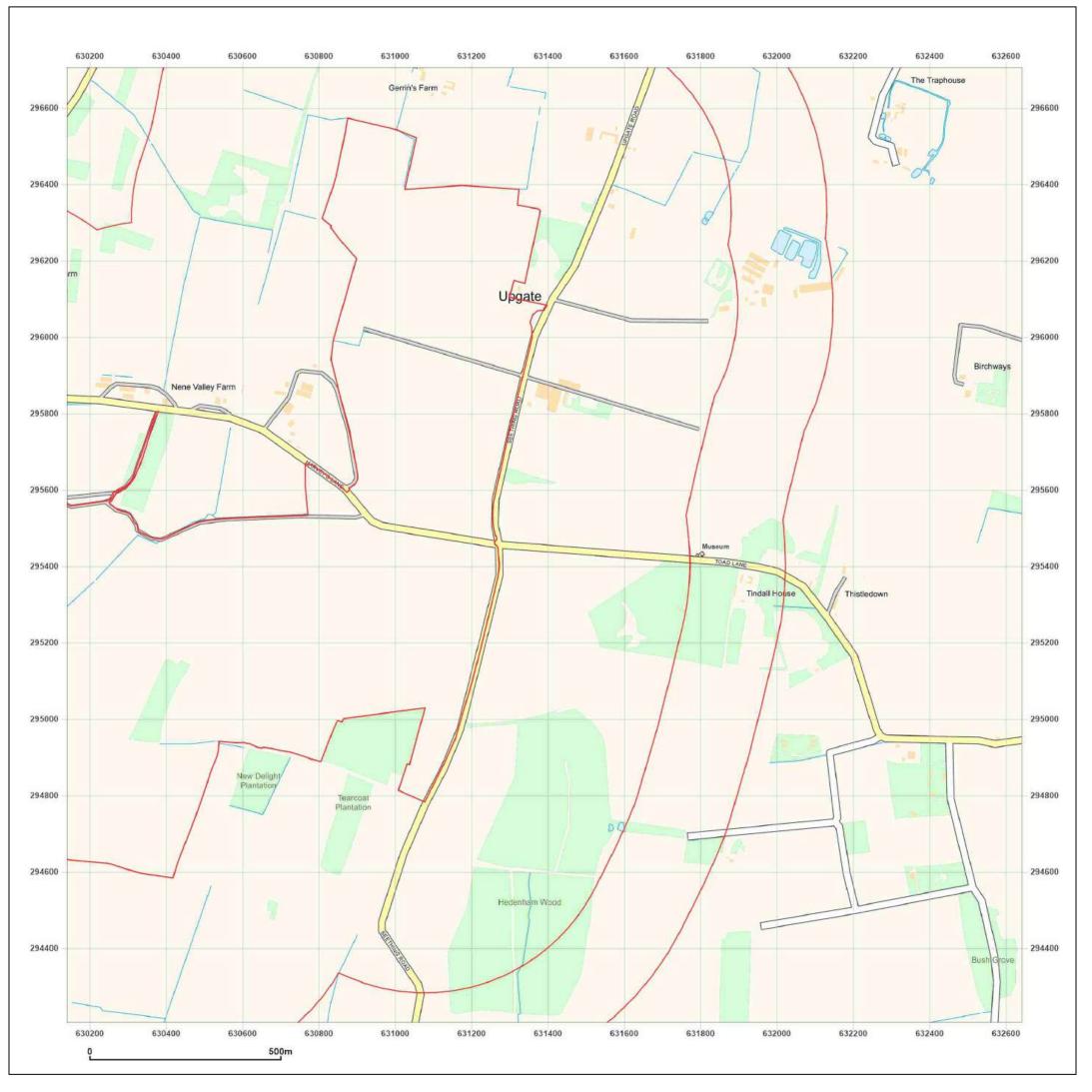




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Production date: 22 August 2024





Site Details:

Long Stratton

Client Ref: Report Ref: Grid Ref:	East Pye Solar GSIP-2024-16319-20838_SS_7 631391, 295456	'_4
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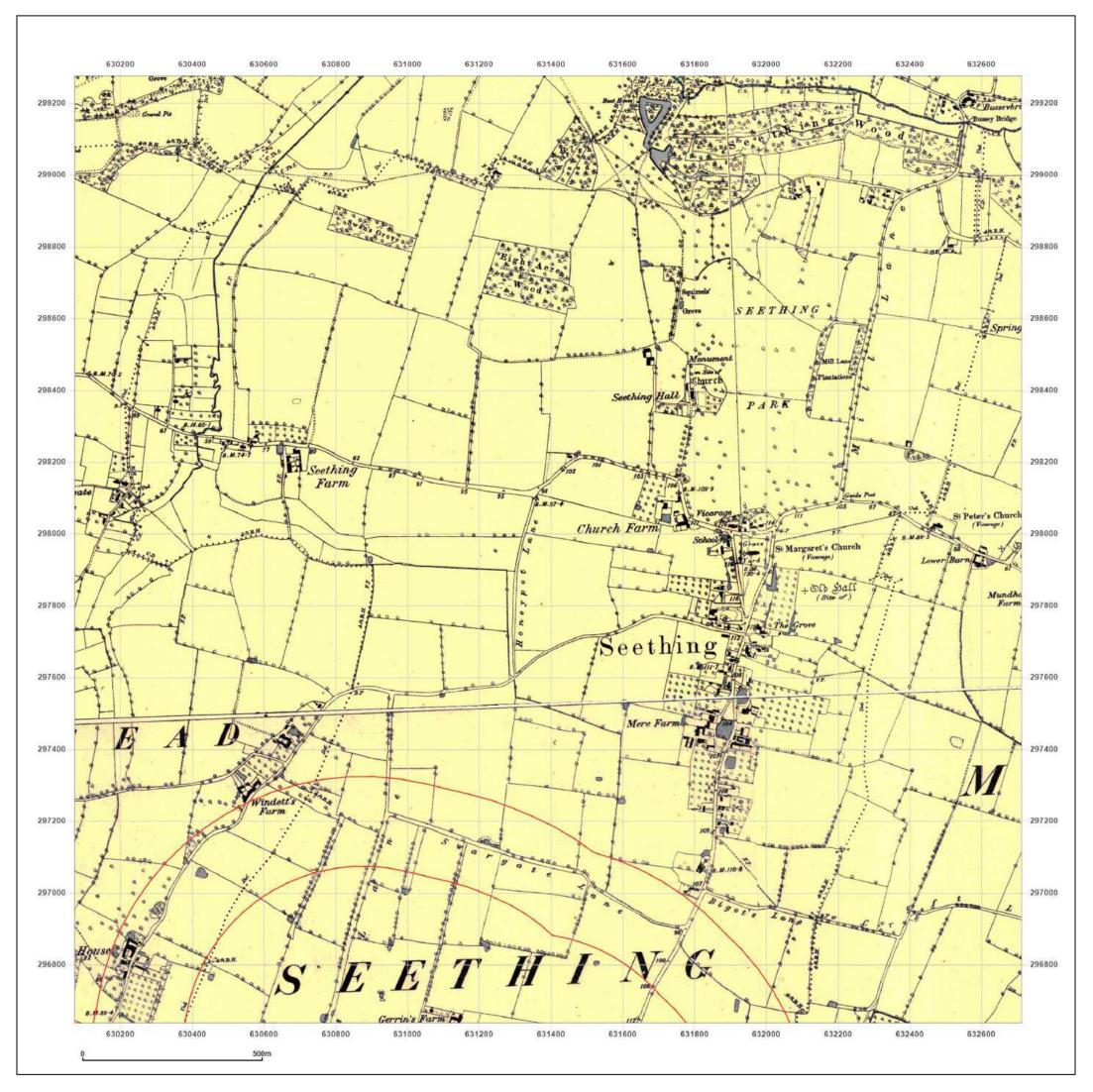
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Production date: 22 August 2024

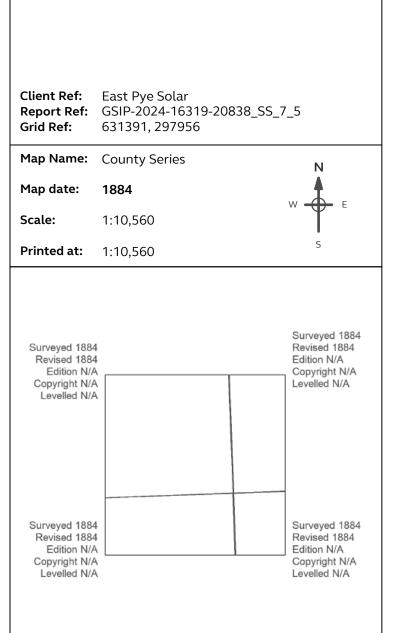


Map legend available at: www.groundsure.com/sites/default/files/groundsure\_legend.pdf



Site Details:

Long Stratton





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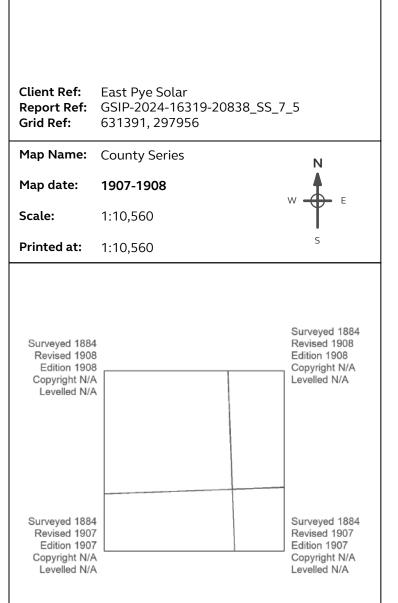
Production date: 22 August 2024





Site Details:

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Production date: 22 August 2024

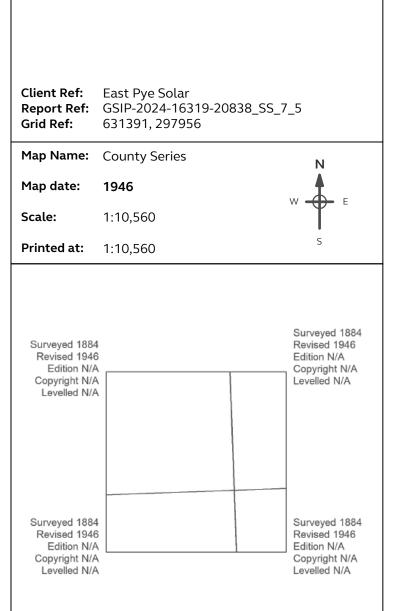


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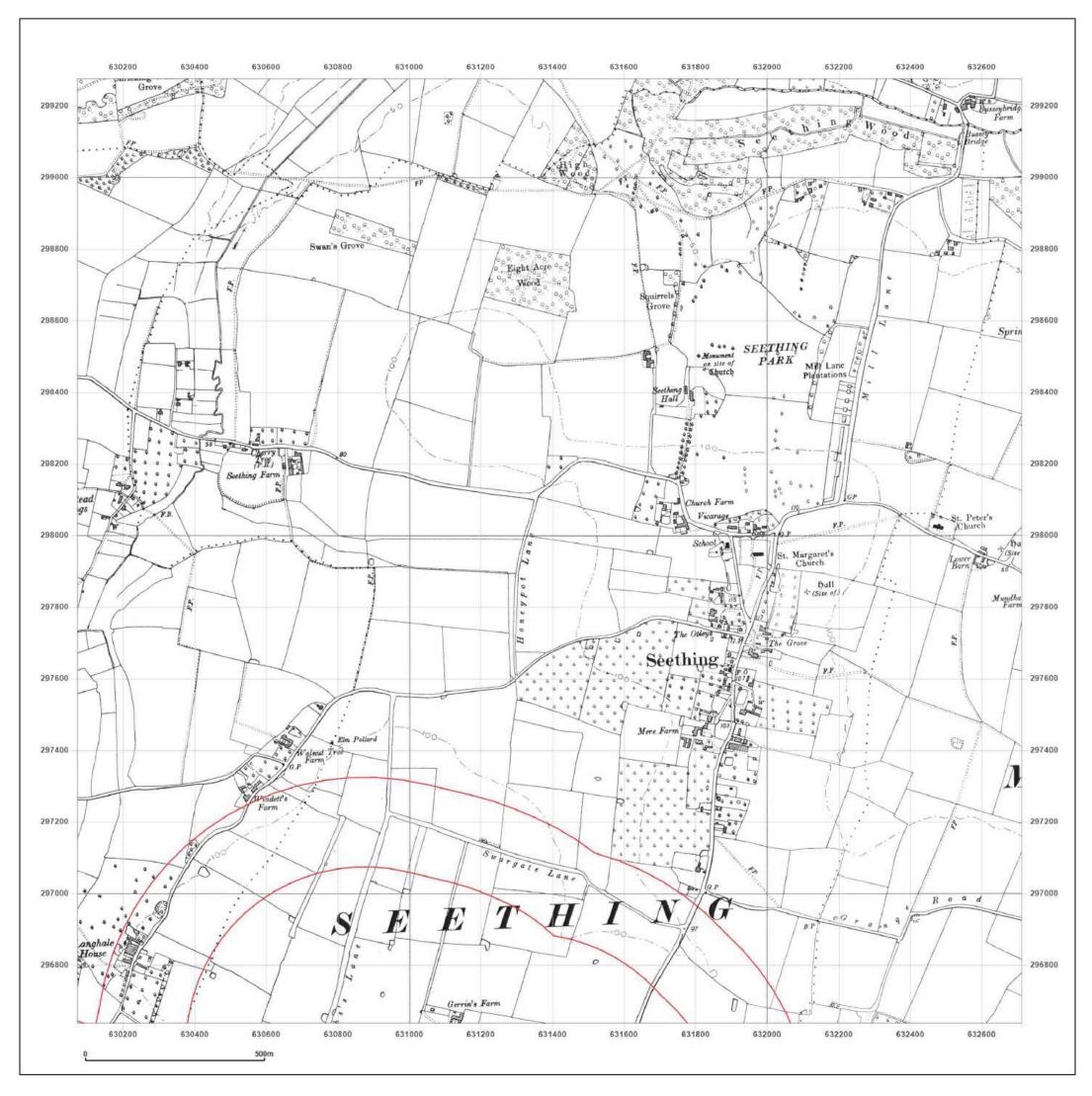
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Production date: 22 August 2024



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Site Details:

Long Stratton

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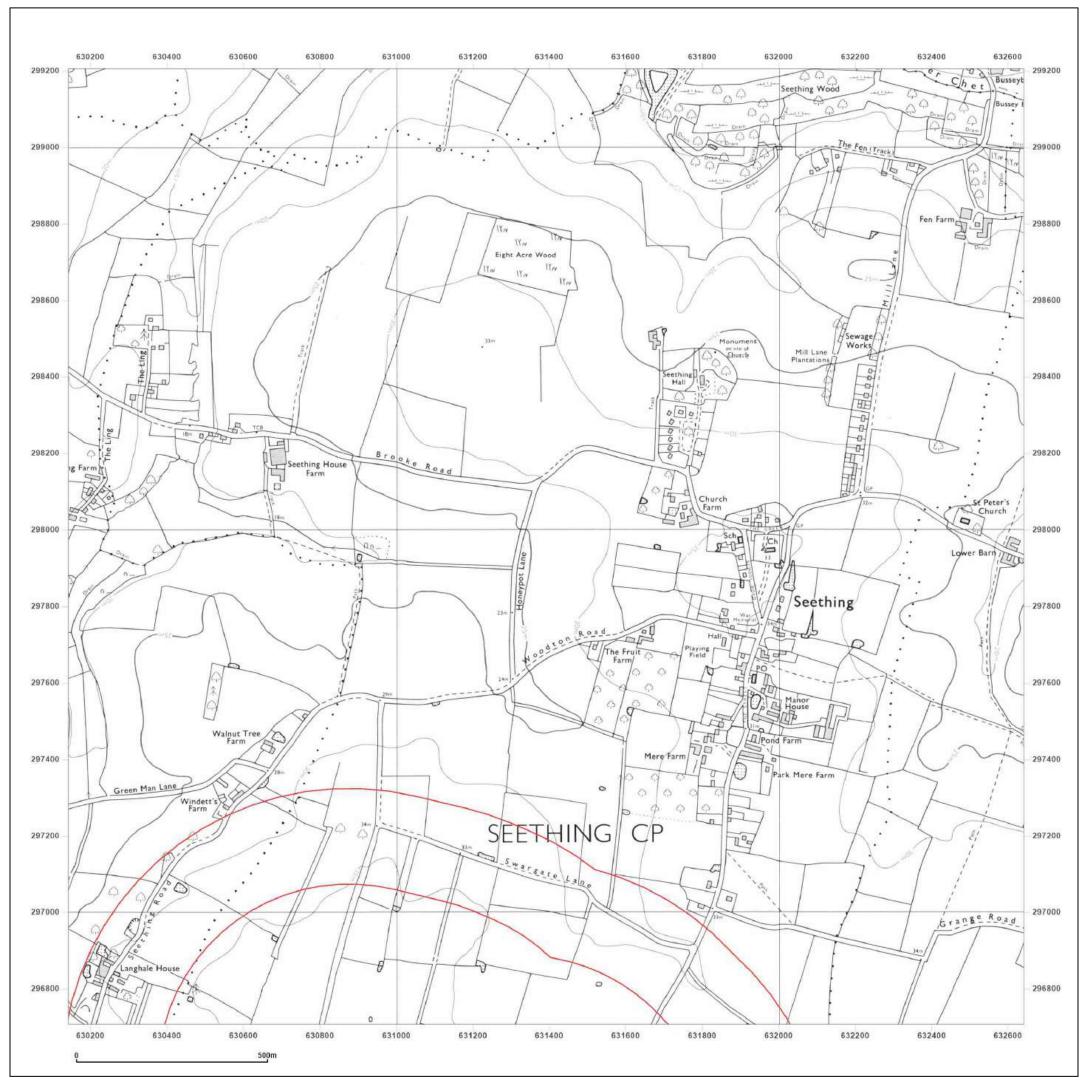
Surveyed N/A Revised 1956 Edition N/A Copyright 1957 Levelled N/A



