

## FIGURES



FIGURE 1

SITE LOCATION PLAN  
SMALL SCALE

THE DAIRY  
ROADS HILL  
CATHERINGTON  
WATERLOOVILLE



FIGURE 2

SITE LOCATION PLAN  
LARGE SCALE

THE DAIRY  
ROADS HILL  
CATHERINGTON  
WATERLOOVILLE



FIGURE 4

SITE AERIAL PHOTOGRAPH

THE DAIRY  
ROADS HILL  
CATHERINGTON  
WATERLOOVILLE

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FIGURE 5

PROPOSED SITE PLAN

THE DAIRY  
ROADS HILL  
CATHERINGTON  
WATERLOOVILLE

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## APPENDICES

APPENDIX A  
SITE PHOTOGRAPHS





Photograph 1

A view showing one of the entrances into the main equestrian site with a workshop shown centrally.



Photograph 2

An internal view showing a small workshop and storage facility.

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Photograph 3

Example of materials stored. Note concrete flooring in general good condition.



Photograph 4

A view north to south showing a single mobile home and site parking area.

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Photograph 5

A view of a garage building leased to a vehicle servicing business. This building was inaccessible during the site reconnaissance visit.



Photograph 6

A view of the same building north to south

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Photograph 7

Some materials including metal drums stored on soft ground to the rear of the garage



Photograph 8

Discarded materials stored within a transport container.

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Photograph 9

A view across the northern section of the site showing areas of hardstanding.



Photograph 10

A view west to east across the northern section of the site.  
Note changes in ground surface materials.

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Photograph 11

The north eastern corner of the site is leased to various companies for storage. This section of the site used for keeping of topsoils.



Photograph 12

Shipping containers stored within the industrial yard area in north eastern corner of the overall site.

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Photograph 13

General view across the north eastern corner of the site.



Photograph 14

Area used for waste storage by a window installer

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Photograph 15

Discarded waste items



Photograph 16

A mound of soil material and other located near the north east corner of the site

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Photograph 17

View south to north across the north eastern corner of the site.



Photograph 18

Small stable block

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Photograph 19

Manege' located south of the main site buildings.



Photograph 20

A view to the south showing the paddocks.

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Photograph 21

A view from the south to the north showing site buildings in the distance



Photograph 22

A view of a former horse trainer

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Photograph 23

A view of the far south western corner of the site showing part of the paddock



Photograph 24

A view of old trailers and other containers to the west of the main buildings

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Photograph 25

Materials stored on the ground near the northern boundary of the site.  
Other examples of stockpiled soils in this area.

APPENDIX B  
DATA REPORT

THE DAIRY, ROADS HILL, HORNDEAN, WATERLOOVILLE, PO8 0TG

**Order Details**

**Date:** 28/10/2020  
**Your ref:** CLR\_5028  
**Our Ref:** GS-7201414  
**Client:** Brown Fisher Environmental LLP

**Site Details**

**Location:** 469254 114103  
**Area:** 1.86 ha  
**Authority:** [East Hampshire District Council](#)



**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.13

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## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>14</b>	<b>1.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	17	25	-
16	1.2	Historical tanks	0	0	0	0	-
<b>16</b>	<b>1.3</b>	<b><u>Historical energy features</u></b>	0	0	3	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<b>18</b>	<b>2.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	20	29	-
20	2.2	Historical tanks	0	0	0	0	-
<b>21</b>	<b>2.3</b>	<b><u>Historical energy features</u></b>	0	0	4	0	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
<b>23</b>	<b>3.7</b>	<b><u>Waste exemptions</u></b>	0	0	10	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>25</b>	<b>4.1</b>	<b><u>Recent industrial land uses</u></b>	1	2	6	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-





27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27	4.8	Hazardous substance storage/usage	0	0	0	0	-
27	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
28	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
28	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
29	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
29	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>31</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>32</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>33</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
<b>34</b>	<b>5.4</b>	<b><u>Groundwater vulnerability- soluble rock risk</u></b>	Identified (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>36</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	0	0	0	5
38	5.7	Surface water abstractions	0	0	0	0	0
<b>38</b>	<b>5.8</b>	<b><u>Potable abstractions</u></b>	0	0	0	0	3
<b>39</b>	<b>5.9</b>	<b><u>Source Protection Zones</u></b>	1	0	0	0	-
39	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
40	6.1	Water Network (OS MasterMap)	0	0	0	-	-



40	6.2	Surface water features	0	0	0	-	-
<b>41</b>	<b>6.3</b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
<b>41</b>	<b>6.4</b>	<b><u>WFD Surface water bodies</u></b>	0	0	0	-	-
<b>42</b>	<b>6.5</b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
43	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
43	7.2	Historical Flood Events	0	0	0	-	-
43	7.3	Flood Defences	0	0	0	-	-
43	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
44	7.5	Flood Storage Areas	0	0	0	-	-
45	7.6	Flood Zone 2	None (within 50m)				
45	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
46	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
<b>47</b>	<b>9.1</b>	<b><u>Groundwater flooding</u></b>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>48</b>	<b>10.1</b>	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	1	0	0	0
49	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
49	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
49	10.4	Special Protection Areas (SPA)	0	0	0	0	0
49	10.5	National Nature Reserves (NNR)	0	0	0	0	0
<b>50</b>	<b>10.6</b>	<b><u>Local Nature Reserves (LNR)</u></b>	0	1	0	0	5
<b>50</b>	<b>10.7</b>	<b><u>Designated Ancient Woodland</u></b>	0	0	1	2	24
51	10.8	Biosphere Reserves	0	0	0	0	0
52	10.9	Forest Parks	0	0	0	0	0
52	10.10	Marine Conservation Zones	0	0	0	0	0
52	10.11	Green Belt	0	0	0	0	0
52	10.12	Proposed Ramsar sites	0	0	0	0	0



52	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
53	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
53	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<b>53</b>	<b>10.16</b>	<b><u>Nitrate Vulnerable Zones</u></b>	2	0	0	0	2
<b>54</b>	<b>10.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	3	-	-	-	-
<b>55</b>	<b>10.18</b>	<b><u>SSSI Units</u></b>	0	1	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
57	11.1	World Heritage Sites	0	0	0	-	-
58	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
<b>58</b>	<b>11.3</b>	<b><u>National Parks</u></b>	0	0	1	-	-
<b>58</b>	<b>11.4</b>	<b><u>Listed Buildings</u></b>	0	1	3	-	-
<b>59</b>	<b>11.5</b>	<b><u>Conservation Areas</u></b>	1	0	0	-	-
59	11.6	Scheduled Ancient Monuments	0	0	0	-	-
60	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>61</b>	<b>12.1</b>	<b><u>Agricultural Land Classification</u></b>	Grade 3 (within 250m)				
<b>62</b>	<b>12.2</b>	<b><u>Open Access Land</u></b>	0	0	1	-	-
<b>62</b>	<b>12.3</b>	<b><u>Tree Felling Licences</u></b>	0	0	1	-	-
<b>62</b>	<b>12.4</b>	<b><u>Environmental Stewardship Schemes</u></b>	0	1	2	-	-
63	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>64</b>	<b>13.1</b>	<b><u>Priority Habitat Inventory</u></b>	0	3	13	-	-
<b>65</b>	<b>13.2</b>	<b><u>Habitat Networks</u></b>	2	0	0	-	-
66	13.3	Open Mosaic Habitat	0	0	0	-	-
66	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>67</b>	<b>14.1</b>	<b><u>10k Availability</u></b>	Identified (within 500m)				
68	14.2	Artificial and made ground (10k)	0	0	0	0	-
<b>69</b>	<b>14.3</b>	<b><u>Superficial geology (10k)</u></b>	1	0	1	0	-