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Production date: 22 August 2024



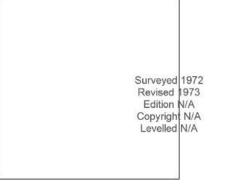
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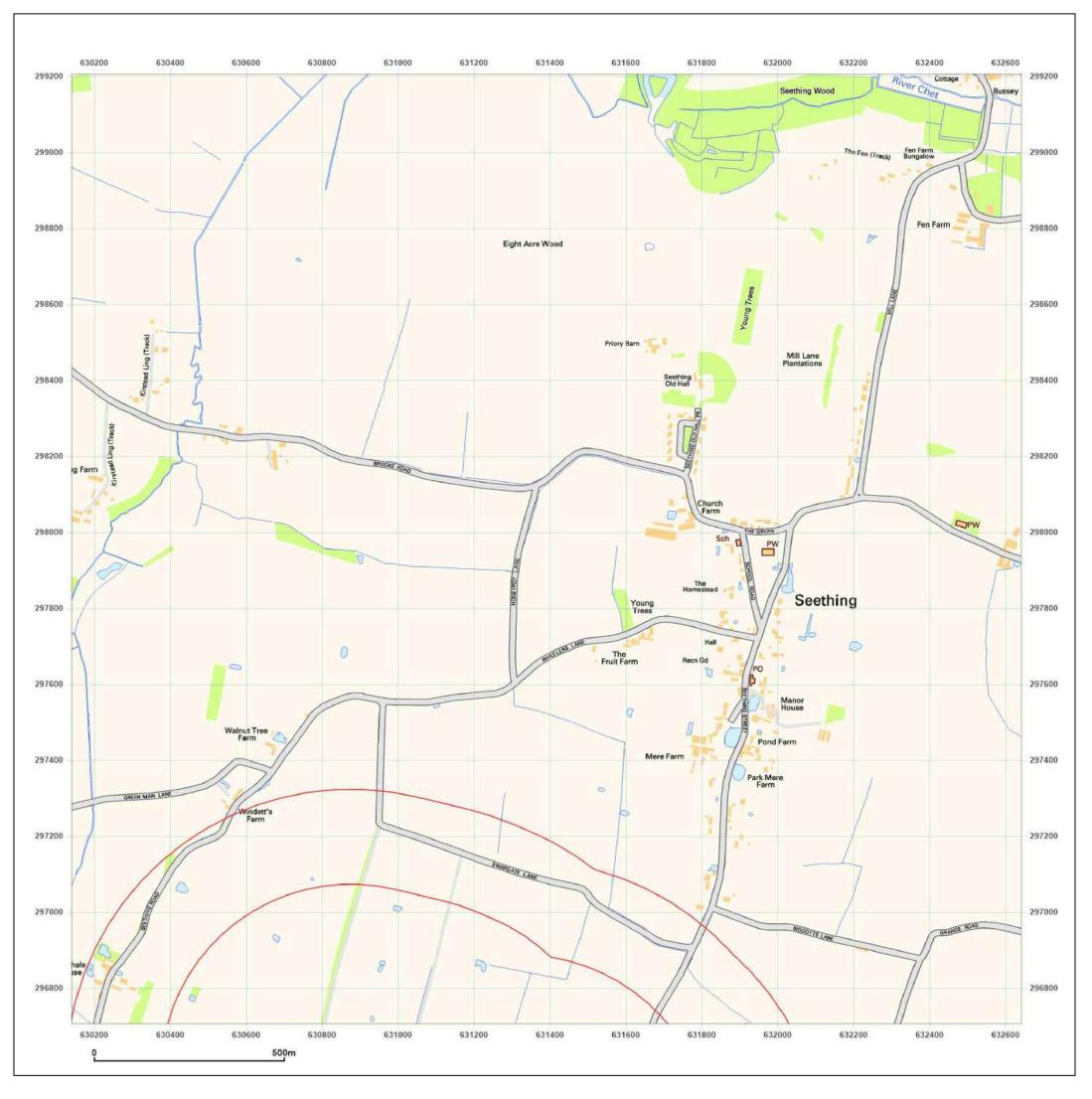
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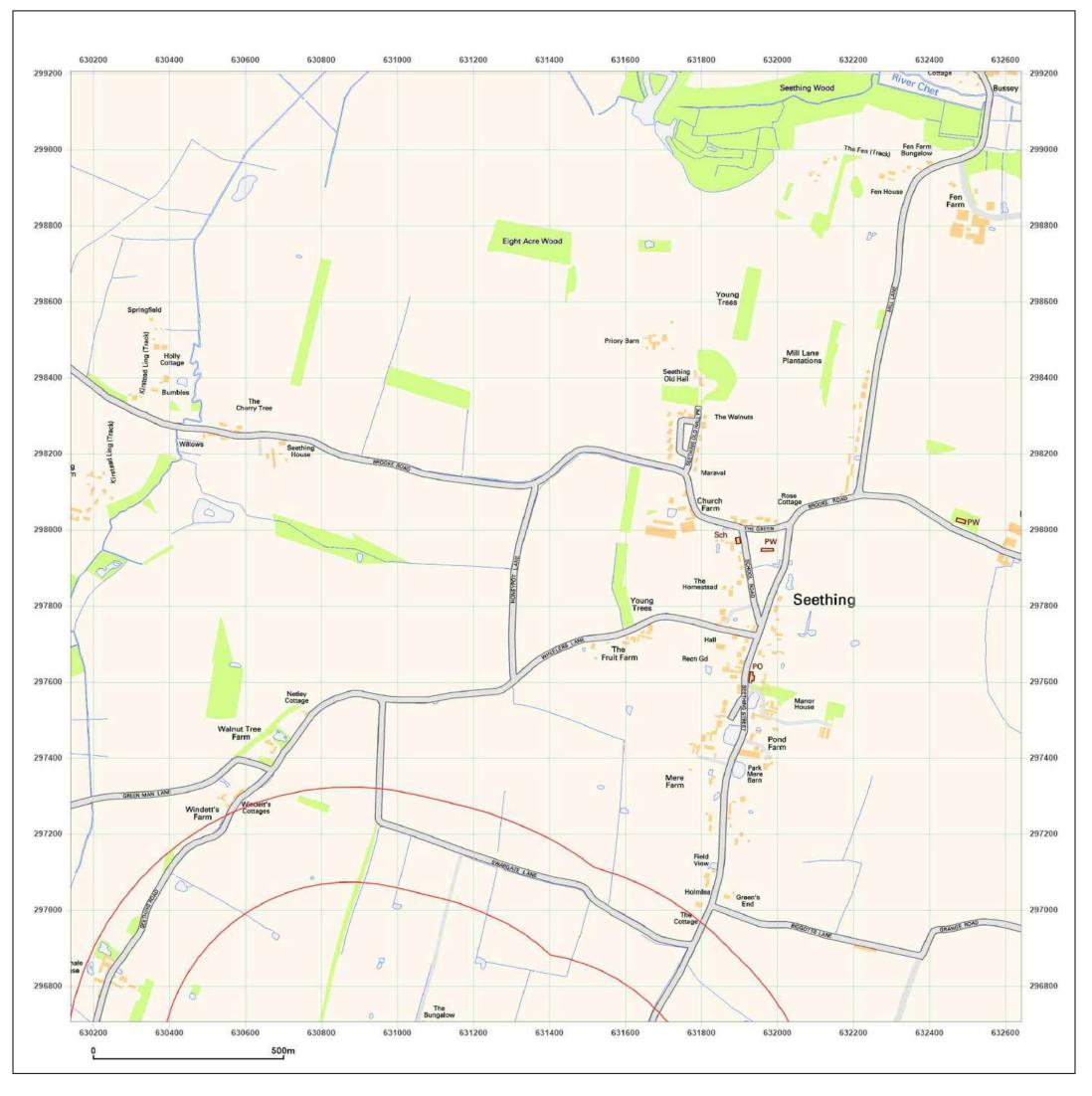
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Production date: 22 August 2024

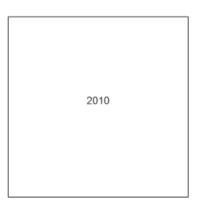




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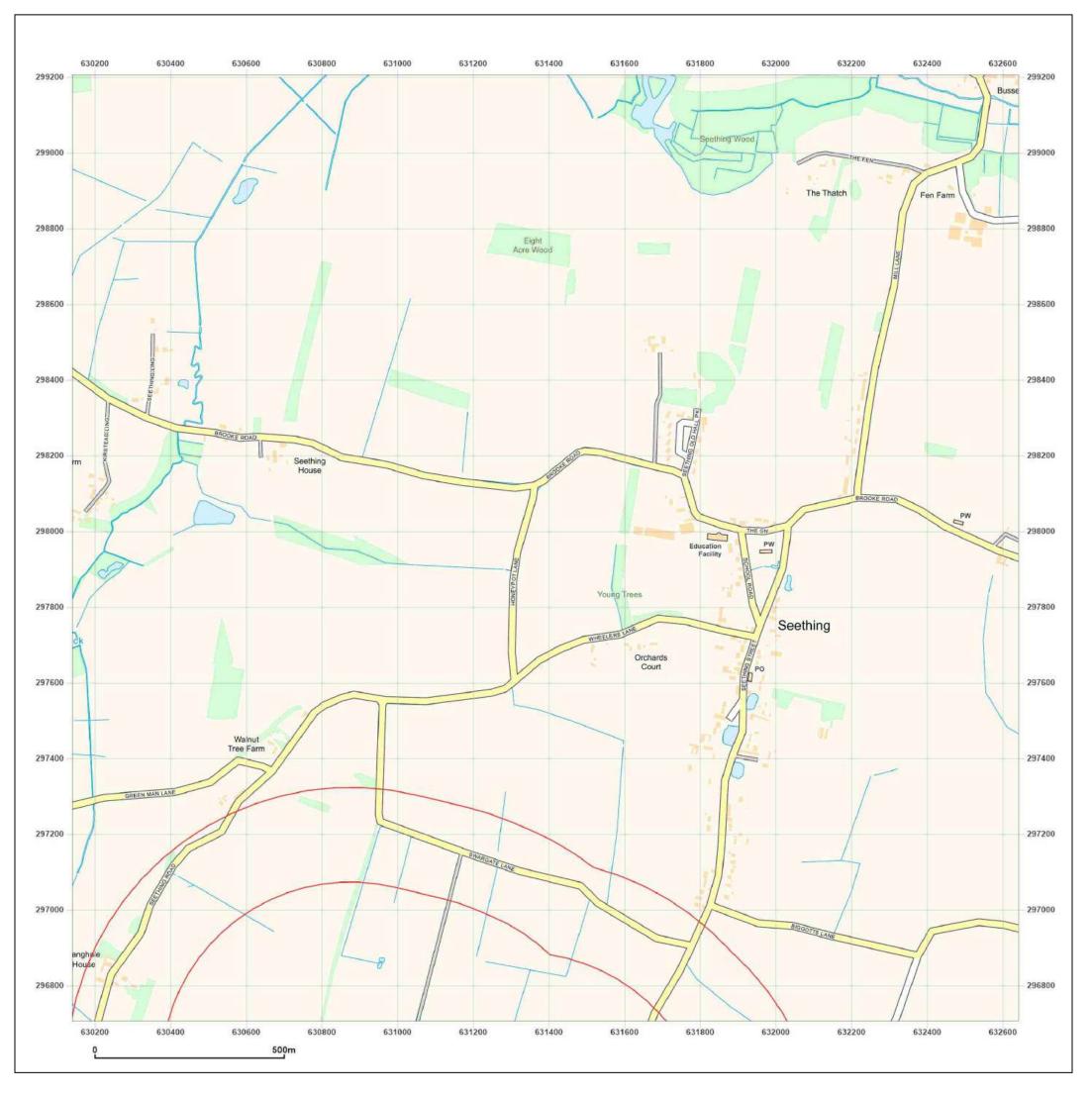


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Production date: 22 August 2024

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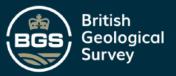
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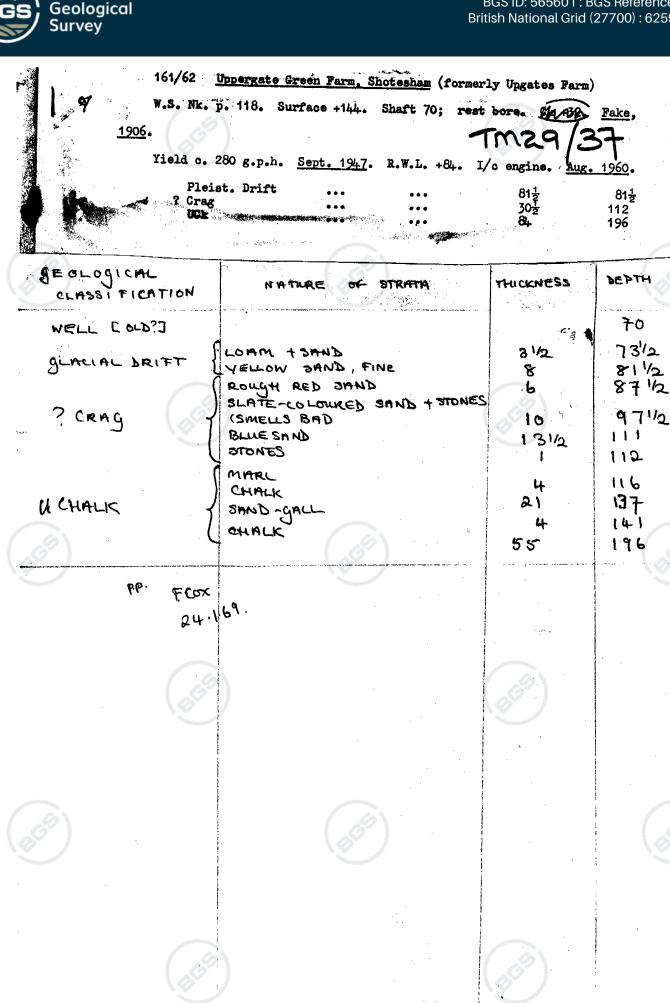
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# Annex 3 Extracts of Relevant BGS Archive Exploratory Holes



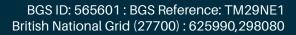
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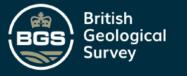
#### BGS ID: 565601 : BGS Reference: TM29NE1 British National Grid (27700) : 625990,298080



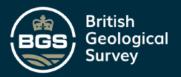
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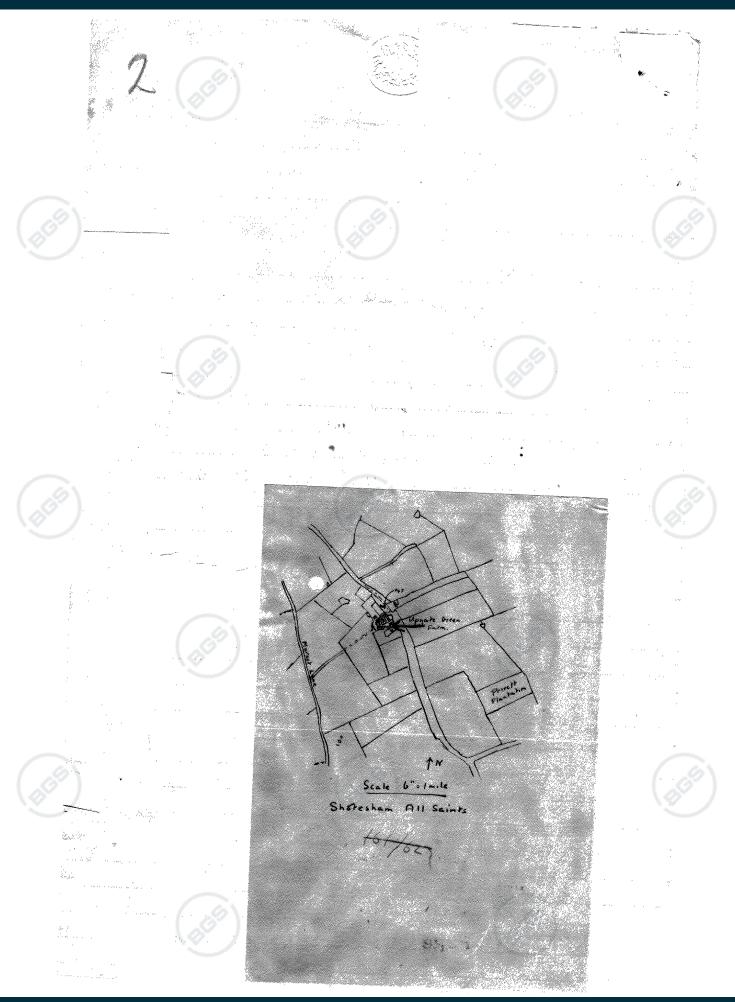