70	14.4	Landslip (10k)	0	0	0	0	-
<b>71</b>	<b>14.5</b>	<b><u>Bedrock geology (10k)</u></b>	1	0	1	0	-
72	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>73</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
74	15.2	Artificial and made ground (50k)	0	0	0	0	-
74	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<b>75</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	0	1	0	-
<b>76</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
76	15.6	Landslip (50k)	0	0	0	0	-
76	15.7	Landslip permeability (50k)	None (within 50m)				
<b>77</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	0	1	0	-
<b>78</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
78	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<b>79</b>	<b>16.1</b>	<b><u>BGS Boreholes</u></b>	0	0	1	-	-
Page	Section	Natural ground subsidence					
<b>80</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Low (within 50m)				
<b>81</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Negligible (within 50m)				
<b>82</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Negligible (within 50m)				
<b>83</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Very low (within 50m)				
<b>84</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Very low (within 50m)				
<b>86</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Moderate (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
88	18.1	Natural cavities	0	0	0	0	-
<b>89</b>	<b>18.2</b>	<b><u>BritPits</u></b>	0	0	2	3	-
<b>90</b>	<b>18.3</b>	<b><u>Surface ground workings</u></b>	0	4	21	-	-
91	18.4	Underground workings	0	0	0	0	0
91	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<b>91</b>	<b>18.6</b>	<b><u>Non-coal mining</u></b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
92	18.7	Mining cavities		0	0	0	0	0
92	18.8	JPB mining areas		None (within 0m)				
92	18.9	Coal mining		None (within 0m)				
92	18.10	Brine areas		None (within 0m)				
93	18.11	Gypsum areas		None (within 0m)				
93	18.12	Tin mining		None (within 0m)				
93	18.13	Clay mining		None (within 0m)				
Page	Section	Radon						
<b>94</b>	<b>19.1</b>	<b><u>Radon</u></b>	<b>Between 1% and 3% (within 0m)</b>					
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m	
<b>95</b>	<b>20.1</b>	<b><u>BGS Estimated Background Soil Chemistry</u></b>	<b>1</b>	<b>2</b>	-	-	-	
95	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-	
95	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-	
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m	
96	21.1	Underground railways (London)	0	0	0	-	-	
96	21.2	Underground railways (Non-London)	0	0	0	-	-	
96	21.3	Railway tunnels	0	0	0	-	-	
96	21.4	Historical railway and tunnel features	0	0	0	-	-	
96	21.5	Royal Mail tunnels	0	0	0	-	-	
97	21.6	Historical railways	0	0	0	-	-	
97	21.7	Railways	0	0	0	-	-	
97	21.8	Crossrail 1	0	0	0	0	-	
97	21.9	Crossrail 2	0	0	0	0	-	
97	21.10	HS2	0	0	0	0	-	