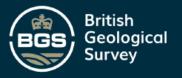


Shotesham All Ordnance Map 161, new ser. (Norfolk 87, N.E.). Geologic Map 66. Upgates Farm. 1906. Made and communicated by MESSRS. FAKE, of Norwich. uppergate Thickness. Depth. Feet. Feet. 70 Well [old ?] [Glacial { Loam and sand ... Drift.] { Loam and sand ... Yellow sand, fine Rough red sand ... Slate-coloured sand and stones. Smells [? Grag.] { bad ... Phys. sand... 31 811 8 10 bad ... Blue sand... Stones ...  $13\frac{1}{2}$ 112 32 .... ••• ... .... [Chalk.] [Chalk.] Sand-gall.... Chalk ... ... .... 444 ••\* 21 .4 55 .... 196 a greed Viriled 4/9/47 Helery vs. 24 .1.69 pers. S. p. W. Vse pump 200 galls, Ala pu Takes 24 hr. 6 are s were top ct 1444. Nonfact \$7 NE/E. Sted Buchingham 1922 placed by Pump Visited. Known as Uppergate Green For House un occupied at present Supply for firm c. 200 g.p. week. R.w.L. 60't.w.t. Petrol engine. 26/8/60 BH Bank DATA Published in 'The Water Supply of Norfolk, Fage 118

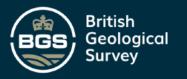


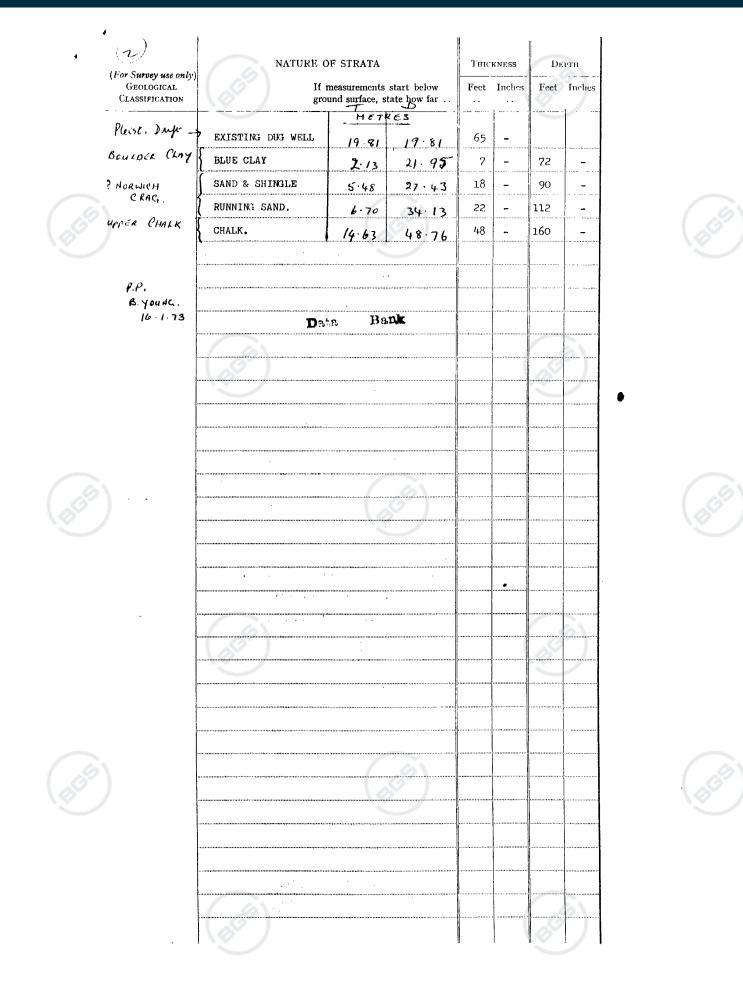
## BGS ID: 565601 : BGS Reference: TM29NE1 British National Grid (27700) : 625990,298080

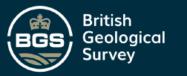




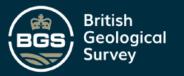
		2661 9845		NE
· ()	RECORD OF WELL (SHAFT At HOWE HALL (Scott Pastu		For Survey use only N 13549 161 Tm 29 14 670	
EXACT SITE OF WELL	Town or Village HOWE		Licence No.	
	5	7/NS/Finch quarter sl	TM2661 . 9845	
	For $M/S$ BURGESS BROS., Address (if different from above) Level of ground surface above sea-level (O.D.) $+c$ /30 ft. SHAFT 65 ft.; diameter ft.	State whether owned contractor, consult     If well-top is not a level, state how far	er, tenant, builder, OWNERS ant, etc.:	
\$	Full details of permanent lining tubes (position (191-1977) 4" H/W. S. & S. TUBE TO 135FT	m) C. DEPTH. Zm)		
TEST CONDITIONS	pumping at <b>2.70</b> galls. per HOUR Recovery to rest-level in mins. Capacity DESCRIPTION OF PERMANENT PUMPING	(35- Suction at 117 with depression to		(86 <sup>6</sup> )
NORMAL CONDITIONS	Make and/or type $341 \text{ //s}$ Capacity $270 \text{ //s}$ gallons per hour,		(35.66 m) 17 #	
			ongalls. per week.	
ί	Amount pumped		Datc of well 20.11.72.	
	Information from	" TIONAL NOTES		
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27) D4574, W1637688	GEOLOGICAL SURVEY AND MUSEUM, CARY 6.		te 1" O.S. Map ved No. Site marked (use symbol on 1" Map on 6" Map	)
		245/12		



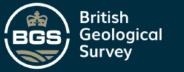




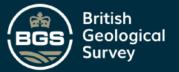
TM29NE/4 255-6.9685 Lathgreen Farm, Shotesham 161/508 Shaft 52; rest bore. Lining tubes: 82 x 4 in. Surface +135. ł R.W.L. +76. I/c engine. Hardness: total 574. Ferruginous. Anal. Page, July 1949. Aug. 1960. Yield 700 - 800 g.p.d. c.52 C.52 Boulder Clay Sand and Gravel ) 89 c.37 Crag 161 72 ucř Challey Boneder Clay Seind + Gravel \_\_\_\_\_\_ 52 52 1511 well + 11 30 Sand + Shingle-73 21 Norwich Crae c. 37 grey sand 89 16 Chalk 72 161 upper chalk (49.07) 72 pp.Flox 23.170. 6"granter Sheet 87 SEE



IS Shaft 52; rest bore. Lining tubes: 82 x 4 in. Ck +46. Lathgreen Farm, Shotesham 161/508 41-15 Surface +135. R.W.L. +76. I/c engine. Hardness: total 574. Ferruginous. Anal. Page, July 1949. Aug. 1960. Yield 700 - 800 g.p.d. c.52 Sand and Gravel ) Cra-Boulder Clay C.52 89 c.37 Crag UCK 161 72 Challey Boneder Clay 252 Well 52 52 15.85 + 25.30 Sand + Shingle-73 21 22.25 Norwich c. 37' Crae Grey sand 89 16 27.13 +14.02 Chalk 72 161 upper chalk (49.07) 72 pp.F.lox 23.1.70. 6"guarter Sheet 87 SE/E

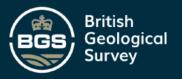


Tm29/38161/508 Lathgreen Farm, Shotesham Surface +135. Shaft 52; rest bore. Lining tubes: 82 x 4 in. Ck +46. R.W.L. +76. I/c engine. Hardness: total 574. Ferruginous. Anal. Page, July 1949. Aug. 1960. Yield 700 - 800 g.p.d. Boulder Clay c.52 c.52 Sand and Gravel ) c.37 89 Crag UCK 161 72 Challey Boneder Clay Seind + Gravel \_\_\_\_\_\_ 52 52 well Sand + Shingle-73 21 Norwich Grag groy sand c. 37' 89 16 Chalk 72 upper chalk 72 161 pp.Flox 23.1.70. 6"granter Sheet 87 SE/E

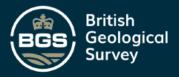


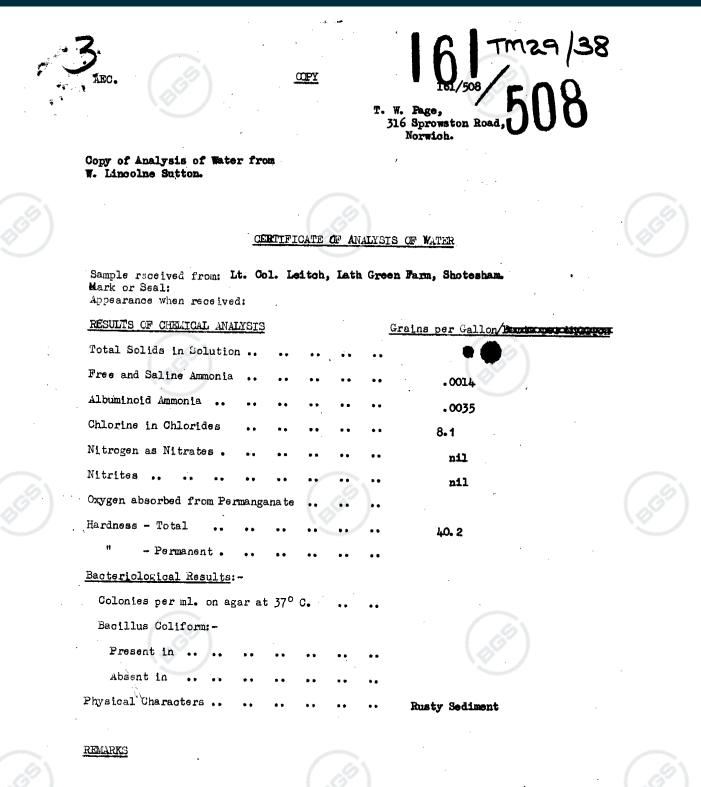
TM29/38For Survey use only RECORD OF WELL (SHAFT OR BORE) N. 6739 LATHGREEN FARM EXACT SITE Licence No OF WELL SHOTESHAM Town or Village.... 87 SE/E Nonfack ......Six-inch quarter sheet..... County..... contractor, consultant, etc.:--State whether owner, tenant, builder, For H. Col. F.R. heitch Address (if different from above). Level of ground surface If well-top is not at ground  $\int above:$ above sea-level (O.D.) +C.135 ft. level, state how far Ubelow; ..... .....ft. SHAFT 52 ft.; diameter ft.; Full details of headings (dimensions and directions) BORE 109 ft.; diameter of bore: at top \_\_\_\_\_ ins.; at bottom 4 ins. Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.) 81'11" × 44" ft. below well-top. Water struck at depths of...... hours' test Rest level of water <u>59</u> ft. above well-top. Suction at ft. Yield on hours days' TEST with depression to......ft. below well-top. pumping at......galls. per..... CONDITIONS mins. Capacity of pump......g.p.h. Date of measurements..... Recovery to rest-level in hours DESCRIPTION OF PERMANENT PUMPING EQUIPMENT: Make and/or type Climence 24R Motive power Peter Peter Peter Peter NORMAL CONDITIONS Capacity......gallons per hour. Suction at ....ft. ......galls. per week. Well made by T.w. Page, Sprowston Rd. Donwich Date of well Y. July 1949 Information from No-fock AISC. file ws 880/161. 8.1.54. Pok - REA. ADDITIONAL NOTES ANALYSIS (please attach copy if available) Sited by O on 6" maps Nonfolk 87 SE/E Visited . 0D+C. 135. Consumption 700 - 800 g.p.d. Petrol Engine. Water very hard & foring inous. Softened for domestic 26/8/60 BN. Dd574/Wt37583 12,000 8/54 JC&S Gp669 LOG OF STRATA OVERLEAF. GEOLOGICAL SURVEY AND MUSEUM, South Kensington, London, S.W.7. 1" O.S. Map No. Site marked on 1" Map Date Received (use symbol) on 6" Map Section 6. (1527) 8.12.54  $\odot$ O

## BGS ID: 565604 : BGS Reference: TM29NE4 British National Grid (27700) : 625560,296850



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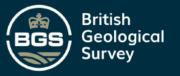




This water is of good organic quality and free from any dangerous pollution, I am of the opinion that it is fit for drinking purposes when clear. It is, however distinctly ferruginous and hard, and thus inconvenient for domestic purposes unless clarified.

Bank

DATA



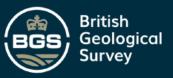
	$\frac{161/509}{4^{1+15}} \qquad \frac{\text{Dawson's}}{5}$	Farm, Shotesham ing tubes: 115 x 4 in from	TM 29 NE/5 2601-9625 surface. Ck +43. R.W.L.	
	+78. <u>Page, Sept. 1950</u> .	je t		
	Aug. 1960.	. (summer); c. 100 g.p.d.	(winter). I/c engine.	
(3)	Boulder Clay c.41	Loam Yellow clay Blue olay and chalk stone Yellow clay and stone	1 1 5 6 25 31 c.10 c.41	
(ar)	Sand and Gravel c.13 +24.69	Sand and stone Sand and shingle	<b>c.</b> 8 .49 54 16.46	
	Crag 38 (11.5%)	Grey sand Grey sand and shell Stone	34         88           3         91           1         92         28.04	
	UCK 44	Chalk	44 136 (41.45°)	
·	pp. F. Cox. 6"quarter Sheet	24.1.69.		
	87 SE/E			
			(155)	
		(B55)		
		·	(265)	

#### BGS ID: 565605 : BGS Reference: TM29NE5 British National Grid (27700) : 626010,296250

British Geological Survey TM29/39 Dawson's Farm, Shotesham 161/509 Surface +135. Lining tubes: 115 x 4 in from surface. Ck +43. R.W.L. +78. Page, Sept. 1950. iŧ ц, Yield c. 200 g.p.d. (summer); c. 100 g.p.d. (winter). I/c engine. Aug. 1960. į, <u>,</u> 1 1 Loam 6 5 Boulder Clay Yellow clay 25 31 Blue olay and chalk stone c.41 Yellow clay and stone 0.10 c.41 c. 8 .49 Sand and Gravel Sand and stone Sand and shingle 5 54 0.13 34 3 88 Grey sand Crag Grey sand and shell 91 38 ς1 92 Stone : ļ 136<sup>°</sup> Chalk : 44 UCk 44 H pp. F. Cox. 24.1.69. 6"quarter Sheek 87 SE/E

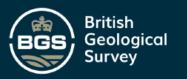


## BGS ID: 565605 : BGS Reference: TM29NE5 British National Grid (27700) : 626010,296250

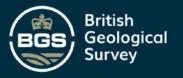


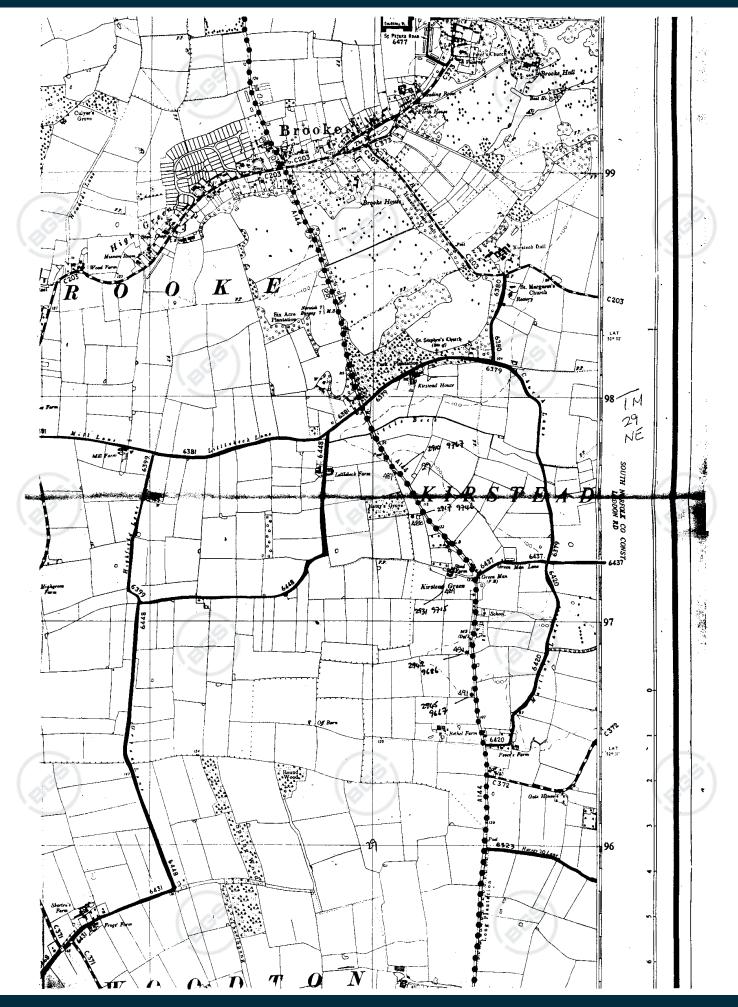
	TM29/39
	RECORD OF WELL (SHAFT OR BORE)
200 2	At DAWSON'S FARM
EXACT SITE OF WELL	Town or Village Sheresham Licence No.
	County Norfolk Six-inch quarter sheet <u>84</u> SE <u>E</u> . For <u>P.w. Rounding</u> State whether owner, tenant, builder, <u>success</u>
(255)	Address (if different from above)       If well-top is not at ground surface         Level of ground surface       If well-top is not at ground level, state how far         above sea-level (O.D.)       If the state how far
	SHAFTft.; diameterft.; Full details of headings (dimensions and directions)
	BORE 136 ft.; diameter of bore: at top <u>44</u> ins.; at bottom <u>44</u> ins. Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.) Lined 115 ft.
	Water struck at depths offt. below well-top.
TEST CONDITIONS	Rest level of water 57 ft. above below well-top.       Suction at ft. Yield on hours' test days' test days' test         pumping at galls. per with depression to ft. below well-top.         Recovery to rest-level in hours       Capacity of pump g.p.h. Date of measurements
	DESCRIPTION OF PERMANENT PUMPING EQUIPMENT: Make and/or type Dw. Pump Motive power
NORMAL CONDITIONS	Capacity
	Amount pumped galls. per day. Estimated consumption 450.500 galls. per weekt. Well made by T Page. Sprowston Rd. Norwich Date of well 12.9.50. Information from Donfolk AIEC. file WS 1358/136. 8.12.54. Rep.
	ADDITIONAL NOTES ANALYSIS (please attach copy if available) Siked by O m 6 map Nonfolk 87 SE/F
	Visited. OD+c.135. Consumption c.200 g.p.d (Summer). 400 gall. tank. c.100 g.p.d (Winlin) Retire engine. 26/8/60 BH.
	LOG OF STRATA OVERLEAF. GEOLOGICAL SURVEY AND MUSEUM, SOUTH KENSINGTON, COULD SOUTH KENSINGTON, South Ke
	GEOLOGICAL SURVEY AND MUSEUM, SOUTH KENSINGTON, LONDON, S.W.7.       Section 6.       Date Received       1"O.S. Map No.       Site marked on 1" Map       (use symbol) on 6" Map         Egg       P.p.54       O       O

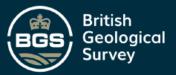
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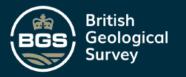




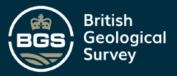


NOTIFICATION NO 890061 Kastern' A.W.A. For Institute use only Licence No. N 890061 **RECORD OF WELL** . LEY FARM TM 20 Town or Village SHOTESHATT .... County NORFORK THE9NE 13 EXACT SITE TH 26549 Six-inch National Grid sheet and reference .... OF WELL For MR CRIZY. State whether owner, tenant, builder, contractor, consultant, etc.....O.W.NRR Address (if different from above) ASHBY HALL ASHBY ST MART NORWICH. DELETE HEADINGS (please attach details-dimensions and directions) NECESSARY Full details of permanent lining tubes (position, length, inner and outer diameters, plain slotted etc.): W210120 STAILL TUBES 145' PLAIN BORAS 35' Water struck at depths of ......m) below well top TEST CONDITIONS Date of measurements. 29: 8: 89 DESCRIPTION OF PERMANENT PUMPING EQUIPMENT: Make and/or type DAB SC24M. Motive power 240 JULTS NORMAL CONDITIONS Weil made by PANKS ENCINIBARS AT Date of sinking AURUST 89 ADDITIONAL NOTES ANALYSIS (please attach copy if available) LOG OF Pank ed form Engineers Ltd STRATA Date 22.9.89 OVERLEAF Observation well..... Recorder ..... ER log ..... Site marked on INSTITUTE OF GEOLOGICAL SCIENCES 1" map ..... 6" map-Grid Sheet ... HYDROGEOLOGY UNIT EXHIBITION ROAD (use symbol) LONDON SW7 2DE Copy (0..... ..... NGS 2494 10 000 7/75 Date.....

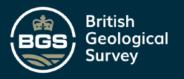




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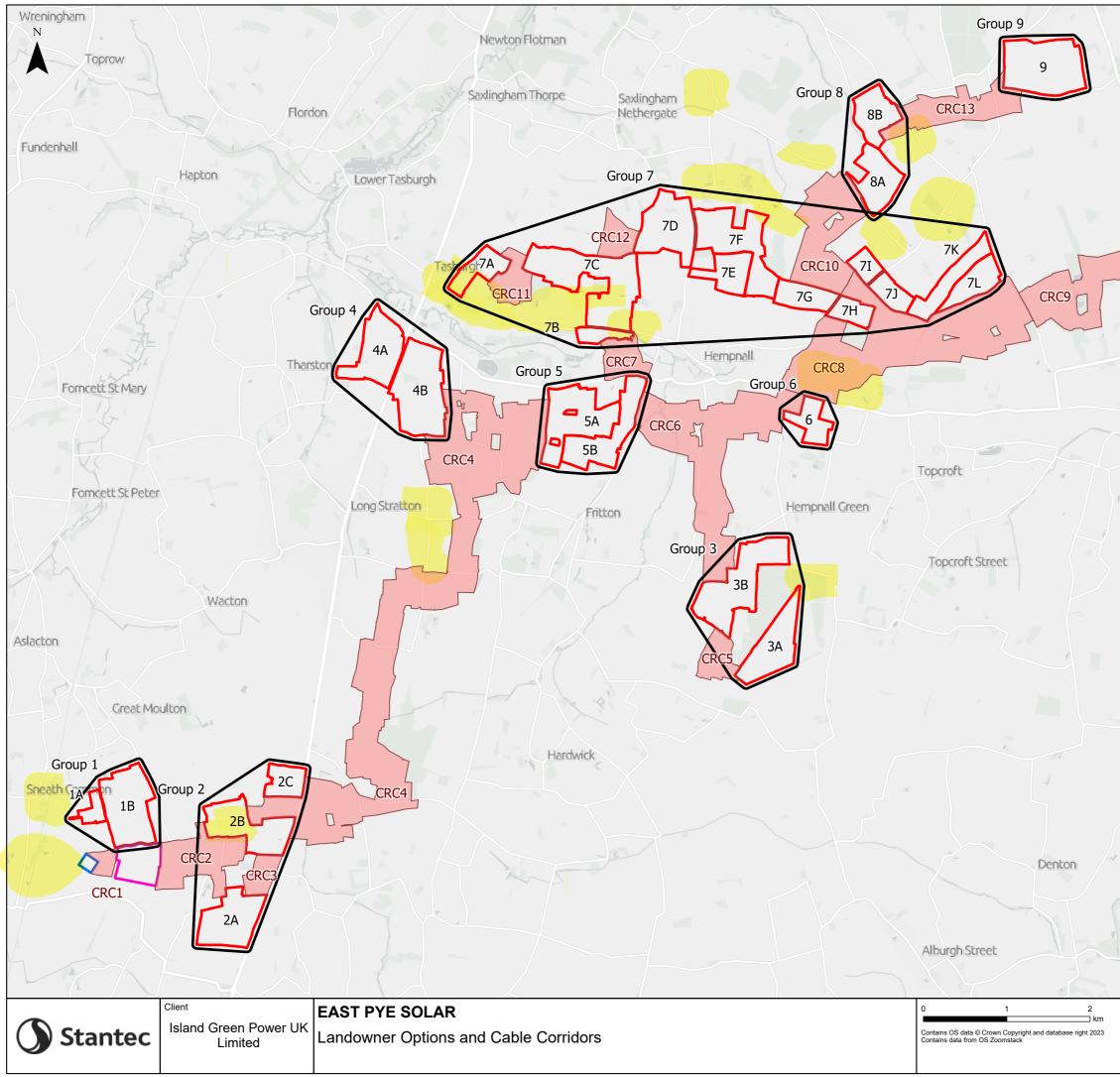
NOTIFICATION NO 890061 Kastern AWA. For Institute use only Licence No. **RECORD OF WELL** N 890061 M LEY FARM Town or Village SHOTESHAM County NORFOLK THEANE EXACT SITE Six-inch National Grid sheet and reference T.H. 26549728 OF WELL For HR CREY State whether owner, tenant, builder, contractor, consultant, etc.;.... O.W.NR.C. Address (il different from above) ... ASHBY HALL ASHBY ST MARY NORWICH. DELETE. AS HEADINGS (please attach details-dimensions and directions) NECESSARY Full details of permanent lining tubes (position, length, inner and outer diameters, plain slotted etc.): W260130 STARL TUBES 145' PLAIN BORAS 35' \_\_\_\_\_ ..... Water struck at depths of .....m) below well top TEST CONDITIONS DESCRIPTION OF PERMANENT PUMPING EQUIPMENT: Make and/or type DAB SC24M. Motive rower 240/0575 SORMAL CONDITIONS Well made by PANKS FINGINIARS AT Date of sinking AURUST 89 ADDITIONAL NOTES ANALYSIS (please attach copy if available) LOG OF STRATA Mineers Ltd OVERLEAF Date. 2-2-9-89 Observation well. Recorder ..... ER log Sire marked on INSTITUTE OF GEOLOGICAL SCIENCES I" map ..... HYDROCEOLOGY UNIT 6" map-Grid Sheet..... EXHIBITION ROAD (use symbol) LONDON SW7 2DE Copy to. ..... 7G3 2494 18 689 7/75 Date.....



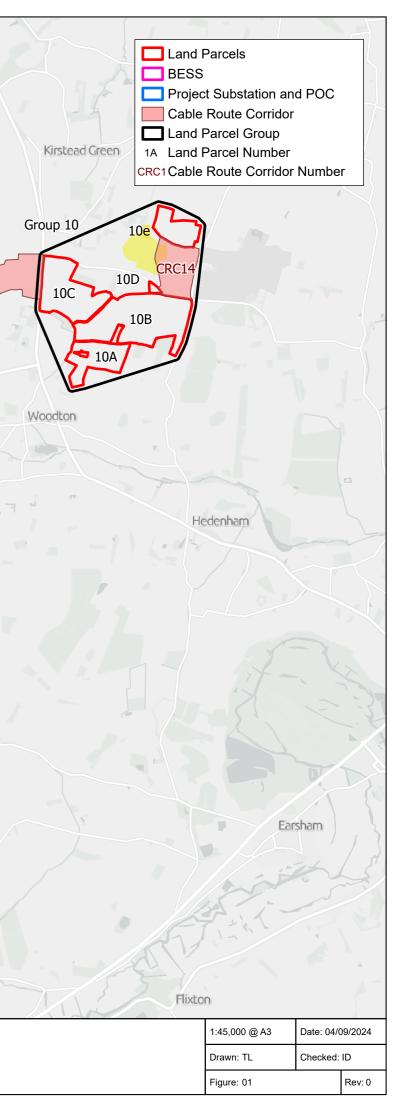
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# Annex 4 Regulatory Consultation Responses – South Norfolk and Broadlands District Council



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# Annex 5 Regulatory Consultation Responses – Environment Agency and Animal and Plant Health Agency



Nicholas Hills	Our ref	EAn/2024/378627
Stantec		
nick.hills@stantec.com	Date	17 October 2024

Dear Nicholas

#### Enquiry regarding site located between Sneath Common and Seething, in Norfolk

Thank you for your enquiry of 26 September 2024.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Please see attached spreadsheet detailing active IPPC authorisations, historic landfills and waste management licences in the area of interest.

As none of the landfill sites are current, there is no monitoring information to provide. We do not hold any monitoring information for the historic landfills.

The majority of the IPPC authorisations are for intensive agriculture sites.

We can confirm that there are no RSA Authorisations inside the land parcels and cable corridors or within 250 metres of these areas.

Location data for all Intensive farms and other installation sites is publicly available <u>https://environment.data.gov.uk/public-register/downloads/industrial-installations</u>

Part B environmental permits are regulated by the local authority, so please contact them for this information.

According to our records, there are no prosecutions, enforcement or prohibitions for the area.

You can also find the data relating to issues you are concerned with using the public register: <u>https://environment.data.gov.uk/public-register/view/search-all</u> and the register of enforcement actions <u>https://environment.data.gov.uk/public-register/view/search-all</u> and the register of <u>enforcement-action</u>.

The following sites within 250 m of the site have been reviewed with respect to Land Contamination, and all documents including our responses relating to the sites can be found via the <u>South Norfolk District Council planning website</u> under the following planning references:

- 2008/0917/F, Land at Busseys Loke, Hempnall
- 2013/0105, Land surrounding Busseys Loke, North of Bungay Road, Hempnall
- 2011/1861, Land surrounding Busseys Loke, North of Bungay Road, Hempnall
- 2021/0515, Poultry Farm Road, Green Hempnall NR15 2NH

East Anglia Area Ipswich Office, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE General Enquiries: 03708 506506 Email: <u>enquiries@environment-agency.gov.uk</u> Website: https://www.gov.uk/government/organisations/environment-agency



- 2013/0199, Land East of Long Stratton Village, Ipswich Road, Long Stratton
- 2020/2338, Grange Farm, Lundy Green, Hempnall, Norfolk, NR15 2NX
- No Reference number , Land at Busseys Loke, Hempnall

There is also the following site investigation which we do not have an electronic copy of. This investigation is also outside the retention period so it is unlikely information would be held in paper form and any information may be out of date. If you need us to review the paper file please let us know:

• N0020 Hardwick Airfield (from 1992)

The Local Authority will be able to advise on matters relating to human health.

According to our records, there are no abstraction licenses within the shapefile area and none within a 250m buffer.

Certain private and small water supplies do not require a licence to abstract water; therefore, we are not necessarily aware of their existence. The locations of private domestic sources may be held by the local authority on the register required by Regulation 14 Private Water Supplies Regulations 2016. Further details on regulating private water supplies are available on the drinking water inspectorate website (<u>https://www.dwi.gov.uk/private-water-supplies/</u>).

We have no specific information on animal burials. We suggest you contact the Animal and Plant Health Agency (who enforce the Animal By-Product Regulations), or the Local Authority.

Please read the Open Government Licence: <u>www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</u> which explains the permitted use of this information.

Please get in touch if you have any further queries or contact us within two months if you would like us to review the information we have sent.

We deal with requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (EIR). The Act requires that we respond to requests by advising you whether or not information is held, and if so by providing you with that information.

EIR Regulation 3(2) states that information is held if it is in our possession and has been produced or received by us, or it is held by another person on our behalf at the time the request is received.

# Information not held by us

In this case, the Part B environmental permits and animal burial information you have requested is not held by the Environment Agency, and we are therefore refusing your request on the grounds that there is no information we can provide.

Where a request is for environmental information, the Regulations allow us to refuse to disclose it if the exception at EIR Regulation 12(4)(a) applies. The regulation states that a public authority may refuse to disclose environmental information to the extent that it does not hold that information when an applicant's request is received.

It is not possible for us to conduct a public interest balancing test because the reason for non-disclosure is that the information is not held.

#### East Anglia Area

Ipswich Öffice, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE General Enquiries: 03708 506506 Email: <u>enquiries@environment-agency.gov.uk</u> Website: https://www.gov.uk/government/organisations/environment-agency

# Information held by South Norfolk Council & Animal and Plant Health Agency

We believe that the information you have requested is held by South Norfolk Council & Animal and Plant Health Agency. If you wish us to pass on your request please let me know. If you would rather approach that body yourself, the contacts details are:

South Norfolk Council Contact us | Broadland and South Norfolk (southnorfolkandbroadland.gov.uk)

Animal and Plant Health Agency Contact APHA - GOV.UK (www.gov.uk)

#### **Rights of appeal**

If you are not satisfied you can contact us within 2 calendar months to ask for our decision to be reviewed. We shall review our response to your request and give you our decision in writing within 40 working days.

If you are still not satisfied following this, you can raise a concern with the Information Commissioner, who is the statutory regulator for Freedom of Information and the Environmental Information Regulations. The contact details are:

Information Commissioner's Office Wycliffe House Water Lane Wilmslow Cheshire SK9 5AF Tel: 0303 123 1113 Website: <u>http://ico.org.uk</u> www.ico.org.uk/foicomplaints

Yours sincerely

# Teresa Chapman

### **Customers & Engagement Officer**

Customers and Engagement Team 02030 255472

Waste Mar Facility typ Facility type description

- 70496 SR/21 SR2011 No 3: Vehicle Depollution Facility <5000 tps
- 70518 A13 A13 : Household Waste Amenity Site
- 71361 A19 A19 : Metal Recycling Site (Vehicle Dismantler)
- 71415 A19 A19 : Metal Recycling Site (Vehicle Dismantler)

EPR licence number EA/EPR/AP3499NU EA/EPR/CB3800KU EA/EPR/XP3494NA EA/EPR/HP3794NK Site name David Yarham NORSE ENVIRONMENTAL WASTE SERVICES LIMITED Luke Parfitt G Metcalf National Grid Reference TM3071495938 TM2205194253 TM2482093585 TM2521696150 Historic Landfill Dataset reference EAHLD02920 EAHLD02930 Site name Off West side of Shelton Airfield Disused Off B1135 NGR TM6243029100 TM6218029430 Permit number Installation name Grid Reference of site entrance UP3231MJ Firs Field Farm Duck Unit - EPR/UP3231MJ TM25159365 BP3943QS Grange Farm Poultry Unit EPR/ZP3631MF TM23779219 WP3438NR Lost Lands Farm Poultry Unit - EPR/WP3438NR TM17608890 RP3531AZ Hempnall Poultry Farm EPR/RP3531AZ TM25579366 The Mill RP3129SN TM20809210 Spring Farm TM25269219 HP3628SC Littlebeck Poultry Farm EPR/TP3431HD TP3431HD TM28769767 ZP3631MF Grange Farm Poultry Unit TM23779219 Hardwick Farm Poultry Unit CP3333UA TM24509024 BP3830UY Shelton Farm TM23199018 VP3138FM Friars Farm TM21639257 The Mill RP3129SN TM20809210 Kates Hole Site TM19429374 FP3932QL VP3433CY Picton Farms Poultry Unit TM18709340 JP3938JC Wild Rose Poultry Farm TM19209050

# Hills, Nick

From: Sent: To: Cc:	SM-APHA-CSC One Health ABP <csconehealthabp@apha.gov.uk> 21 October 2024 13:09 Hills, Nick SM-APHA-Customer Advice; Copping, Catherine; Feather, Katie; Douglass, Ian; samantha.jones@islandgp.com</csconehealthabp@apha.gov.uk>
Subject:	RE: Environmental Information Request - East Pye Solar
Attachments:	AB142.doc

You don't often get email from csconehealthabp@apha.gov.uk. Learn why this is important

Good Afternoon Nick,

# ANIMAL HEALTH ACT 1981 ANIMALS (MISCELLANEOUS PROVISIONS) ORDER 1927

Thank you for your enquiry of 21/10/24. There is no register of animal burial sites to assist with your enquiry therefore the Animal & Plant Health Agency is not in a position to give reassurance in respect of the suitability of the land in question.

If burial sites are disturbed, there may be implications under the Control of Pollution Act and in this respect I suggest that you contact the appropriate authority.

In the event that animal remains are discovered in the course of land excavation, work should cease immediately and you should report the occurrence or your suspicions to this office. A licence will be required under the above legislation to enable excavation and subsequent disposal of the remains in a line with Animal By-products regulations.