## Recent aerial photograph

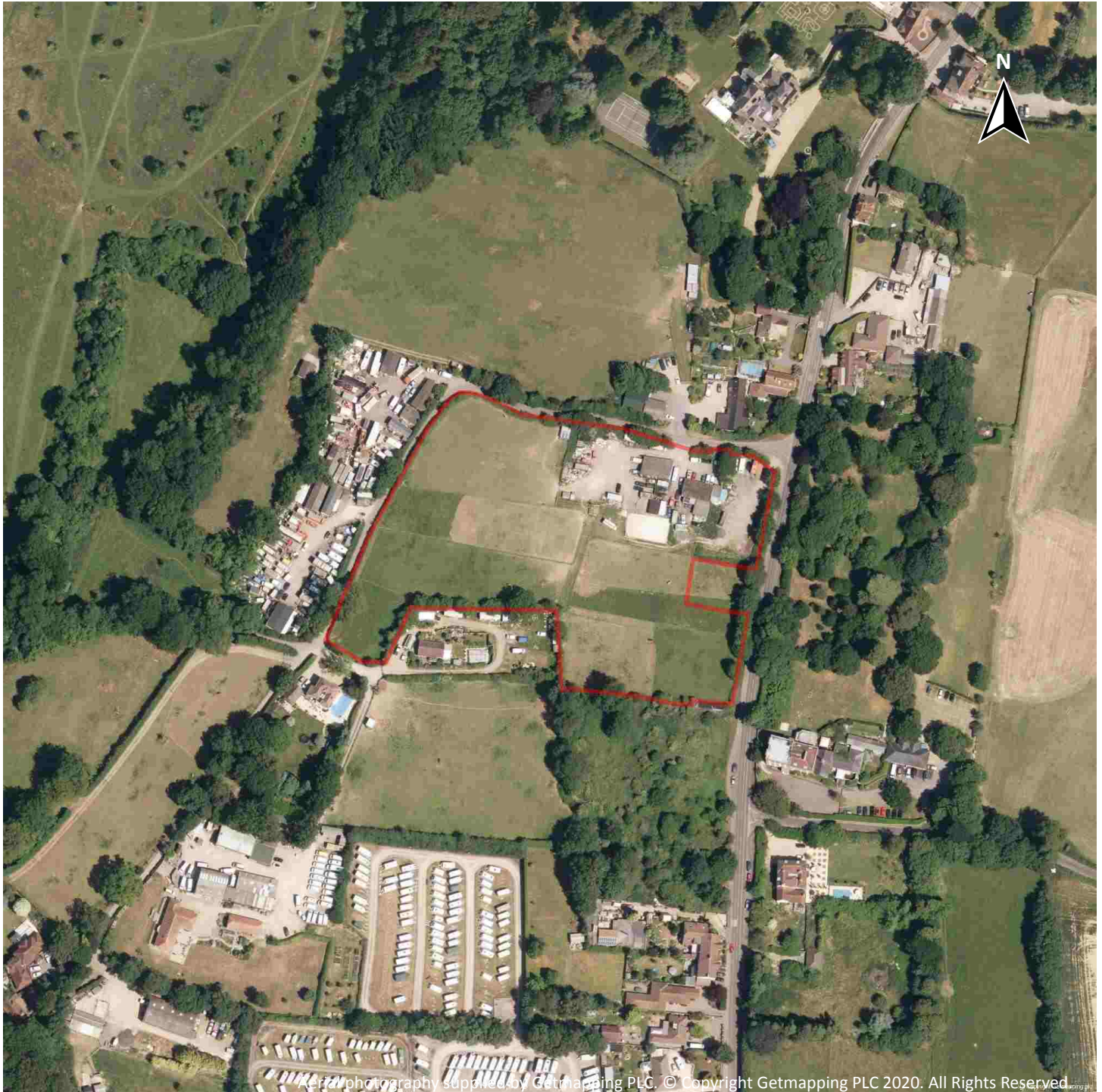


Capture Date: 21/06/2017

Site Area: 1.86ha



## Recent site history - 2013 aerial photograph



Capture Date: 20/08/2013

Site Area: 1.86ha



## Recent site history - 2005 aerial photograph



Capture Date: 26/05/2005

Site Area: 1.86ha





## Recent site history - 2004 aerial photograph



Capture Date: 24/09/2004

Site Area: 1.86ha



## Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999

Site Area: 1.86ha



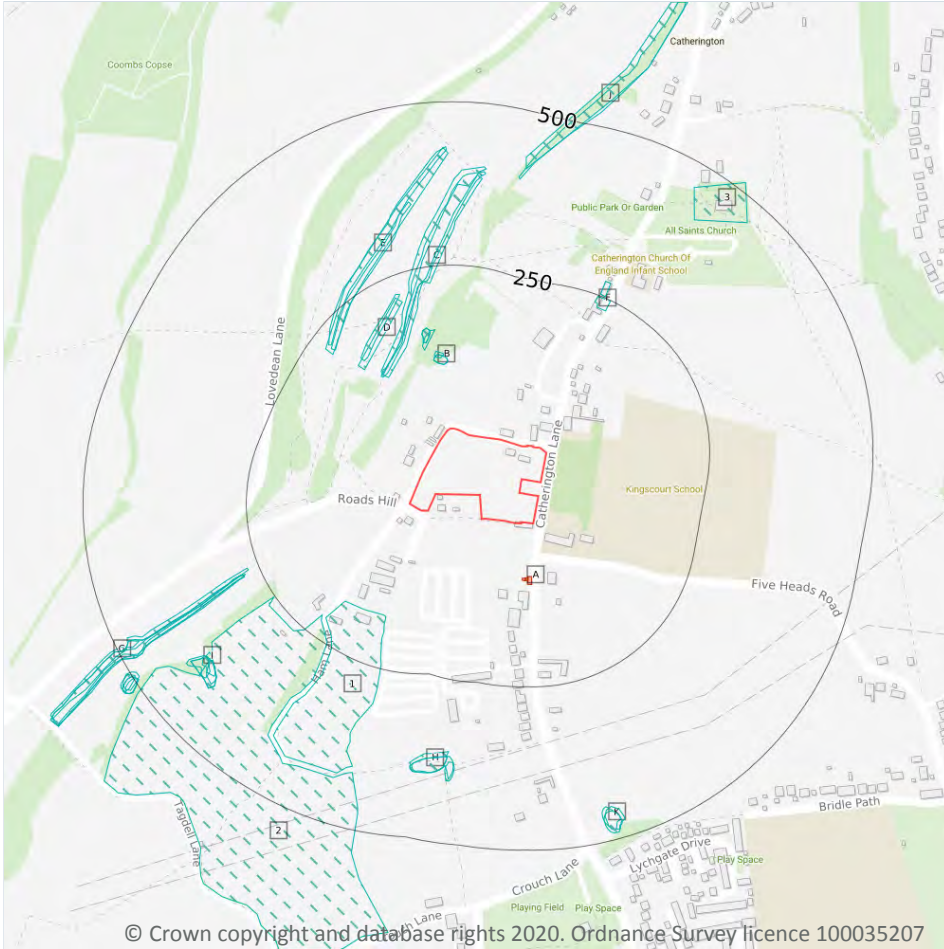
## OS MasterMap site plan



Site Area: 1.86ha



# 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical energy features

## 1.1 Historical industrial land uses

**Records within 500m** **42**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	99m N	Old Chalk Pits	1908	1865054

ID	Location	Land use	Dates present	Group ID
B	99m N	Unspecified Pit	1933	1931402
B	109m N	Unspecified Pit	1867	1954718
C	121m NW	Unspecified Ground Workings	1895	1930223
B	126m N	Old Chalk Pit	1895	1856802
C	127m NW	Unspecified Ground Workings	1908 - 1933	1919390
C	131m NW	Unspecified Ground Workings	1959	1924608
B	136m N	Old Chalk Pits	1908	1865055
B	136m N	Unspecified Pit	1933	1881148
D	157m NW	Unspecified Ground Workings	1908 - 1933	1956187
D	166m NW	Unspecified Ground Workings	1959	1908075
1	170m S	Nursery	1992	1867654
E	210m NW	Unspecified Ground Workings	1908 - 1933	1891144
E	211m NW	Unspecified Ground Workings	1895	1910204
2	217m SW	Nursery	1992	1892924
E	221m NW	Unspecified Ground Workings	1959	1885674
F	232m NE	Smithy	1895	1876072
F	251m NE	Smithy	1908	1876071
G	267m W	Unspecified Ground Workings	1959	1963171
G	275m SW	Unspecified Pit	1933	1881152
G	275m SW	Unspecified Ground Workings	1908	1911302
G	277m SW	Unspecified Ground Workings	1895	1949066
H	360m S	Unspecified Pit	1933 - 1959	1927055
H	367m S	Old Chalk Pits	1895	1933595
H	367m S	Old Chalk Pits	1908	1917540
H	375m S	Old Chalk Pits	1908	1889155
I	382m SW	Unspecified Pit	1959	1906686
I	386m SW	Old Chalk Pit	1895	1856804
I	387m SW	Old Chalk Pits	1908	1865046



ID	Location	Land use	Dates present	Group ID
I	387m SW	Unspecified Pit	1933	1924654
I	389m SW	Unspecified Pit	1867	1928461
J	395m N	Unspecified Ground Workings	1895	1957090
J	413m N	Unspecified Ground Workings	1908 - 1933	1892840
3	421m NE	Grave Yard	1867	1866049
K	447m S	Unspecified Pit	1867	1896671
K	449m S	Unspecified Pit	1959	1940833
K	455m S	Unspecified Pit	1908 - 1933	1923653
G	491m SW	Unspecified Pit	1959	1938171
G	494m SW	Unspecified Pit	1895	1920661
G	496m SW	Unspecified Pit	1867	1916776
G	496m SW	Old Chalk Pits	1908	1865045
G	496m SW	Unspecified Pit	1933	1893244

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

<b>Records within 500m</b>	<b>0</b>
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.3 Historical energy features

<b>Records within 500m</b>	<b>3</b>
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	81m S	Electricity Substation	1993	204624
A	83m S	Electricity Substation	1974	207414
A	84m S	Electricity Substation	1987 - 1990	196441

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.5 Historical garages

**Records within 500m**

**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

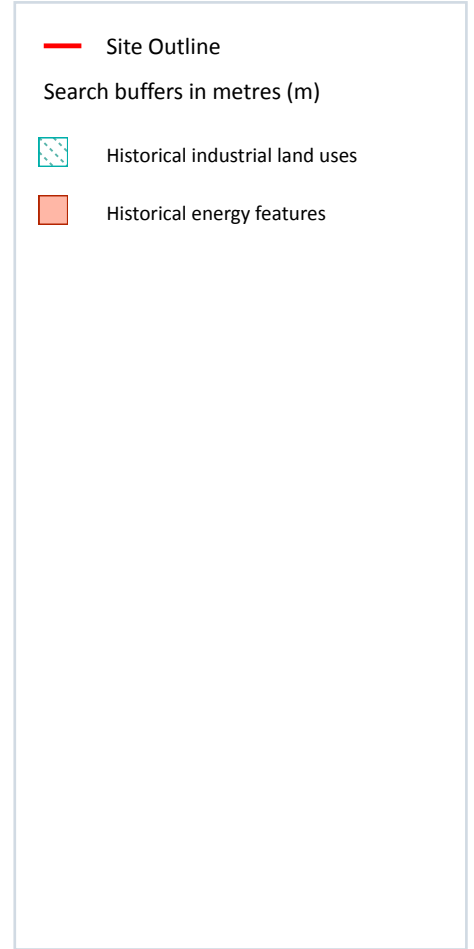
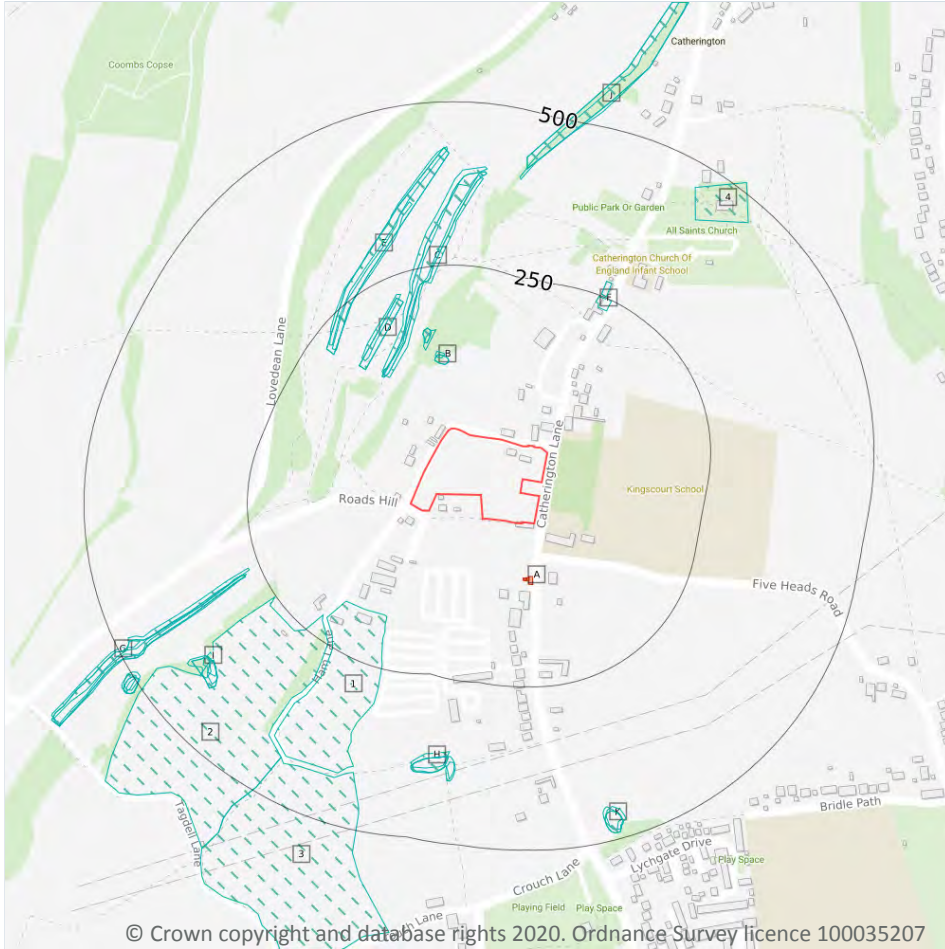
**Records within 500m**

**0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*

## 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

Records within 500m

49

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
B	99m N	Unspecified Pit	1933	1931402
B	99m N	Old Chalk Pits	1908	1865054
B	109m N	Unspecified Pit	1867	1954718



ID	Location	Land Use	Date	Group ID
C	121m NW	Unspecified Ground Workings	1895	1930223
B	126m N	Old Chalk Pit	1895	1856802
C	127m NW	Unspecified Ground Workings	1933	1919390
C	127m NW	Unspecified Ground Workings	1908	1919390
C	131m NW	Unspecified Ground Workings	1959	1924608
B	136m N	Unspecified Pit	1933	1881148
B	136m N	Old Chalk Pits	1908	1865055
D	157m NW	Unspecified Ground Workings	1933	1956187
D	157m NW	Unspecified Ground Workings	1908	1956187
D	166m NW	Unspecified Ground Workings	1959	1908075
1	170m S	Nursery	1992	1867654
E	210m NW	Unspecified Ground Workings	1933	1891144
E	210m NW	Unspecified Ground Workings	1908	1891144
E	211m NW	Unspecified Ground Workings	1895	1910204
2	217m SW	Nursery	1992	1892924
E	221m NW	Unspecified Ground Workings	1959	1885674
F	232m NE	Smithy	1895	1876072
F	251m NE	Smithy	1908	1876071
G	267m W	Unspecified Ground Workings	1959	1963171
G	275m SW	Unspecified Pit	1933	1881152
G	275m SW	Unspecified Ground Workings	1908	1911302
G	277m SW	Unspecified Ground Workings	1895	1949066
H	360m S	Unspecified Pit	1959	1927055
H	367m S	Old Chalk Pits	1895	1933595
H	367m S	Unspecified Pit	1933	1927055
H	367m S	Old Chalk Pits	1908	1917540
H	375m S	Old Chalk Pits	1908	1889155
I	382m SW	Unspecified Pit	1959	1906686



ID	Location	Land Use	Date	Group ID
I	386m SW	Old Chalk Pit	1895	1856804
I	387m SW	Unspecified Pit	1933	1924654
I	387m SW	Old Chalk Pits	1908	1865046
I	389m SW	Unspecified Pit	1867	1928461
J	395m N	Unspecified Ground Workings	1895	1957090
J	413m N	Unspecified Ground Workings	1933	1892840
J	413m N	Unspecified Ground Workings	1908	1892840
3	414m S	Nursery	1992	1892924
4	421m NE	Grave Yard	1867	1866049
K	447m S	Unspecified Pit	1867	1896671
K	449m S	Unspecified Pit	1959	1940833
K	455m S	Unspecified Pit	1933	1923653
K	455m S	Unspecified Pit	1908	1923653
G	491m SW	Unspecified Pit	1959	1938171
G	494m SW	Unspecified Pit	1895	1920661
G	496m SW	Unspecified Pit	1867	1916776
G	496m SW	Unspecified Pit	1933	1893244
G	496m SW	Old Chalk Pits	1908	1865045

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.3 Historical energy features

**Records within 500m** **4**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	81m S	Electricity Substation	1993	204624
A	83m S	Electricity Substation	1974	207414
A	84m S	Electricity Substation	1987	196441
A	84m S	Electricity Substation	1990	196441

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m** **0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

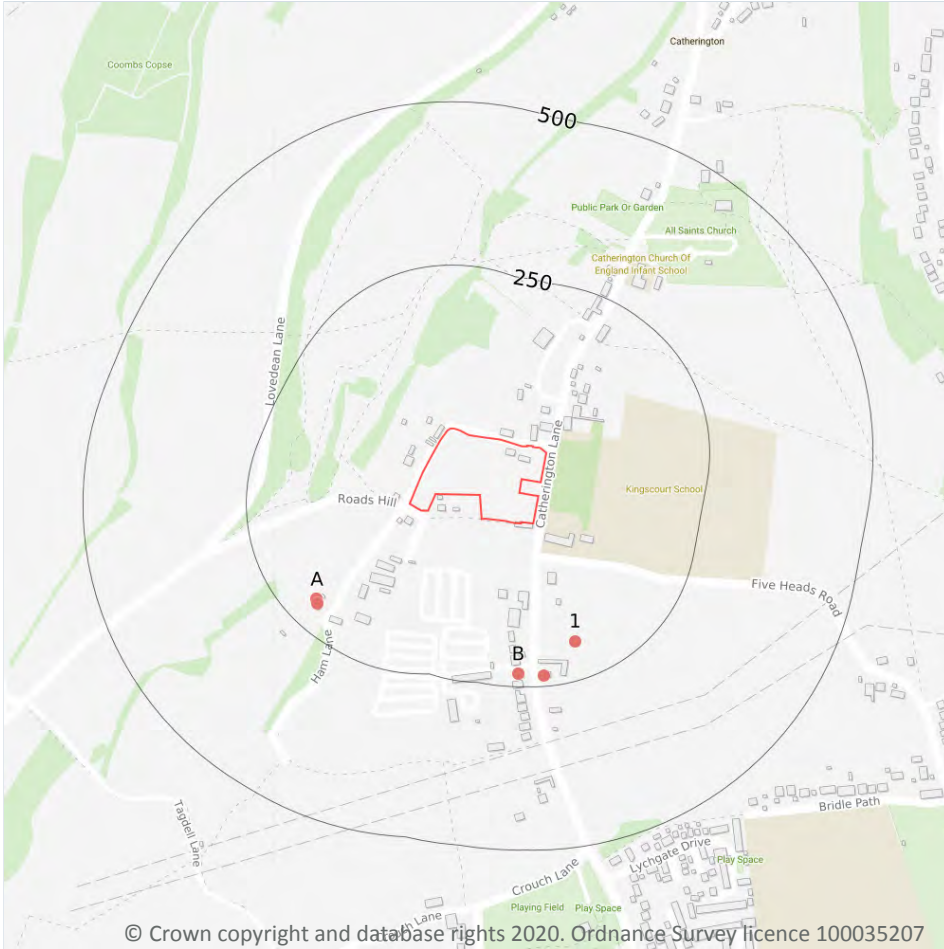
## 2.5 Historical garages

**Records within 500m** **0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

### 3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*



### 3.3 Historical landfill (LA/mapping records)

Records within 500m **0**

Landfill sites identified from Local Authority records and high detail historical mapping.