I have enclosed a copy of the Guidelines for Exhumation and Disposal of Animal Carcasses (AB142) for your information.

Please do not hesitate to contact me if further assistance is required.

Kind regards,

**Nicola Lloyd-Rogers** 

AO

Animal By Products (ABP) Team

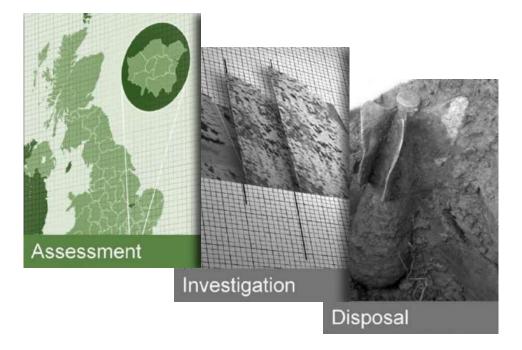
Normal working pattern Mon-Fri 8am - 1pm

# Animal and Plant Health Agency (APHA)

Telephone: 03000 200 301 | Email: <u>CSCOneHealthABP@apha.gov.uk</u> Website: <u>www.gov.uk/apha</u> | Twitter: <u>@APHAgovuk</u> | Facebook: <u>aphagov</u> Address: Customer Service Centre – Business Support, Worcestershire County Hall Spetchley Road, Worcester, WR5 2NP

# Annex 6 UXO Desk Study and Constraints Assessment





#### **UXO Desk Study & Constraints Assessment**

Document Ref. P14931-24-R1 Revision A Project Title Long Stratton to East Pye Client Stantec Date 4<sup>th</sup> November 2024

> Drafted by Maisy Venn Checked by Kim Pelling Authorised by Stefan Lang



# **UXO DESK STUDY & CONSTRAINTS ASSESSMENT**

#### **EXECUTIVE SUMMARY**

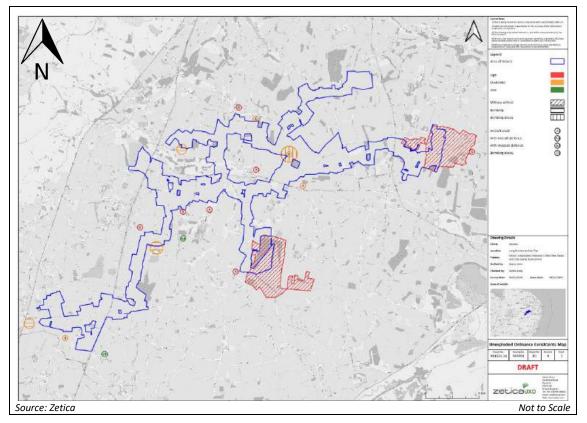
Zetica Ltd was commissioned by Stantec to carry out a detailed Unexploded Ordnance (UXO) Desk Study and Constraints Assessment for an area of approximately 2,216 hectares (ha) area in the vicinity of Long Stratton, Hempnall, and Woodton, in South Norfolk.

The aim of this report is to gain a fair and representative view of the UXO hazard constraints for the Area of Search in accordance with the Construction Industry Research and Information Association (CIRIA) C681, 'Unexploded Ordnance (UXO), a Guide for the Construction Industry'.

The main potential UXO hazard constraints in and within close proximity of the Area of Search are shown on the accompanying P14931-24-R1-MAP01-A.

The Figure below, reproduced as Figure 4 in the main report, illustrates the main UXO hazard constraints identified.

#### UXO hazard constraints in and within close proximity of the Area of Search



The main findings of the report are summarised below.

#### Wartime bombing

- No significant World War One (WWI) bombing has been identified in the Area of Search.
- World War Two (WWII) bombing densities in the Area of Search were generally low. Several instances of United States Army Air Force (USAAF) aircraft jettisoning bombs in and within close proximity to the Area of Search have been recorded.
- Records also indicate that there was 1No. bombing decoy within the Area of Search.

#### Military airfields & aircraft crashes

• 2No. WWII-era bomber airfields were identified within the Area of Search.

P14931-24-R1-A



ii

• There were at least 9No. aircraft crashes in and within close proximity to the Area of Search during WWII, some of which may provide a constraint to development.

#### **Military defences**

• During WWII Anti-Aircraft (AA) and anti-invasion defences were established in and within close proximity to the Area of Search to counter bombing raids and the threat of invasion. These included AA searchlights and pillboxes.

For the majority of the Area of Search, evidence indicates that the risk of a UXO hazard being present owing to local military activity is low. There is credible evidence to conclude that at discrete locations, a moderate to high UXO hazard level may exist, especially within the boundaries of former or current military establishments such as airfields and defensive installations.



### RECOMMENDATIONS

#### Avoidance

Where possible, the proposed route corridor options should be diverted around the identified UXO hazard constraints.

#### **UXO Desk Study and Risk Assessment**

Once a preferred route option(s) has been selected, it is recommended that a detailed UXO desk study is commissioned to confirm the UXO hazard level along the route.

#### **Risk mitigation plan**

Where a potential UXO hazard is identified by the desk study and risk assessment, UXO risk mitigation measures will be recommended for the intended types of development and common working practices.

Non-intrusive geophysical surveys can be undertaken to further delineate the potential UXO hazard along the preferred route options, whilst also identifying other buried hazards and features such as archaeology, changes in ground conditions, buried obstructions and utilities.

#### What do I do next?

If you have any questions or wish to discuss recommendations, contact us and we can help.



If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If the boundary of the Area of Search changes, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.



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# Accompanying GIS Data

P14931-24-R1-MAP01-A (UXO Desk Study & Constraints Assessment)



#### ABBREVIATIONS

AA	Anti-Aircraft
ALARP	As Low As Reasonably Practicable
ΑΡ	Anti-Personnel
ARP	Air Raid Precaution
AXO	Abandoned Explosive Ordnance
BGS	British Geological Survey
CIRIA	Construction Industry Research and Information Association
DCLG	Department of Communities and Local Government
EO	Explosive Ordnance
EOC	Explosive Ordnance Clearance
EOR	Explosive Ordnance Reconnaissance
ERW	Explosive Remnants of War
ESA	Explosive Substances and Articles
HAA	Heavy Anti-Aircraft
HE	High Explosive
HER	Historic Environment Record
IB	Incendiary Bomb
IWM	Imperial War Museum
LAA	Light Anti-Aircraft
MoD	Ministry of Defence
MU	Maintenance Unit
NARA	National Archives & Records Administration
NCAP	National Collection of Aerial Photography
OB	Oil Bomb
OSNGR	Ordnance Survey National Grid Reference
PM	Parachute Mine
RAF	Royal Air Force
RE	Royal Engineers
SAA	Small Arms Ammunition
USAAF	United States Army Air Force
UXAA	Unexploded Anti-Aircraft
UXB	Unexploded Bomb
UXO	Unexploded Ordnance
WO	War Office
WWI	World War One
WWII	World War Two
ZAA	Rocket Anti-Aircraft



# **UXO DESK STUDY & CONSTRAINTS ASSESSMENT**

**Please read:** Zetica has colour coded each paragraph. Paragraphs with black text on a white background provide Area of Search-specific information or information specifically researched as part of this project.

Boxed paragraphs in a dark green text with a green background provide general information and, where appropriate, links to online resources giving further detail. These are all available at <u>www.zeticauxo.com</u>. If you cannot gain access to these resources, Zetica can forward them on request.

#### **1** INTRODUCTION

#### 1.1 Project outline

Zetica Ltd was commissioned by Stantec to carry out a detailed Unexploded Ordnance (UXO) Desk Study and Constraints Assessment for an area of approximately 2,216 hectares (ha) in the vicinity of Long Stratton, Hempnall, and Woodton, in South Norfolk (the 'Area of Search').

The aim of this report is to gain a fair and representative view of the UXO hazard constraints for the Area of Search in accordance with the Construction Industry Research and Information Association (CIRIA) C681 'Unexploded Ordnance (UXO), a Guide for the Construction Industry'.

It should be noted that some military activity providing a source of UXO hazard constraint may not be recorded and therefore there cannot be any guarantee that all UXO hazard constraints affecting the Area of Search have been identified in this report.

This report is intended to provide 'high level' information of potential UXO hazard constraints as a result of military activity within the defined Area of Search. The UXO hazard constraints identified within the defined Area of Search and described in this report are based on the experience of Zetica Ltd for other military establishments elsewhere in the UK.

The actual activities on any establishment will vary and further, more detailed study will be required during the subsequent stages of the proposed route design and construction process where the proposed route options actually impacts on these hazards.

At this stage, the UXO hazard ranking is indicative only. The hazard level of a potential source of UXO hazard can be further determined as part of a detailed desk study once route selection has been completed.

Where appropriate, this hazard assessment includes:

- Likelihood of ordnance being present.
- Type of ordnance (size, filling, fuze mechanisms).
- Quantity of ordnance.
- Potential for live ordnance.
- Probable location.
- Ordnance condition.

It should be noted that some military activity providing a source of UXO hazard may not be recorded and therefore there cannot be any guarantee that all UXO hazards affecting the Area of Search have been identified in this report.

#### **1.2** The Area of Search

The Area of Search comprises approximately 2,216 hectares (ha) in South Norfolk, as defined by the following Ordnance Survey National Grid References (OSNGRs):



North: TM 279983 (Brooke)

West: TM 165890 (Monlton St. Michael)

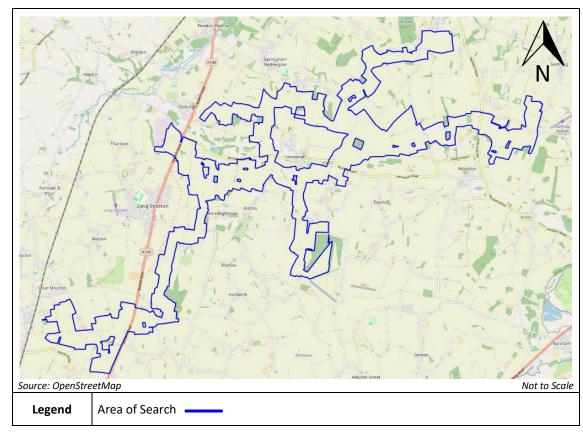
Centre: TM 254951 (North Hempnall)

East: TM 312956 (Seething)

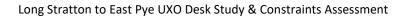
South: TM 182874 (Tivetshall St Margaret)

The areas referred to in this report are shown on P14931-24-R1-MAP01-A. Specific locations within the Area of Search are referred to by geographic local names and by approximate OSNGRs where appropriate.

Figure 1 is a location map of the Area of Search and Plate 1 is a recent satellite image of the Area of Search.

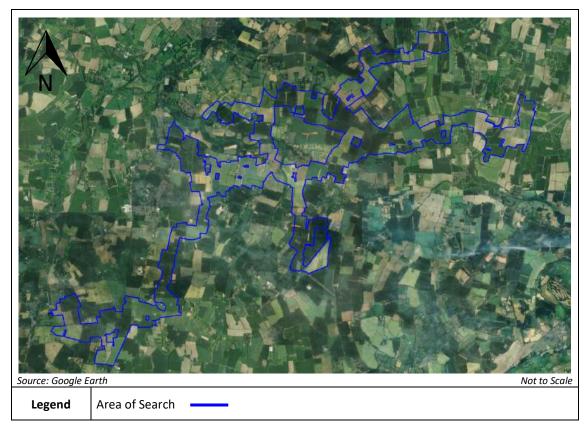


#### Figure 1 Map of the Area of Search





#### Plate 1 Recent satellite image of the Area of Search





#### 2 RESEARCH

#### 2.1 Sources of information

Zetica Ltd researched the World War One (WWI)/World War Two (WWII) bombing and military history of the Area of Search and its surrounding area using a range of information sources. The main sources of information are detailed in the following sections and referenced at the end of this report.

#### 1.2.1 Zetica Ltd records

Zetica Ltd's in-house records were consulted, including the Zetica Ltd bomb risk maps (http://zeticauxo.com/downloads-and-resources/risk-maps/), previous requests for information from government bodies, reference books, and archive materials from past work in the region.

Relevant documents have been cited in the bibliography of this report.

#### 1.2.2 Historical records, maps, and drawings

Numerous reference documents including historical maps, aerial photographs and drawings have been consulted from sources such as the National Archives, the US National Archives & Records Administration (NARA), the Imperial War Museum (IWM), Historic England, National Collection of Aerial Photography (NCAP), the Defence of Britain Project, the Royal Air Force (RAF) Museum), the Airfield Research Group, the American Air Museum, The Pillbox Study Group, The Second World War Experience Centre, the Society for Army Historical Research, Subterranea Britannica, The UK Fortifications Club, and relevant archaeological bodies.

The British Geological Survey (BGS) was consulted for borehole information.

#### 1.2.3 Local records

Norfolk County Council, Norfolk Record Office, local historical groups, local newspapers, and the Norfolk Historic Environment Record (HER) were consulted for records.

#### 2.2 Data confidence level

In general, there is a high level of confidence in the researched information sources used for this report. Further detail is given in the text of the report where appropriate.

Definitions of data confidence level				
Data Confidence Level		Definition		
	Low	There are very few sources of information, and/or those available are lacking in detail.		
	Moderate	There is a limited range of available sources of information, a key source of information is missing, and/or some sources may be contradictory or lacking in detail.		
✓	High	There is a wide range of available sources of information, which are detailed and corroborate each other.		



#### 3 MILITARY ACTIVITY

The following sections outline the recorded military activity in and within close proximity to the Area of Search. The potential UXO hazard constraints from WWI and WWII bombing are detailed in Section 4.

#### 3.1 Military airfields

For further information on military airfields, and the potential UXO hazards associated with them, follow the link below:

Military Airfields

2No. military airfields have been identified within the Area of Search. These are described below.

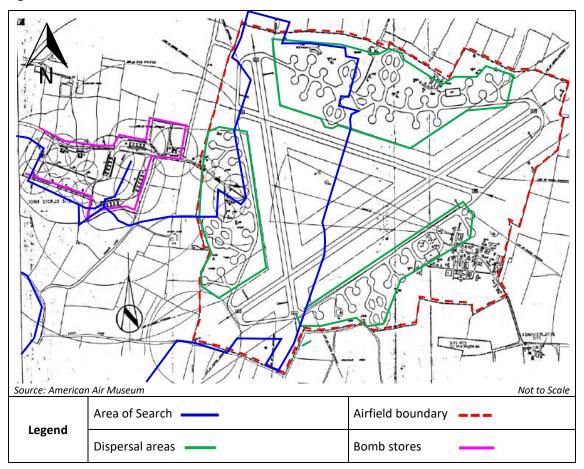
#### 3.1.1 RAF Seething/United States Army Air Force (USAAF) Station 146

Between 1942 and 1943, RAF Seething was established on land encroaching onto the eastern part of the Area of Search (TM 308954).

The airfield comprised 3No. concrete runways, 17No. bomb and ammunition stores, 2No. T-2 hangars, and several dispersed administrative areas.

On the 1<sup>st</sup> December 1943, RAF Seething was handed to the USAAF. It was designated USAAF Station 146 and used by the 448<sup>th</sup> Bombardment Group, flying the Consolidated B-24 Liberator heavy bomber aircraft.

Figure 2 is a plan of USAAF Station 146, dating from November 1944. Several airfield features have been identified.



#### Figure 2 Plan of USAAF Station 146, November 1944

P14931-24-R1-A



In June 1945, the 448<sup>th</sup> Bombardment Group left USAAF Station 146 and the station was handed back to the RAF

In late 1945, RAF Seething accommodated Nos. 53 and 94 Maintenance Unit (MU).

By 1946, RAF Seething had closed. The majority of the airfield reverted to agricultural use. The eastern section, including part of the main runway, became Seething Airfield. It is used by the Waveney Flying Group.

#### 3.1.2 RAF Hardwick/USAAF Station 104

Between 1941 and 1942, RAF Hardwick was established on land encroaching onto the southern part of the Area of Search (TM 246912).

The airfield comprised 3No. concrete runways, 3No. T-2 hangars, bomb stores, and several dispersed accommodation areas.

In September 1942, RAF Hardwick was handed to the USAAF. It was designated USAAF Station 104 and used by the 310<sup>th</sup> Bombardment Group, flying the North American B-25 Mitchell medium bomber aircraft.

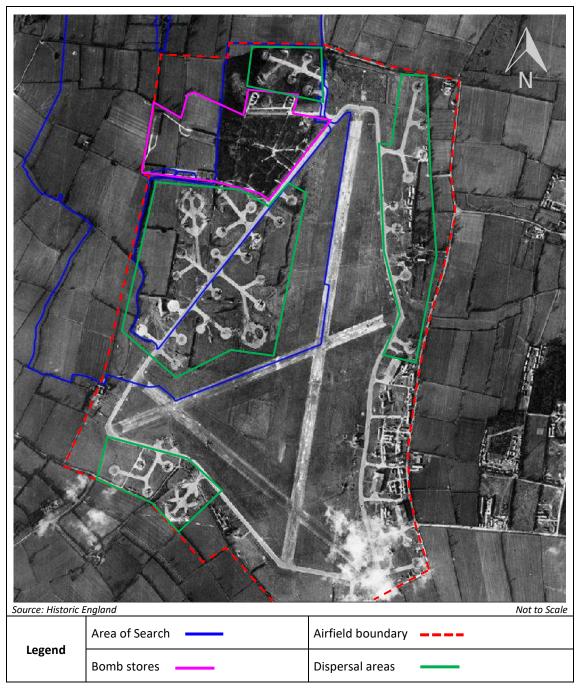
In December 1942, the 93<sup>rd</sup> Bombardment Group (Heavy) arrived at USAAF Station 104, flying Consolidated B-24 Liberator heavy bomber aircraft.