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

Records within 500m **0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.5 Historical waste sites

Records within 500m **0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

Records within 500m **0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.7 Waste exemptions

Records within 500m **10**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

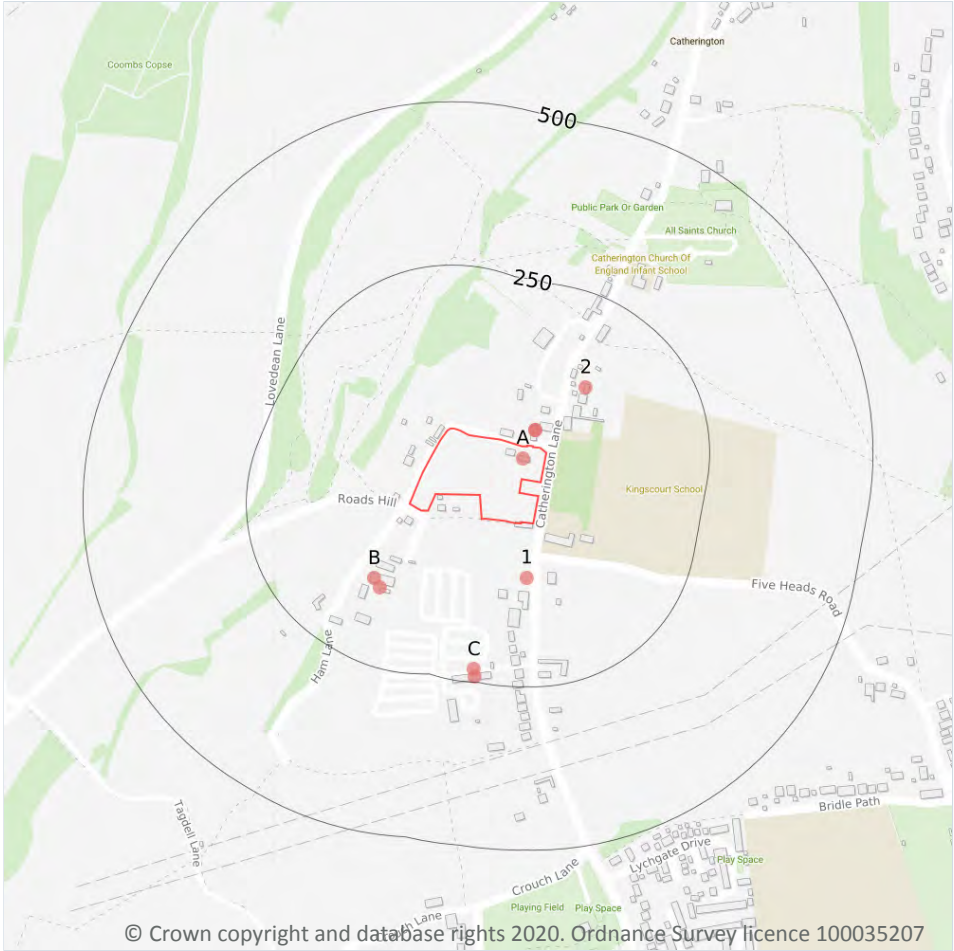
Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	192m S	214 Catherington Lane WATERLOOVILLE Hampshire PO8 0TA	EPR/GH0973G U/A001	Disposing of waste exemption	Agricultura l Waste Only	Burning waste in the open
A	204m SW	THE SWALLOWS, HAM LANE, CATHERINGTON, WATERLOOVILLE, PO8 0XJ	WEX242861	Storing waste exemption	Not on a farm	Storage of sludge
A	204m SW	THE SWALLOWS, HAM LANE, CATHERINGTON, WATERLOOVILLE, PO8 0XJ	WEX100771	Storing waste exemption	Not on a farm	Storage of sludge
A	204m SW	The Swallows Ham Lane WATERLOOVILLE Hampshire PO8 0XJ	EPR/ZF0737LB /A001	Disposing of waste exemption	Agricultura l Waste Only	Burning waste in the open
A	204m SW	The Swallows Ham Lane WATERLOOVILLE Hampshire PO8 0XJ	EPR/ZF0737LB /A001	Storing waste exemption	Agricultura l Waste Only	Storage of waste in secure containers
A	204m SW	The Swallows Ham Lane WATERLOOVILLE Hampshire PO8 0XJ	EPR/ZF0737LB /A001	Treating waste exemption	Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	210m SW	The Swallows Ham Lane WATERLOOVILLE Hampshire PO8 0XJ	EPR/UF0638JA /A001	Treating waste exemption	Non- Agricultura l Waste Only	Treatment of waste at a water treatment works
B	231m S	215, CATHERINGTON LANE, WATERLOOVILLE, PO8 0TB	WEX173347	Disposing of waste exemption	On a farm	Burning waste in the open
B	231m S	215, CATHERINGTON LANE, WATERLOOVILLE, PO8 0TB	WEX173347	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	234m S	Randells Farm, 214 Catherington Lane, Catherington, Waterlooville, PO8 0TA	WEX014377	Disposing of waste exemption	On a farm	Burning waste in the open

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4 Current industrial land use



**— Site Outline**

**Search buffers in metres (m)**

**● Recent industrial land uses**

### 4.1 Recent industrial land uses

**Records within 250m** **9**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Company	Address	Activity	Category
<b>A</b>	<b>On site</b>	<b>M K Motors</b>	<b>The Dairy, Roads Hill, Waterlooville, Hampshire, PO8 0TG</b>	<b>Vehicle Repair, Testing and Servicing</b>	<b>Repair and Servicing</b>
A	25m N	Empress Tooling Co	Unit 2 Whitegate Farm, Roads Hill, Waterlooville, Hampshire, PO8 0TG	Precision Engineers	Engineering Services
A	25m N	Cannon Car Audio	Unit 1 Kinches Farm, Roads Hill, Waterlooville, Hampshire, PO8 0TG	Vehicle Parts and Accessories	Motoring

ID	Location	Company	Address	Activity	Category
1	83m S	Electricity Sub Station	Hampshire, PO8	Electrical Features	Infrastructure and Facilities
2	116m NE	P M Trading	290, Catherington Lane, Waterlooville, Hampshire, PO8 0TD	New Vehicles	Motoring
B	126m SW	Pete's Airlink	Whitegate Farm, Roads Hill, Waterlooville, Hampshire, PO8 0TG	Vehicle Hire and Rental	Hire Services
B	134m SW	F D Metalworks Ltd	Whitegate Farm, Roads Hill, Waterlooville, Hampshire, PO8 0TG	Metalworkers Including Blacksmiths	Construction Services
C	230m S	Catherington Business Park	Hampshire, PO8	Business Parks and Industrial Estates	Industrial Features
C	241m S	A & G Caravans	Unit 4 Catherington Business Park 217, Catherington Lane, Catherington, Waterlooville, Hampshire, PO8 0AQ	Sports and Leisure Equipment Repair	Repair and Servicing

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m**

**0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m**

**0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*





## 4.5 Sites determined as Contaminated Land

Records within 500m	0
---------------------	---

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
---------------------	---

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

Records within 500m	0
---------------------	---

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

Records within 500m	0
---------------------	---

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m	0
---------------------	---

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



#### 4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

*This data is sourced from Local Authority records.*

#### 4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.13 Licensed Discharges to controlled waters

Records within 500m

0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



#### 4.15 Pollutant release to public sewer

Records within 500m	0
---------------------	---

Discharges of Special Category Effluents to the public sewer.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.16 List 1 Dangerous Substances

Records within 500m	0
---------------------	---

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.17 List 2 Dangerous Substances

Records within 500m	0
---------------------	---

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.18 Pollution Incidents (EA/NRW)

Records within 500m	0
---------------------	---

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.19 Pollution inventory substances

Records within 500m	0
---------------------	---

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

Records within 500m

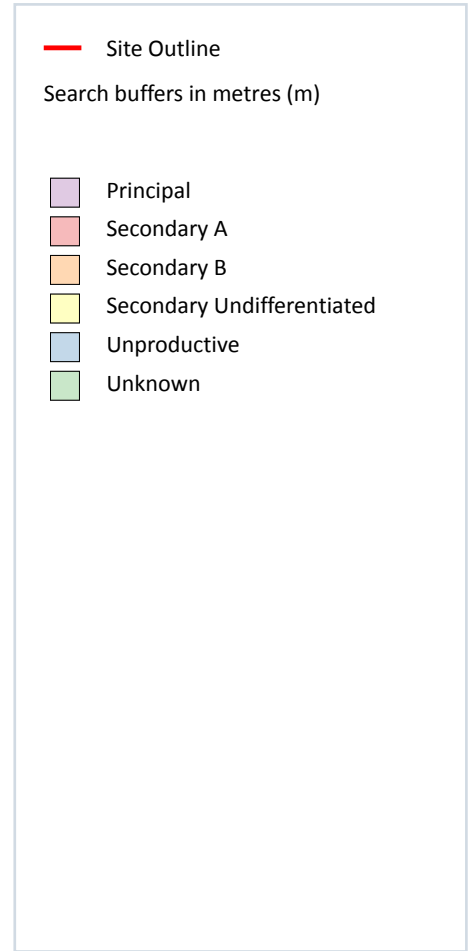
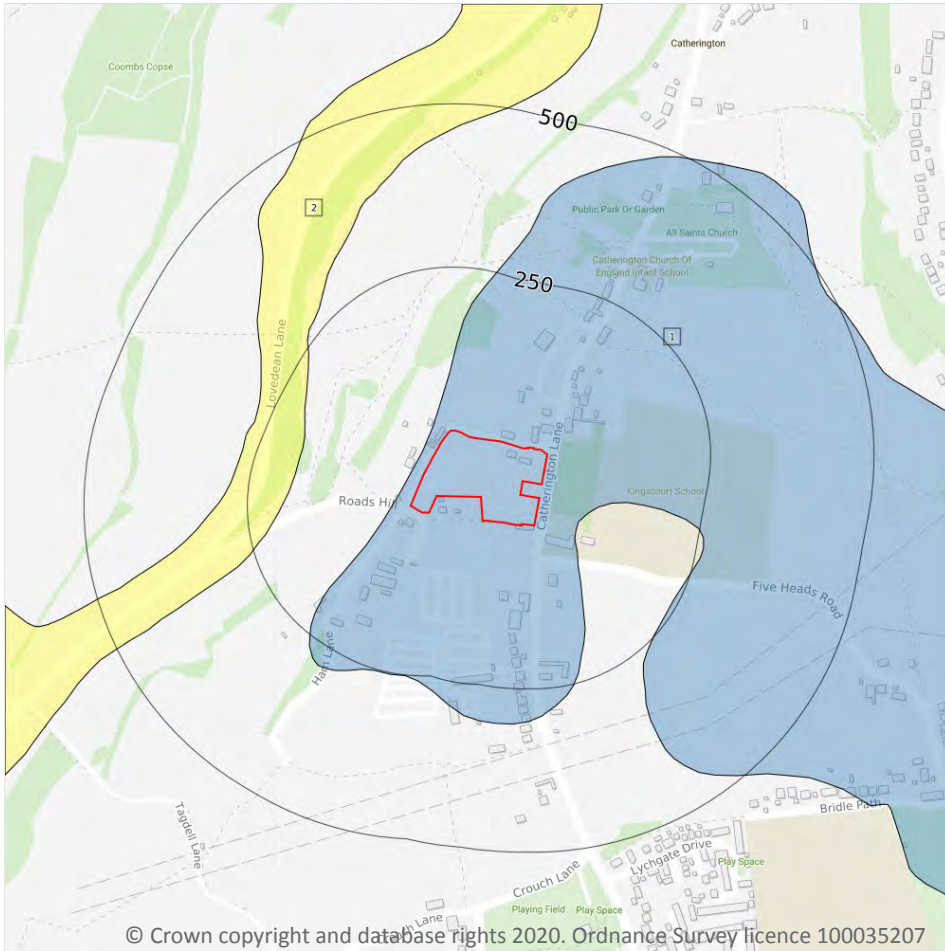
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

2

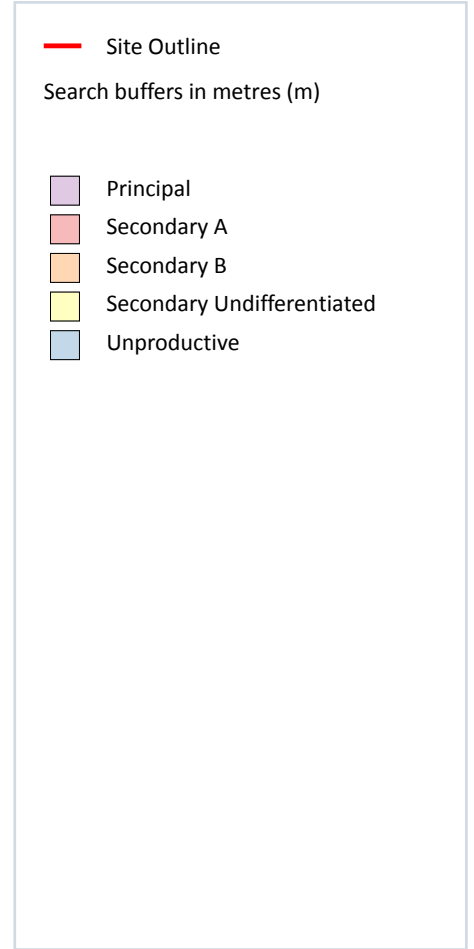
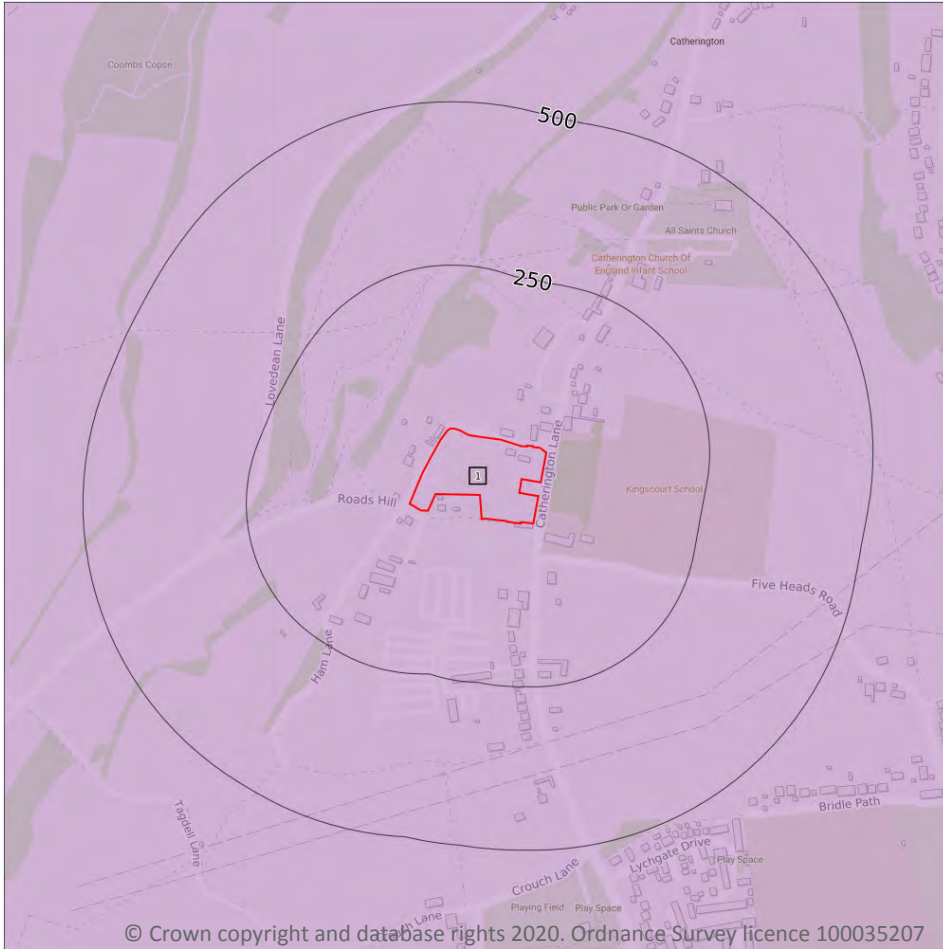
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 31**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	183m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## Bedrock aquifer