From the 7<sup>th</sup> November 1943, USAAF Station 104 served as Headquarters (HQ) for the 20<sup>th</sup> Combat Bombardment Wing of the 2<sup>nd</sup> Bomb Division.

Plate 2 is an aerial photograph dated the 2<sup>nd</sup> March 1944. Several airfield features have been identified.



Plate 2 Aerial photograph, 2<sup>nd</sup> March 1944



On the 25<sup>th</sup> June 1945, the airfield was returned to the RAF and reverted to RAF Hardwick. It was placed into care and maintenance status.

In 1962, RAF Hardwick closed, and the main airfield buildings and hangars were demolished. Some of the smaller buildings remain extant and are used by commercial businesses.

Military airfields provide a high UXO hazard constraint. Bomb stores and aircraft dispersal areas have been identified in the Area of Search, which both provide potential UXO hazards.

Airfields within the Area of Search are identified on the accompanying P14931-24-R1-MAP01-A.



#### 3.2 Aircraft crashes

For further information on military aircraft crashes, and the potential UXO hazards associated with them, follow the link below:

<u>Aircraft Crashes</u>

No WWI aircraft crashes have been identified in the Area of Search.

During WWII, at least 9No. aircraft crashed in and within close proximity to the Area of Search. Given the 2No. USAAF bomber command stations encroached onto the Area of Search (see Section 3.1), these crashes were predominantly bomber aircraft.

Some of the WWII crashes may have had live munitions on board, which could have scattered across a wide area. This would typically have comprised Small Arms Ammunition (SAA) for machine guns, and cannon shells for those aircraft arms with cannons. Some of the crashed aircraft may also have been carrying a bomb load, potentially resulting in Unexploded Bombs (UXBs) falling on or near the crash site.

Plate 3 is a photograph of a crashed B-24 Liberator bomber aircraft. The aircraft crashed on takeoff at USAAF Station 104 (see Section 3.1.2), potentially in the Area of Search, on the 3<sup>rd</sup> May 1944.



#### Plate 3 Photograph of crashed B-24 Liberator, 3<sup>rd</sup> May 1944

Post-WWII at least 1No. aircraft crashed in close proximity of the Area of Search. These crash sites were usually more thoroughly cleared and are less likely to have munitions on board that could remain undetected in the ground.

Table 1 (Appendix 1) includes known locations of aircraft crashes in and within close proximity of the Area of Search. These are also mapped on the accompanying P14931-24-R1-MAP01-A.



Aircraft crashes frequently occurred on take-off or landing from airfields, particularly during training. It should be assumed that numerous aircraft crashes occurred at military airfields (see Section 3.1). Given this, aircraft crashes that occurred on military airfields have been omitted from Table 1 and the accompanying P14931-24-R1-MAP01-A.

#### 3.3 Anti-invasion defences

For further information on military defences, and the potential UXO hazards associated with them, follow the links below:

- <u>Anti-Invasion Defences</u>
- Home Guard
- Mined Locations
- Mortar & Gun Emplacements
- Pillboxes

During WWII the Area of Search was under control of Eastern Command.

Defences in the area were concentrated around the extensive East Anglian coastline. The flat plains inland offered easy access to the industrial midlands. A dense network of defensive sites was created as part of the anti-invasion preparations, designed to interrupt and delay the progress of any invading force.

The Area of Search was located within between Sector 'D' and Sector 'B' of the 18<sup>th</sup> Division (Defence).

#### 3.3.1 Anti-Invasion defences

Due to Norfolk's vulnerability to invasion, an extensive network of stop lines was established. Stop lines were dense networks of defences, typically comprising fortifications such as pillboxes and coastal batteries. The majority of these fortifications were located along the coast, although many were established near prominent towns, such as Norwich, approximately 10km north of the Area of Search.

Anti-invasion defences were used to protect strategically significant areas, including roads and bridges. Defensive structures such as pillboxes, Anti-Tank (AT) obstacles, and spigot mortar emplacements were common anti-invasion defences.

Figure 3 is a map showing the network of stop lines in Eastern Command, in the vicinity of the Area of Search, 1No. of which encroached onto the southwestern part of the Area of Search.



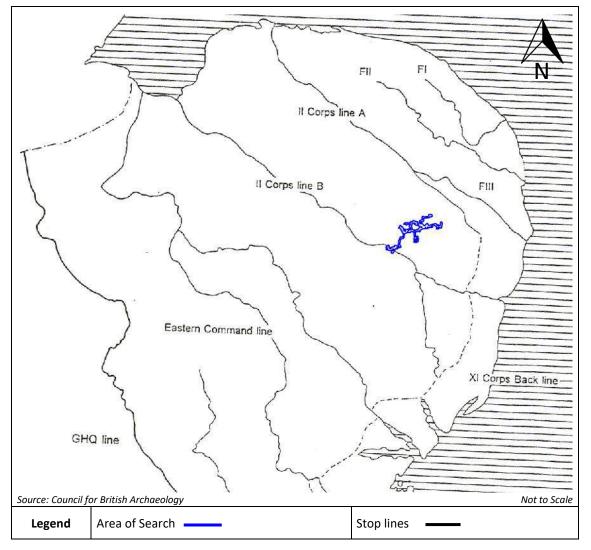


Figure 3 Map of stop lines in the vicinity of the Area of Search

No records have been found to suggest that any pillboxes, AT obstacles, or spigot mortar emplacements were established in the Area of Search. Records have been found to indicate that 1No. pillbox was established at Rookery Farm (TM 190874) approximately 0.4km east of the Area of Search.

Pillboxes typically had associated munitions caches and were often manned by the Home Guard (see Section 3.3.2).

Table 2 (Appendix 1) includes known anti-invasion defence structures in and within close proximity of the Area of Search. These are also mapped on the accompanying P14931-24-R1-MAP01-A.

#### 3.3.2 Home Guard and Auxiliary Units

Stop lines and anti-invasion defences were often manned by members of the Home Guard, backed up by regular Army troops wherever possible. The troops were issued with 'No Withdrawal' orders.

During WWII, units of the 3<sup>rd</sup> Norfolk Battalion Home Guard were active in the vicinity of the Area of Search.



The Home Guard carried out training exercises, using both liver munitions and dry training aids (blanks and pyrotechnics). No records of Home Guard training taking place in or within the vicinity of the Area of Search have been found.

Identified Home Guard battalions known to have been in operation in the vicinity of the Area of Search are listed in Table 3 (Appendix 1).

#### 3.4 Anti-Aircraft (AA) defences

For further information on military defences, and the potential UXO hazards associated with them, follow the links below:

- Anti-Aircraft Guns
- Barrage Balloons
- Bombing Decoys

#### 3.4.1 AA batteries and searchlights

During WWI and WWII there were no AA batteries recorded in the Area of Search.

1No. AA Searchlight was recorded at Morningthorpe (TM 219918), approximately 0.6km east of the Area of Search. Searchlight emplacements typically consisted of a small ring-ditch to provide shelter during an air raid, a predictor emplacement for calculating the range and height of targets, an Light AA (LAA) machine gun pit, a generator, and hutted accommodation.

Plate 4 is an aerial photograph dating from 1946. The searchlight at Morningthorpe has been identified.

#### Plate 4 Aerial photograph of Morningthorpe searchlight, 1946

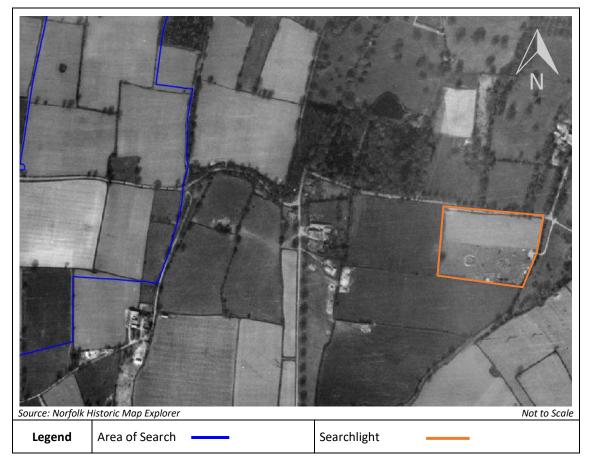




Table 4 (Appendix 1) includes known locations of AA defences in and within close proximity to the Area of Search. These are also mapped on the accompanying P14931-24-R1-MAP01-A.

#### 3.4.2 Bombing decoys

During WWII 1No. bombing decoy was located within the Area of Search. Bombing decoys were designed to draw enemy aircraft away from towns and other strategically important targets and would often have associated LAA gun defences.

1No. 'Q-Type' bombing decoy was established at Hempnall, centred on TM 255952, in the Area of Search. It was designated Q172a and active between 18<sup>th</sup> June 1942 and 12<sup>th</sup> August 1942. The decoy was designed to replicate an active airfield, to deflect bombing from nearby RAF Hardwick and RAF Seething (see Section 3.1).

Plate 5 is an aerial photograph of Hempnall, dating from 1946.

The location of the decoy has been identified, although no features associated with the decoy can be seen. It is considered likely that these were removed after WWII.

# Surve: Norfalk Historic Map Explorer Norta Scale Legend Area of Search Decoy

#### Plate 5 Aerial photograph of Hempnall decoy, 1946

Successful bombing decoys can provide a high UXO hazard due to the possibility of UXBs located at depth. No records have been found to indicate the decoy in the Area of Search was successful.

Known bombing decoys in and in the vicinity of the Area of Search are mapped on the accompanying P14931-24-R1-MAP01-A.



#### 4 BOMBING

#### 4.1 WWI bombing

For further information on WWI bombing in the UK, and the potential UXO hazard associated with it, use the following link.

WWI Bombing

During WWI an estimated 9,000No. German bombs were dropped over Britain. It was the first time that strategic aerial bombing had been used, initially from Zeppelin airships.

No records of WWI bombing in the Area of Search have been found.

#### 4.2 WWII bombing

For further information on WWII bombing in the UK, and the potential UXO hazard associated with it, see Appendix 2.2 or use the following link.

WWII Bombing

Details of WWII bombing in the vicinity of the Area of Search are provided in the following sections.

#### 4.2.1 Bombing in South Norfolk

Given its predominantly rural nature, Norfolk was generally subjected to few significant bombing raids during WWII and bombing densities for the counties were typically low. Some areas of Norfolk, such as Norwich approximately 10km north of the Area of Search, and Great Yarmouth approximately 24km northeast of the Area of Search, were deliberately targeted due to their important industrial and port facilities.

Operational airfields were also targeted by the Luftwaffe. Records for heavy raids on many of the region's airfields were suppressed until after WWII.

The areas surrounding the Area of Search were subjected to the occasional 'tip and run' bombing raids and aircraft jettisoning bombs on their return flights from strategically important targets further inland.

Given the number of USAAF airfields in and within close proximity to the Area of Search, many US aircraft jettisoned their bombs before returning to their airfields, some of which were recorded in and within close proximity of the Area of Search.

It should be noted that although rural areas were bombed less heavily than urban districts, Air Raid Precaution (ARP) records may under-represent the number and frequency with which bombs fell in rural areas.

#### 4.2.2 Strategic targets

The presence of strategic targets significantly increased the likelihood of bombing within the local area. Airfields, docks, industrial facilities, transport infrastructure and anti-invasion defences were all targeted by Luftwaffe bombers.

During WWII, the Area of Search was rural in nature, with few strategic targets. RAF Hardwick and RAF Seething (see Section 3.1) were the only strategic targets in and within close proximity to the Area of Search.

Plate 6 is a Luftwaffe target photograph of RAF Hardwick (outlined in red) dating from June 1942.



Plate 6 Luftwaffe target photograph of RAF Hardwick, June 1942

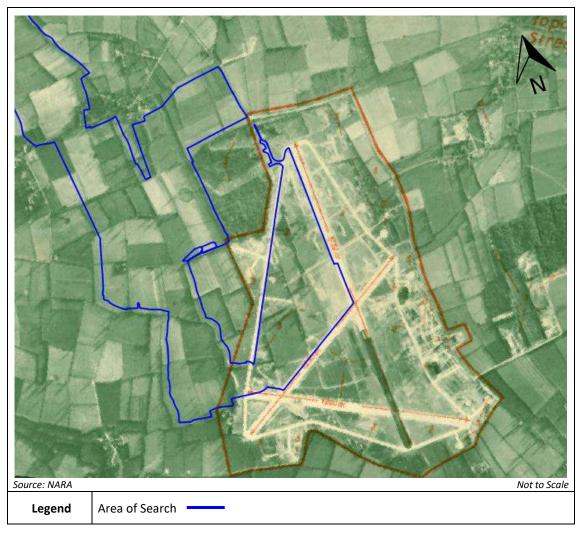
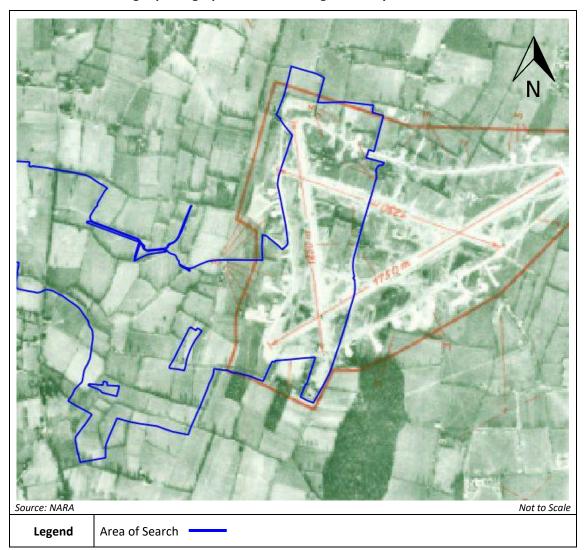


Plate 7 is a Luftwaffe target photograph of RAF Seething (outlined in red) dating from February 1943.





#### Plate 7 Luftwaffe target photograph of RAF Seething, February 1943

#### 4.2.3 Bombing densities and incidents

Table 5 (Appendix 1) gives details of the overall bombing statistics recorded for the Local Authority (LA) Districts of the Area of Search. These were categorised as Rural Districts (RD), Urban Districts (UD), Municipal Borough (MB), Metropolitan Boroughs (MetB) and County Boroughs (CB). WWII bomb density levels are defined below:

<5 bombs per 405ha is a Very Low regional bombing density.

5-15 bombs per 405ha is Low.

15-50 bombs per 405ha is Moderate.

50-250 bombs per 405ha is High.

>250 bombs per 405ha is Very High.

Official UK bombing statistics have been compiled from both British and German sources. There were differences in the way the figures were originally reported and collated which has led to discrepancies in the summary data.



Note that Table 5 excludes the figures for Incendiary Bombs (IBs). Discrepancies between the below list and other records, such as bomb clearance records, demonstrate that this data is likely to under-represent actual bombing.

An indicative list of the more significant air raid incidents in and within close proximity to the Area of Search given below.

#### 6<sup>th</sup> August 1941

10No. High Explosive (HE) bombs fell on Wood Green Farm, Long Stratton, in the Area of Search.

#### 9<sup>th</sup> May 1944

7No. 1000lb HE US bombs were jettisoned on open ground near Lime Tree Farm, in the Area of Search. These were recorded as Unexploded Bombs (UXBs). The UXBs were taken to RAF Hardwick and disposed of.

#### 30<sup>th</sup> May 1944

1No. 500lb HE US bomb was jettisoned on open land near Hardwick, in the Area of Search. This was recorded as a UXB and taken to RAF Tibbenham, approximately 1.6km east of the Area of Search, for disposal.

16No. HE US bombs jettisoned on open ground near Sneath Common, approximately 0.4km west of the Area of Search. These were recorded as UXBs and taken to RAF Tibbenham for disposal.

Note that air raid incident reports do not always give precise details of the bombs which fell, often only indicating in which area they fell.

More detailed ARP and LA records would be included as part of a site-specific UXO Desk Study and Risk Assessment.

In general, the WWII bombing densities across the Area of Search were low and it is considered unlikely that a significant UXB hazard exists for the majority of the area. There is the potential for discrete areas to have had a higher WWII bombing density than the regional averages, particularly around military establishments. These areas would be more precisely defined in a detailed UXO Desk Study and Risk Assessment for the chosen route.

#### 4.2.4 Abandoned bombs

No records have been found indicating that any officially abandoned bombs are located in the Area of Search.



#### 5 POST-WWII EXPLOSIVE ORDNANCE CLEARANCE (EOC) ACTIVITIES

Based on data from 1939 to 1945, War Office statistics indicate that 200,195No. HE bombs exploded within Great Britain. Additionally, 25,195No. HE bombs (approximately 11%) were recorded as UXBs. However, records from the Royal Engineers (RE) who were responsible for bomb disposal at the time indicate that by 27<sup>th</sup> February 1946, more than 45,000No. UXBs were disposed of.

On average, 8.5% of UXBs later self-exploded. In some cases, the bombs had delayed action fuzes or were never intended to explode, their purpose being to cause inconvenience and fear. Given the discrepancy in records and the fact that UXBs are still being found unexpectedly, it is clear that the original figures are understated and provide only an approximation of the number of potential UXBs in the UK.

War Office (WO) statistics also show that between October 1940 and May 1941 most UXBs (93%) were either 50kg or 250kg. It should be noted that details of the recovery and size of the UXB were not always accurately reported.

The larger WWII UXBs are often difficult to recover due to both penetration depths and the presence of two or more fuzes, combined with more sensitive fillings of explosive mixtures including Amatol and Trialen.

#### 5.1 EOC tasks

Zetica holds no records of post-WWII EOC tasks having taken place on or in the vicinity of the Area of Search.