### 5.2 Bedrock aquifer

Records within 500m

1

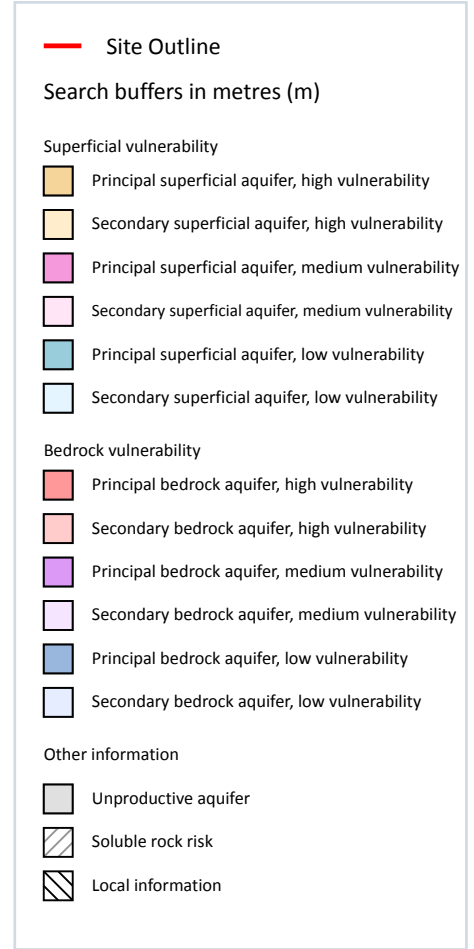
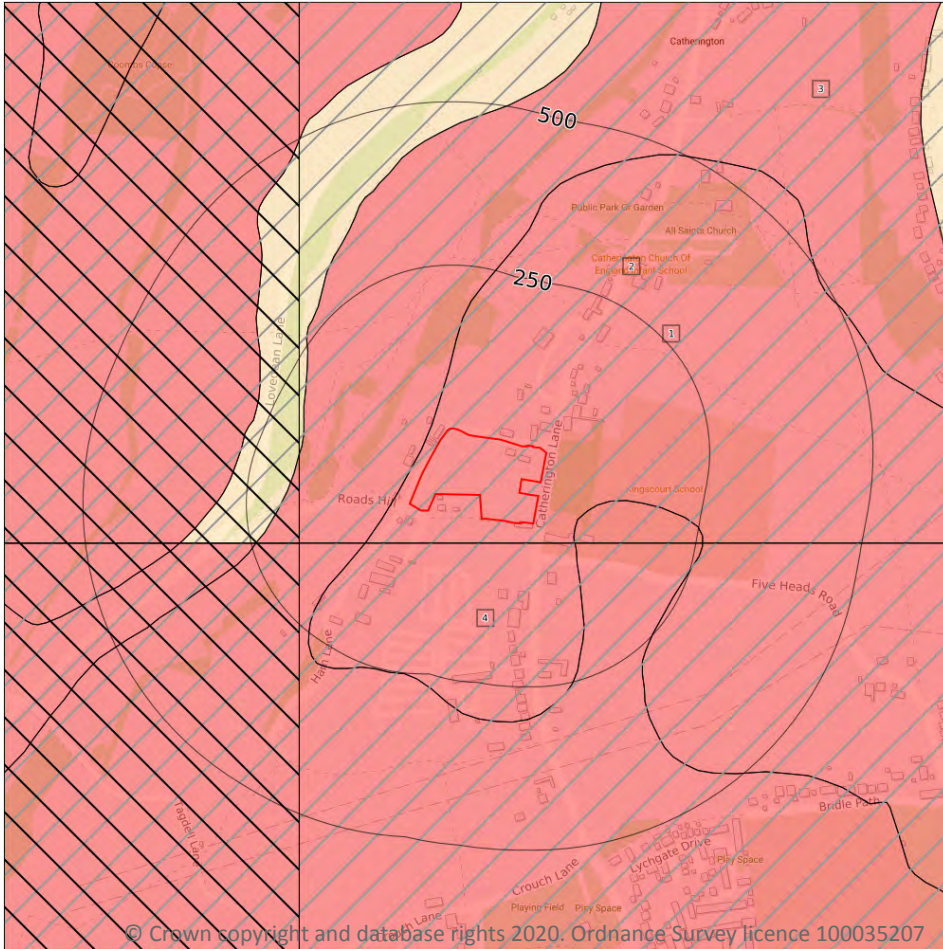
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 32**

ID	Location	Designation	Description
1	On site	Principal	<b>Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers</b>

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

3

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 33**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Principal bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class: High</b> <b>Infiltration value:</b> >70% <b>Dilution value: 300-550mm/year</b>	<b>Vulnerability: Unproductive</b> <b>Aquifer type: Unproductive</b> <b>Thickness: &lt;3m</b> <b>Patchiness value: &lt;90%</b> <b>Recharge potential: No Data</b>	<b>Vulnerability: High</b> <b>Aquifer type: Principal</b> <b>Flow mechanism: Well connected fractures</b>
3	18m NW	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	29m S	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

## 5.4 Groundwater vulnerability- soluble rock risk

<b>Records on site</b>	<b>1</b>
------------------------	----------

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	<b>Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.</b>	<b>36.0%</b>

This data is sourced from the British Geological Survey and the Environment Agency.





## 5.5 Groundwater vulnerability- local information

Records on site

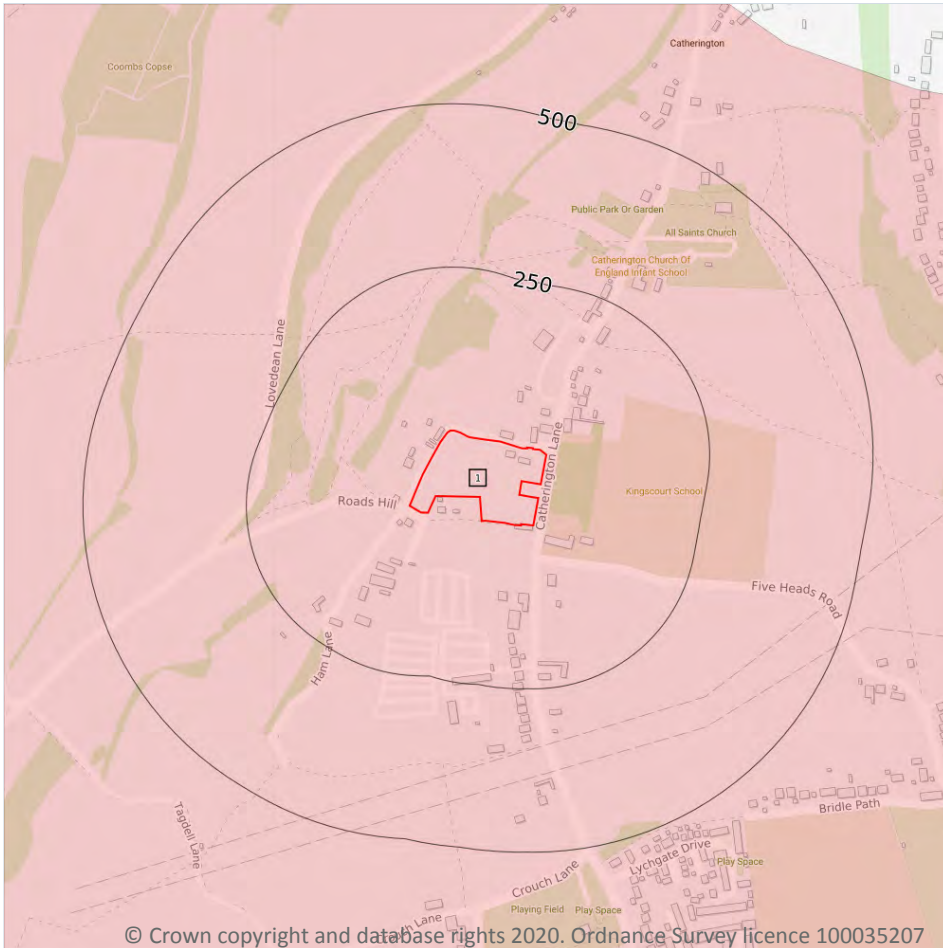
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk).