#### 6 UXO HAZARD ASSESSMENT

#### 6.1 UXO hazard level

Definitions of UXO hazard constraint level for the Area of Search			
Hazard Level	Definition		
Low	It is considered unlikely that UXO will be encountered within the footprint of the constraint.		
Moderate	Ordnance will have been stored or used within the footprint of the constraint and the potential for UXO to remain cannot be discounted.		
High	There is an elevated probability that UXO will be encountered within the footprint of the constraint.		

A number of potential UXO hazards which may present a constraint to the Area of Search have been identified. These are shown in Figure 4, also provided as the accompanying P14931-24-R1-MAP01-A.

For the majority of the Area of Search, evidence indicates that the risk of a UXO hazard being present due to local military activity is low. There is credible evidence to conclude that at discrete locations, a moderate to high UXO hazard level may exist, particularly within the boundaries of former or current military establishments.

As with all locations, the potential presence of UXO as a result of enemy action, unauthorised disposal, or unrecorded military activity cannot be totally discounted.

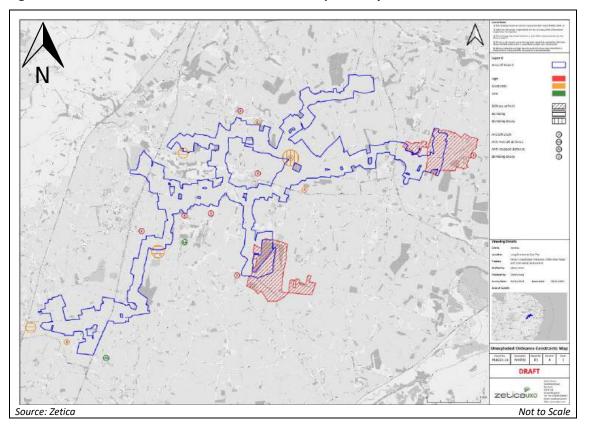


Figure 4 UXO hazard constraints in and within close proximity of the Area of Search



#### 7 RECOMMENDATIONS

#### Avoidance

Where possible, the proposed route corridor options should be diverted around the identified UXO hazard constraints.

#### **UXO Desk Study and Risk Assessment**

Once a preferred route option(s) has been selected, it is recommended that a detailed UXO desk study is commissioned to confirm the UXO hazard level along the route.

#### Risk mitigation plan

Where a potential UXO hazard is identified by the desk study and risk assessment, UXO risk mitigation measures will be recommended for the intended types of development and common working practices.

Non-intrusive geophysical surveys can be undertaken to further delineate the potential UXO hazard along the preferred route options, whilst also identifying other buried hazards and features such as archaeology, changes in ground conditions, buried obstructions and utilities.

#### What do I do next?

If you have any questions or wish to discuss recommendations, contact us and we can help.



If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If the boundary of the Area of Search changes, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.



#### **APPENDICES**

#### **Appendix 1 Summary Tables**

#### Table 1 Aircraft crashes in and within close proximity to the Area of Search

Grid Reference	Location	Туре	Serial No.	Date
TM 261940	Road Green Farm, Hempnall	Mosquito BIV	DZ587	11-1943
TM 226929	Old Hall Farm, Fritton	B-24 Liberator	41-29116	01-1944
TM 243945	Hempnall	B-24 Liberator	41-24192	02-1944
TM 175879	Tivetshall	Lightning P-38J	42-67895	03-1944
TM 201922	St Michael's Church, Long Stratton	B-24 Liberator	41-29463	01-04-1944
TM 217928	North Morningthorpe	B-24 Liberator	N/A	08-05-1944
TM 237907	Shelton Green	B-24 Liberator	42-50597	12-1944
TM 235968	Saxlingham	B-24 Liberator	44-10577	04-1945
TM 324955	Fields off Airfield Lane	Flying Fortress	N/A	17-04-1945
	Post WWII			
TM 242964	Saxlingham Green	Mosquito NF36M	RK995	01-1948

#### Table 2 Anti-invasion defences in and within close proximity to the Area of Search

Grid Reference	Туре	Location
TM 190874	Pillbox	Rookery Farm

#### Table 3 Home Guard battalions in and within close proximity to the Area of Search

Battalion	Location
3 <sup>rd</sup> Norfolk Battalion Home Guard	Norwich

#### Table 4 WWII AA searchlights in and within close proximity to the Area of Search

Grid Reference	Location	
TM 219918	Morningthorpe	

#### **Table 5 Bombing statistics**

	Bombs Recorded				
Area	High Explosive	Parachute Mines	Other	Total	Bombs per 405ha (1000 acres)
Forehoe & Henstead RD	425	24	2	451	6.4
Lodden RD	262	7	1	270	4.5
Depwade RD	309	0	5	314	3.9



#### Appendix 2 Glossary and definitions

Abandoned Explosive Ordnance (AXO)	Explosive ordnance that has not been used during an armed conflict, that has been left behind or disposed of by a party to an armed conflict, and which is no longer under control of that party. Abandoned explosive ordnance may or may not have been primed, fuzed, armed or otherwise prepared for use.
Demil	Derived from the term 'Demilitarisation', demil refers to the break down and the recycling or disposal of ordnance components.
Detonation	The high-speed chemical breakdown of an energetic material producing heat, pressure, flame, and a shock wave.
Device	Any component, sub-assembly or completed ordnance, which may or may not have an explosive risk. It can apply to detonators, primers, gaines, fuzes, shells, or bombs.
Explosive	Compounds forming energetic materials that under certain conditions chemically react, rapidly producing gas, heat, and pressure. These are extremely dangerous and should only be handled by qualified professionals.
Explosive Ordnance (EO)	All munitions containing explosives, nuclear fission or fusion materials, and biological and chemical agents. This includes bombs and warheads, missiles, artillery, mortar, rocket, Small Arms Ammunition, mines, torpedoes, depth charges, pyrotechnics, cluster bombs and dispensers, cartridge and propellant devices, electro-explosive devices, clandestine and improvised explosive devices, and all related items/components which are explosive in nature.
Explosive Ordnance Clearance (EOC)	The operation of ordnance detection, investigation, identification, and removal, with Explosive Ordnance Disposal being a separate operation.
Explosive Ordnance Disposal (EOD)	The detection, identification, on-site evaluation, rendering safe, recovery, and final disposal of Unexploded Ordnance.
Explosive Ordnance Reconnaissance (EOR)	The detection, identification, and on-site evaluation of Unexploded Ordnance before Explosive Ordnance Disposal.
Explosive Remnants of War (ERW)	Unexploded Ordnance and Abandoned Explosive Ordnance, excluding landmines.
Explosive Substances & Articles (ESA)	Explosive substances are solid or liquid substances (or a mixture) which are either: capable by a chemical reaction of producing gas at a speed, temperature, and pressure to cause damage to the surroundings; or designed to produce an effect by heat, light, sound, gas, or smoke (or a combination) as a result of a non-detonative, self-sustaining, exothermic reaction. One or more explosive substances form an explosive article.



- Fuze The part of an explosive device that initiates the main explosive charge to function. In common usage, the word fuze is used indiscriminately, but when being specific (and especially in a military context), fuze is used to mean a more complicated device, such as a device within military ordnance.
- **Gaine** Small explosive charge that is sometimes placed between the detonator and the main charge to ensure ignition.
- **Geophysical survey** A range of methods that can be used to detect objects or identify ground conditions without the need for intrusive methods (such as excavation or drilling). This is particularly suited to ordnance, as disturbance of ordnance is to be avoided where possible.
- **High Explosive (HE)** Secondary explosives (commonly known as HE) make up the main charge or filling of an ordnance device. They are usually less sensitive than primary explosives. Examples of secondary explosives are Nitro-glycerine (NG), Trinitrotoluene (TNT), Amatol (Ammonium nitrate and TNT), gunpowder, and Cyclotrimethylenetrinitramine (RDX).
- Land ServiceItems of ordnance thrown, propelled, or placed during land warfare, toAmmunition (LSA)include grenades, mortar bombs, projectiles, rockets, and landmines.
- Munition The complete device charged with explosives, propellants, pyrotechnics, initiating composition, or nuclear, biological, or chemical material for use in military operations, including demolitions. This includes those munitions that have been modified for use in training, ceremonial, or non-operational purposes.

These fall into three distinct categories: inert (contain no explosives), live (contain explosives and have not been fired), and blind (have fired but failed to function as intended.)

- Primary ExplosiveExplosives used to initiate less sensitive explosives and usually<br/>extremely sensitive to friction, heat, and pressure. Primary explosives<br/>are commonly found in detonators. Examples of primary explosives are<br/>lead azide, lead styphnate, and mercury fulminate.
- PropellantsProvide ordnance with the ability to travel in a controlled manner and<br/>deliver the ordnance to a predetermined target. Propellants burn<br/>rapidly producing gas, pressure, and flame. Although usually in solid<br/>form they can be produced in liquid form. Examples of propellants are<br/>ballistite, often in flake form, and cordite, often in string form.
- PyrotechnicAn explosive article or substance designed to produce an effect by heat,<br/>light, sound, gas, or smoke (or a combination), as a result of non-<br/>detonative, self-sustaining, exothermic chemical reactions.
- Small ArmsProjectiles around 12mm or less in calibre and no longer than<br/>approximately 100mm. They are fired from a variety of weapons,<br/>including rifles, pistols, shotguns, and machine guns.



Unexploded Anti- Aircraft (UXAA) Shell	Ordnance containing High Explosives, although they can also contain pyrotechnic compounds that produce smoke. They ranged from 2" to 5.25" calibre, although most common were 3.7" and 4.5" HE shells.
Unexploded Bomb (UXB)	A common term for unexploded air-dropped munitions.
Unexploded Ordnance (UXO)	Explosive ordnance that has been primed, fuzed, armed, or prepared for use and subsequently fired, dropped, launched, projected, or placed in such a manner as to present a hazard to operations, persons, or objects, and remains unexploded either by malfunction or design.
V1	The Vergeltungswaffe-1, also designated Fieseler Fi 103/FZG-76, known colloquially in English as the Flying Bomb, Pilotless Aircraft, Buzz Bomb, or Doodlebug, was the first guided missile used in WWII and the forerunner of today's cruise missile.
V2	The Vergeltungswaffe 2 ('Reprisal Weapon 2') was the first ballistic missile. It was used primarily against Belgian and British targets during the later stages of WWII. It was also the first man-made object launched into space, during test flights in 1944.



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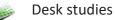


#### **Appendix 4 General Notes**

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Unexploded ordnance risk assessments and risk mitigation

Utility services detection

Environmental and engineering geophysical surveys

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Intrusive ground investigations

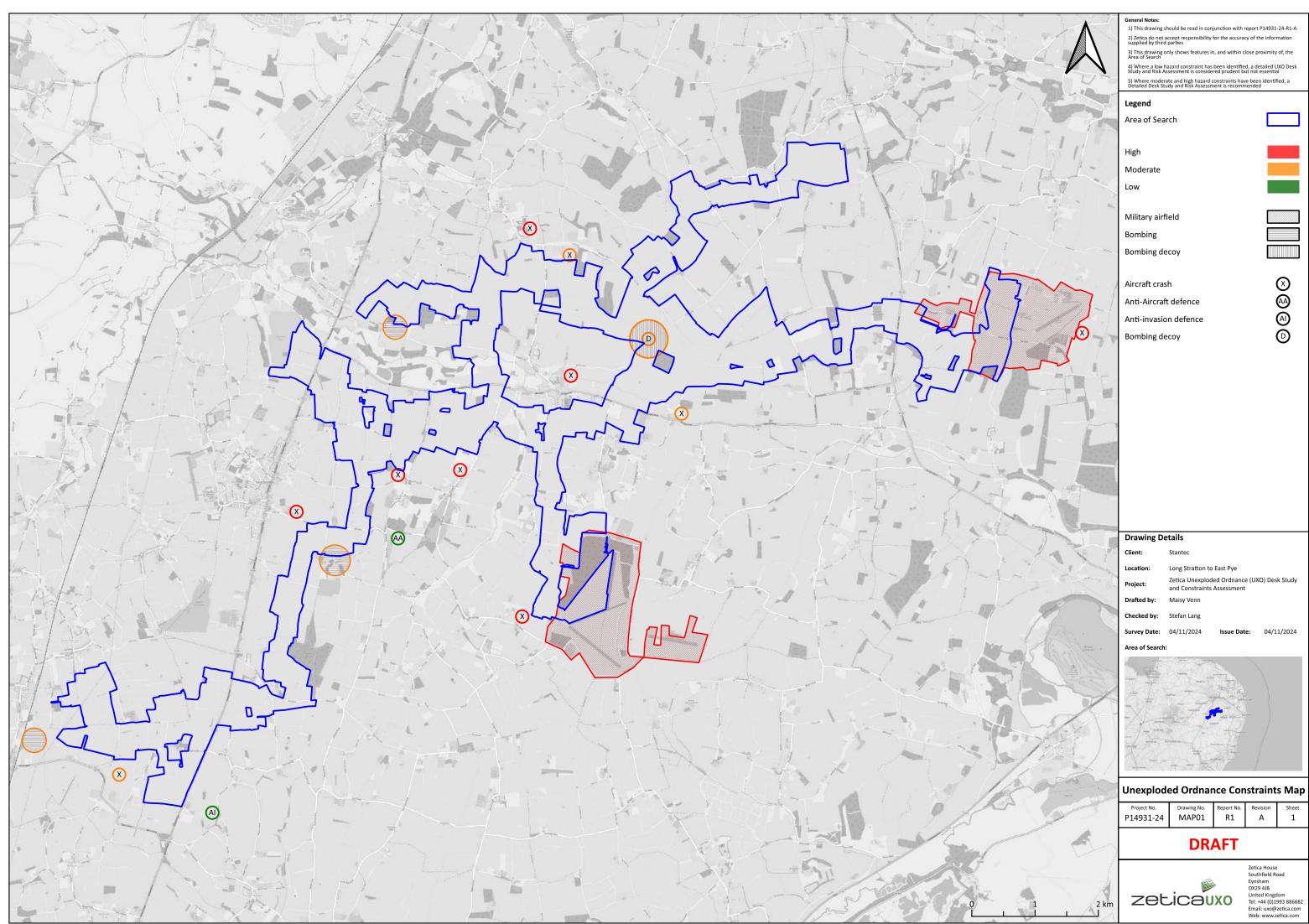
More details are available at

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2) Zetica do not a supplied by third	ccept responsibility	for the accuracy of t	he information
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		constraints have bee nent is recommende	
Legend			
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Drawing De	tails		
Client:	Stantec		
Location:	Long Stratton to		
Project:	Zetica Unexplod and Constraints	ed Ordnance (UX Assessment	U) Desk Study
Drafted by:	Maisy Venn		
Checked by:	Stefan Lang		
Survey Date:	04/11/2024	Issue Date:	04/11/2024

# Annex 7 Tables of Estimated Risk

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	$\checkmark$	√	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Human Health -		Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
On-Site	4	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
		Inhalation of vapours/gases – outdoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Minor	Unlikely	Very Low
		Inhalation of vapours/gases - indoor	0	$\checkmark$	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	<ul> <li></li> </ul>	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	X	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
Human Health Off-	- 5	Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
Site	5	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
		Inhalation of vapours – outdoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Mild	Unlikely	Very Low
		Inhalation of vapours - indoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Mild	Unlikely	Very Low
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Groundwater	1	Leaching	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Minor	Low	Very Low
(Resource)	4	Migration via natural or anthropogenic	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Minor	Low	Very Low
Groundwater	2	Leaching	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Minor	Low	Very Low
(Biodiversity)		Migration via natural or anthropogenic	1	$\checkmark$	$\checkmark$	$\checkmark$	X	$\checkmark$	x	Minor	Low	Very Low
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	<ul> <li></li> </ul>	X	N/A	N/A	N/A
(Resource)	0	Indirect via recharge from groundwater (hydraulic flow)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(1100001100)		Deposition of wind blown dust	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	X	N/A	N/A	N/A
(Biodiversity)		Indirect via recharge from groundwater (hydraulic flow)	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	x	Minor	Unlikely	Very Low
(,),		Deposition of wind blown dust	1	$\checkmark$	√	$\checkmark$	✓	✓	x	Minor	Unlikely	Very Low
Property -		Direct contact / Damage due to vibration, change in groundwater level etc.	1	$\checkmark$	$\checkmark$	$\checkmark$	x	x	x	Minor	Unlikely	Very Low
Buildings		Explosion due to gas migration via natural / anthropogenic	0	$\checkmark$	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	1	$\checkmark$	~	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
Terrestrial		Indirect - through watering	1	$\checkmark$	√	$\checkmark$	x	$\checkmark$	x	Minor	Unlikely	Very Low
Ecology	4	Inhalation of gases/vapours or particulates/dust by animals	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	N/A	N/A	N/A
		Ingestion of of vegetation / water / soil by animals	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
Geologically Designated SSSI		Direct deposition of particles / dust - wind blown or flood	0	√	$\checkmark$	✓	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
and RIGS		Indirect - through watering	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

	Client			
				Eas
Stantec	Island Green Power			MMARISING POLL Sites and CRCs wi
Caversham Bridge House, Waterman Place, Rea	ding, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499	HAZARD CLASSIFICATION	1	TH

EPH = Extractable hydrocarbons

PAHs = Poly Aromatic Hydrocarbons

Note For Metals there is an Inhalation pathway if Mercury is present Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

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# ast Pye Solar Project

# LLUTANT LINKAGES AND RISK ESTIMATION with no identified on-Site PSCs (CONSTRUCTION PHASE)

# THE POTENTIAL CONTAMINANTS OF CONCERN ARE :-Agrichemical residues

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
		Ingestion of fruit or vegetable leaf or roots	0	✓	$\checkmark$	✓	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Minor	Unlikely	Very Low
Human Health -	4	Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Minor	Unlikely	Very Low
On-Site	4	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	Minor	Unlikely	Very Low
		Inhalation of vapours/gases – outdoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Minor	Unlikely	Very Low
		Inhalation of vapours/gases - indoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Minor	Unlikely	Very Low
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
		Dermal absorption via waters (swimming / showering)	0	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	$\checkmark$	X	X	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	X	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
Human Health Off-	- 5	Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Mild	Unlikely	Very Low
Site	5	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Mild	Unlikely	Very Low
		Inhalation of vapours – outdoor	1	$\checkmark$	X	x	x	x	$\checkmark$	Mild	Unlikely	Very Low
		Inhalation of vapours - indoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Mild	Unlikely	Very Low
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Mild	Unlikely	Very Low
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Groundwater	4	Leaching	1	$\checkmark$	✓	$\checkmark$	x	✓	x	Minor	Unlikely	Very Low
(Resource)		Migration via natural or anthropogenic	1	$\checkmark$	✓	$\checkmark$	x	✓	x	Minor	Unlikely	Very Low
Groundwater	2	Leaching	1	$\checkmark$	$\checkmark$	$\checkmark$	x	✓	x	Minor	Unlikely	Very Low
(Biodiversity)	-	Migration via natural or anthropogenic	1	$\checkmark$	✓	$\checkmark$	x	✓	x	Minor	Unlikely	Very Low
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	x	N/A	N/A	N/A
(Resource)	0	Indirect via recharge from groundwater (hydraulic flow)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(		Deposition of wind blown dust	0	$\checkmark$	✓	$\checkmark$	✓	✓ ✓	x	N/A	N/A	N/A
Surface Water		Direct runoff or discharges from pipes	0	✓	✓	$\checkmark$	<b>√</b>	$\checkmark$	X	N/A	N/A	N/A
(Biodiversity)	3	Indirect via recharge from groundwater (hydraulic flow)	1	✓ ✓	<u>√</u>	V	√ 	<i>√</i>	x	Minor	Unlikely	Very Low
		Deposition of wind blown dust	1	√	√	√	$\checkmark$	✓	X	Minor	Unlikely	Very Low
Property - Buildings	3	Direct contact / Damage due to vibration, change in groundwater level etc.	1	√	$\checkmark$	$\checkmark$	x	x	x	Minor	Unlikely	Very Low
Buildings		Explosion due to gas migration via natural / anthropogenic	0	$\checkmark$	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
Terrestrial		Indirect - through watering	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Minor	Unlikely	Very Low
Ecology	4	Inhalation of gases/vapours or particulates/dust by animals	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓ ✓	N/A	N/A	N/A
		Ingestion of of vegetation / water / soil by animals	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Minor	Unlikely	Very Low
Geologically Designated SSSI	0	Direct deposition of particles / dust - wind blown or flood	0	√	$\checkmark$	√	$\checkmark$	√	x	N/A	N/A	N/A
and RIGS	0	Indirect - through watering	0	~	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

	Client			
				Eas
Stantec	Island Green Power			MMARISING POLL Sites and CRCs wi
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PAHs = Poly Aromatic Hydrocarbons

Note For Metals there is an Inhalation pathway if Mercury is present Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

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# LLUTANT LINKAGES AND RISK ESTIMATION with no identified on-Site PSCs (CONSTRUCTION PHASE)

# THE POTENTIAL CONTAMINANTS OF CONCERN ARE :-Agrichemical residues

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		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	✓	✓	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	✓	X	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	✓	√	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	✓	✓	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Human Health -		Ingestion of soil/dust outdoors	1	√	√	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Likely	High
<b>On-Site</b>	4	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	√	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Likely	High
I		Inhalation of vapours/gases – outdoor	1	√	x	x	x	x	$\checkmark$	Medium	Likely	High
		Inhalation of vapours/gases - indoor	0	✓	x	x	x	x	$\checkmark$	N/A	N/A	N/A
I		Dermal absorption via direct contact with soil	1	✓	√		$\checkmark$	$\checkmark$	x	Medium	Likely	High
		Dermal absorption via waters (swimming / showering)	0	✓	√	✓	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	√	✓	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	✓	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	✓	✓	x	x	$\checkmark$	x	N/A	N/A	N/A
I		Ingestion of soil/dust indoors	1		✓	√	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
Human Health Off-		Ingestion of soil/dust outdoors	1		√	√	✓	$\checkmark$	x	Medium	Unlikely	Low
Site	5	Inhalation of particles (dust / soil) indoor and outdoor	1		✓	√	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
		Inhalation of vapours – outdoor	1		x	x	x	x	$\checkmark$	Medium	Unlikely	Low
		Inhalation of vapours - indoor	1		x	x	x	x	$\checkmark$	Medium	Unlikely	Low
I		Dermal absorption via direct contact with soil	1					$\checkmark$	x	Medium	Unlikely	Low
I		Dermal absorption via waters (swimming / showering)	0	✓	✓		$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Groundwater		Leaching	1				x	$\checkmark$	x	Medium	Low	Moderate
(Resource)	4	Migration via natural or anthropogenic	1		√	√	x	$\checkmark$	x	Medium	Low	Moderate
Groundwater		Leaching	1				x	$\checkmark$	x	Mild	Low	Low
(Biodiversity)	2	Migration via natural or anthropogenic	1		√	· · · · · · · · · · · · · · · · · · ·	x		x	Mild	Low	Low
		Direct runoff or discharges from pipes	0		✓		✓ <b>√</b>	$\checkmark$	X	N/A	N/A	N/A
Surface Water		Indirect via recharge from groundwater (hydraulic flow)	0				$\checkmark$	<b>√</b>	X	N/A	N/A	N/A
(Resource)		Deposition of wind blown dust	0		 ✓		✓	$\checkmark$	X	N/A	N/A	N/A
i		Direct runoff or discharges from pipes	0		✓		$\checkmark$	✓	X	N/A	N/A	N/A
Surface Water		Indirect via recharge from groundwater (hydraulic flow)	1	✓ ✓		$\checkmark$		$\checkmark$	x	Mild	Low	Low
(Biodiversity)		Deposition of wind blown dust	1	· ✓		$\checkmark$		✓	x	Mild	Low	Low
Property -		Direct contact / Damage due to vibration, change in groundwater level etc.	1		√	√	x	x	x	Mild	Low	Very Low
Buildings	-	Explosion due to gas migration via natural / anthropogenic	0		×	x	x	x		N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	1			~		× √	×	Medium	Low	Moderate
		Indirect - through watering	1	↓ ↓		√	x	√	×	Medium	Low	Moderate
Terrestrial Ecology	4	Inhalation of gases/vapours or particulates/dust by animals	0	✓ ✓	✓ ✓	✓ ✓		✓ ✓	× ✓	N/A	Low	N/A
1		Ingestion of of vegetation / water / soil by animals	1	√	√	√	$\checkmark$	$\checkmark$	x	Medium	N/A	N/A
Geologically		Direct deposition of particles / dust - wind blown or flood	0	~	$\checkmark$	~	1	$\checkmark$	x	N/A	N/A	N/A
Designated SSSI and RIGS		Indirect - through watering	0	✓	$\checkmark$	√	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

Stantec	Client Island Green Power			Ea //MARISING POL nd CRCs with PS
Caversham Bridge House, Waterman Place, Rea	ding, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499	HAZARD CLASSIFICATION	3	Petroleum hydroca Co NOTE: Assessment a

EPH = Extractable hydrocarbons

PAHs = Poly Aromatic Hydrocarbons

Note For Metals there is an Inhalation pathway if Mercury is present Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

#### 26/09/2024 Date A3 Scale NTS ast Pye Solar Project Drawn By NH Checked By CC LUTANT LINKAGES AND RISK ESTIMATION SCs Identified on-Site (CONSTRUCTION PHASE) THE POTENTIAL CONTAMINANTS OF CONCERN ARE :arbons, Polycyclic Aromtic Hydrocarbons, asbestos, Volatile and Semi-Volatile Organic ompounds, Inorganic Compounds, Landfill Gases, Pathogens, PFAS above uses likelihoods for work directly within area of on-Site PSC. Outside of the PSCs lower likelihoods are applicable.

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
		Ingestion of fruit or vegetable leaf or roots	0	✓	$\checkmark$	✓	X	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Human Health -	4	Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
On-Site	4	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
		Inhalation of vapours/gases – outdoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Medium	Low	Moderate
		Inhalation of vapours/gases - indoor	0	$\checkmark$	x	X	x	x	$\checkmark$	N/A	N/A	N/A
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
Human Health Off-	5	Ingestion of soil/dust outdoors	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
Site	Ŭ	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Medium	Unlikely	Low
		Inhalation of vapours – outdoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Medium	Unlikely	Low
		Inhalation of vapours - indoor	1	$\checkmark$	x	x	x	x	$\checkmark$	Medium	Unlikely	Low
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Groundwater	4	Leaching	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Medium	Low	Moderate
(Resource)	-	Migration via natural or anthropogenic	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Medium	Low	Moderate
Groundwater	2	Leaching	1	$\checkmark$	$\checkmark$	$\checkmark$	x	√	x	Mild	Low	Low
(Biodiversity)		Migration via natural or anthropogenic	1	$\checkmark$	√	√	x	√	x	Mild	Low	Low
Surface Water		Direct runoff or discharges from pipes	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(Resource)		Indirect via recharge from groundwater (hydraulic flow)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	x	N/A	N/A	N/A
(		Deposition of wind blown dust	0	$\checkmark$	$\checkmark$	$\checkmark$	✓	✓	x	N/A	N/A	N/A
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	x	N/A	N/A	N/A
(Biodiversity)		Indirect via recharge from groundwater (hydraulic flow)	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	x	Mild	Low	Low
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Deposition of wind blown dust	1	$\checkmark$	√	$\checkmark$	✓	√	x	Mild	Low	Low
Property - Buildings		Direct contact / Damage due to vibration, change in groundwater level etc.	1	$\checkmark$	$\checkmark$	$\checkmark$	x	x	x	Mild	Likely	Moderate
Buildings		Explosion due to gas migration via natural / anthropogenic	0	$\checkmark$	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Unlikely	Low
Terrestrial		Indirect - through watering	1	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	Medium	Unlikely	Low
Ecology		Inhalation of gases/vapours or particulates/dust by animals	0	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	✓	N/A	Unlikely	N/A
		Ingestion of of vegetation / water / soil by animals	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	N/A	N/A
Geologically Designated SSSI		Direct deposition of particles / dust - wind blown or flood	0	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
and RIGS		Indirect - through watering	0	✓	$\checkmark$	✓	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

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Caversham Bridge House, Waterman Place, Read	ding, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499	HAZARD CLASSIFICATION	3	Petroleum hydroca Co NOTE: Assessment a

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eg Naphthalene		
	Date	26/09/2024
ast Pye Solar Project	A3 Scale	NTS
asi rye solal riojeci	Drawn By	NH
LUTANT LINKAGES AND RISK ESTIMATION	Checked By	CC
SCs Identified on Site (CONSTRUCTION PHASE)		
THE POTENTIAL CONTAMINANTS OF CONCERN ARE :-		
arbons, Polycyclic Aromtic Hydrocarbons, asbestos, Volatile and Semi-Volatile Organic Compounds, Inorganic Compounds, Landfill Gases, Pathogens, PFAS		
above uses likelihoods for work directly within area of on-Site PSC. Outside of the PSCs lower likelihoods are applicable.		

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
		Ingestion of fruit or vegetable leaf or roots	0	✓	$\checkmark$	$\checkmark$	X	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Human Health -	1	Ingestion of soil/dust outdoors	1	√	$\checkmark$	√	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
On-Site	4	Inhalation of particles (dust / soil) indoor and outdoor	1	√	$\checkmark$	√	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
		Inhalation of vapours/gases – outdoor	1	√	x	x	x	x	√	Medium	Low	Moderate
		Inhalation of vapours/gases - indoor	0	$\checkmark$	x	X	x	x	$\checkmark$	N/A	N/A	N/A
		Dermal absorption via direct contact with soil	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Human Health Off-	- <sub>0</sub>	Ingestion of soil/dust outdoors	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Site	Ŭ	Inhalation of particles (dust / soil) indoor and outdoor	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
		Inhalation of vapours – outdoor	0	$\checkmark$	X	X	x	x	$\checkmark$	N/A	N/A	N/A
		Inhalation of vapours - indoor	0	$\checkmark$	X	X	X	x	$\checkmark$	N/A	N/A	N/A
		Dermal absorption via direct contact with soil	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
		Dermal absorption via waters (swimming / showering)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Groundwater	0	Leaching	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	X	N/A	N/A	N/A
(Resource)	Ŭ	Migration via natural or anthropogenic	0	$\checkmark$	$\checkmark$	$\checkmark$	X	$\checkmark$	x	N/A	N/A	N/A
Groundwater	0	Leaching	0	$\checkmark$	$\checkmark$	$\checkmark$	X	$\checkmark$	X	N/A	N/A	N/A
(Biodiversity)	0	Migration via natural or anthropogenic	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	X	N/A	N/A	N/A
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
(Resource)		Indirect via recharge from groundwater (hydraulic flow)	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(*******		Deposition of wind blown dust	0	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Surface Water		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
(Biodiversity)		Indirect via recharge from groundwater (hydraulic flow)	0	$\checkmark$	✓	$\checkmark$	$\checkmark$	✓	x	N/A	N/A	N/A
(,		Deposition of wind blown dust	0	$\checkmark$	✓	$\checkmark$	✓	√	x	N/A	N/A	N/A
Property - Buildings	3	Direct contact / Damage due to vibration, change in groundwater level etc.	0	✓	$\checkmark$	$\checkmark$	x	x	x	N/A	N/A	N/A
Bunaings		Explosion due to gas migration via natural / anthropogenic	0	$\checkmark$	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	0	$\checkmark$	$\checkmark$	✓	✓	$\checkmark$	x	N/A	N/A	N/A
Terrestrial		Indirect - through watering	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
Ecology		Inhalation of gases/vapours or particulates/dust by animals	0	√	$\checkmark$	√	$\checkmark$	$\checkmark$	$\checkmark$	N/A	N/A	N/A
		Ingestion of of vegetation / water / soil by animals	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Geologically Designated SSSI		Direct deposition of particles / dust - wind blown or flood	0	~	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
and RIGS		Indirect - through watering	0	✓	$\checkmark$	✓	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

Stantec	Client Island Green Power	Ea TABLE SUMMARISING POL Off-Site Source				
Caversham Bridge House, Waterman Place, Read	ding, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499	HAZARD CLASSIFICATION	3	Petroleum hydroca C		

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Note For Metals there is an Inhalation pathway if Mercury is present Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

# East Pye Solar Project Date 26/09/2024 A3 Scale NTS Drawn By NH Checked By CC THE POTENTIAL CONTAMINANTS OF CONCERN ARE : arbons, Polycyclic Aromtic Hydrocarbons, asbestos, Volatile and Semi-Volatile Organic Compounds, Inorganic Compounds, Landfill Gases, Pathogens, PFAS

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
		Ingestion of fruit or vegetable leaf or roots	0	✓	√	√	x	$\checkmark$	X	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	<ul> <li></li> </ul>	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
Human Health -	,	Ingestion of soil/dust outdoors	1	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
On-Site	4	Inhalation of particles (dust / soil) indoor and outdoor	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
		Inhalation of vapours/gases – outdoor	1	√	x	x	x	x	$\checkmark$	Medium	Low	Moderate
		Inhalation of vapours/gases - indoor	1	√	x	x	x	x	$\checkmark$	Medium	Low	Moderate
		Dermal absorption via direct contact with soil	1	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	Medium	Low	Moderate
		Dermal absorption via waters (swimming / showering)	0	✓		$\checkmark$		✓	X	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	✓	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
Human Health Off- Site		Ingestion of contaminated drinking water	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	$\checkmark$	$\checkmark$	x	x	$\checkmark$	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
	-	Ingestion of soil/dust outdoors	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	<ul> <li>Image: A start of the start of</li></ul>	x	N/A	N/A	N/A
	0	Inhalation of particles (dust / soil) indoor and outdoor	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Inhalation of vapours – outdoor	0	✓	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Inhalation of vapours - indoor	0	✓	x	x	x	x	$\checkmark$	N/A	N/A	N/A
		Dermal absorption via direct contact with soil	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Dermal absorption via waters (swimming / showering)	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Groundwater	0	Leaching	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
(Resource)	0	Migration via natural or anthropogenic	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
Groundwater	0	Leaching	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
(Biodiversity)	0	Migration via natural or anthropogenic	0	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A
		Direct runoff or discharges from pipes	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Surface Water (Resource)	0	Indirect via recharge from groundwater (hydraulic flow)	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(Resource)		Deposition of wind blown dust	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
		Direct runoff or discharges from pipes	0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Surface Water (Biodiversity)	0	Indirect via recharge from groundwater (hydraulic flow)	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
(Blouiversity)		Deposition of wind blown dust	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	X	N/A	N/A	N/A
Property - Buildings	3	Direct contact / Damage due to vibration, change in groundwater level etc.	1	√	$\checkmark$	$\checkmark$	x	x	x	Mild	Likely	Moderate
		Explosion due to gas migration via natural / anthropogenic	1	√	x	x	x	x	$\checkmark$	Mild	Likely	Moderate
		Direct deposition of particles / dust - wind blown or flood	0	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Terrestrial Ecology		Indirect - through watering	0	✓	$\checkmark$	✓	x	$\checkmark$	x	N/A	N/A	N/A
	0	Inhalation of gases/vapours or particulates/dust by animals	0	✓	✓	$\checkmark$	√	$\checkmark$	✓	N/A	N/A	N/A
		Ingestion of of vegetation / water / soil by animals	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
Geologically Designated SSSI		Direct deposition of particles / dust - wind blown or flood	0	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x	N/A	N/A	N/A
and RIGS	0	Indirect - through watering	0	✓	$\checkmark$	$\checkmark$	x	$\checkmark$	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely). The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology. Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

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