*This data is sourced from the British Geological Survey and the Environment Agency.*



## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

5

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 36**

ID	Location	Details	
-	1060m SW	Status: Historical Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT A AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468400 Northing: 113330	Annual Volume (m <sup>3</sup> ): 4,148,225 Max Daily Volume (m <sup>3</sup> ): 13638 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 11/06/2009 Version End Date: -
-	1068m SW	Status: Active Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468395 Northing: 113323	Annual Volume (m <sup>3</sup> ): 4,148,307 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: - Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2016 Version End Date: -
-	1069m SW	Status: Active Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT A AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468396 Northing: 113321	Annual Volume (m <sup>3</sup> ): 4,148,307 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: - Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2016 Version End Date: -
-	1531m SE	Status: Historical Licence No: 11/42/37/1 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: HORNDEAN BREWERY WELL A Data Type: Point Name: Fuller Smith & Turner Plc Easting: 470670 Northing: 113240	Annual Volume (m <sup>3</sup> ): 45460 Max Daily Volume (m <sup>3</sup> ): 122.7 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 01/01/2006 Version End Date: -
-	1606m SE	Status: Historical Licence No: 11/42/37/1 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: HORNDEAN BREWERY BOREHOLE B Data Type: Point Name: Fuller Smith & Turner Plc Easting: 470740 Northing: 113210	Annual Volume (m <sup>3</sup> ): 45460 Max Daily Volume (m <sup>3</sup> ): 122.7 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 01/01/2006 Version End Date: -



*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.7 Surface water abstractions

**Records within 2000m**

**0**

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.8 Potable abstractions

**Records within 2000m**

**3**

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 36**

ID	Location	Details	
-	1060m SW	Status: Historical Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT A AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468400 Northing: 113330	Annual Volume (m <sup>3</sup> ): 4,148,225 Max Daily Volume (m <sup>3</sup> ): 13638 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 11/06/2009 Version End Date: -
-	1068m SW	Status: Active Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468395 Northing: 113323	Annual Volume (m <sup>3</sup> ): 4,148,307 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: - Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2016 Version End Date: -



ID	Location	Details	
-	1069m SW	Status: Active Licence No: 11/42/33.1/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT A AT LOVEDEAN PUMPING STATION. Data Type: Point Name: Portsmouth Water Ltd Easting: 468396 Northing: 113321	Annual Volume (m <sup>3</sup> ): 4,148,307 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: - Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2016 Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>1</b>
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 36**

ID	Location	Type	Description
1	On site	1	Inner catchment

*This data is sourced from the Environment Agency and Natural Resources Wales.*

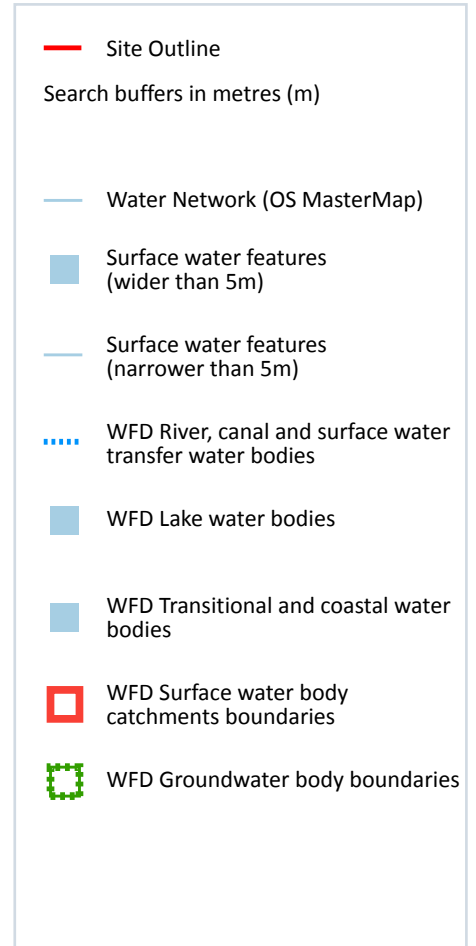
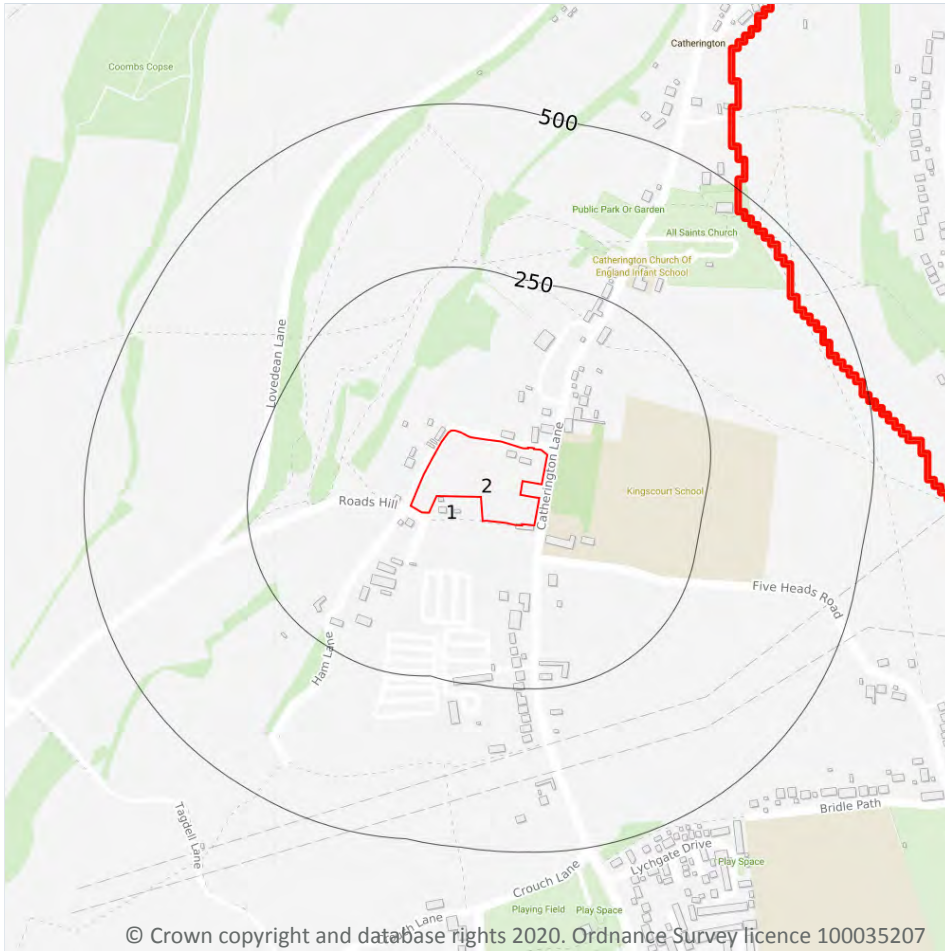
## 5.10 Source Protection Zones (confined aquifer)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.

### 6.3 WFD Surface water body catchments

<b>Records on site</b>	<b>1</b>
------------------------	----------

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Potwell Trib	GB107042016400	East Hampshire Rivers	East Hampshire

This data is sourced from the Environment Agency and Natural Resources Wales.

### 6.4 WFD Surface water bodies

<b>Records identified</b>	<b>1</b>
---------------------------	----------

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	4048m SW	River	Potwell Trib	<a href="#">GB107042016400</a>	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.



## 6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 40**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	East Hants Chalk	<a href="#">GB40701G502700</a>	Poor	Poor	Poor	2015

*This data is sourced from the Environment Agency and Natural Resources Wales.*





## 7 River and coastal flooding

### 7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 8 Surface water flooding

### 8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

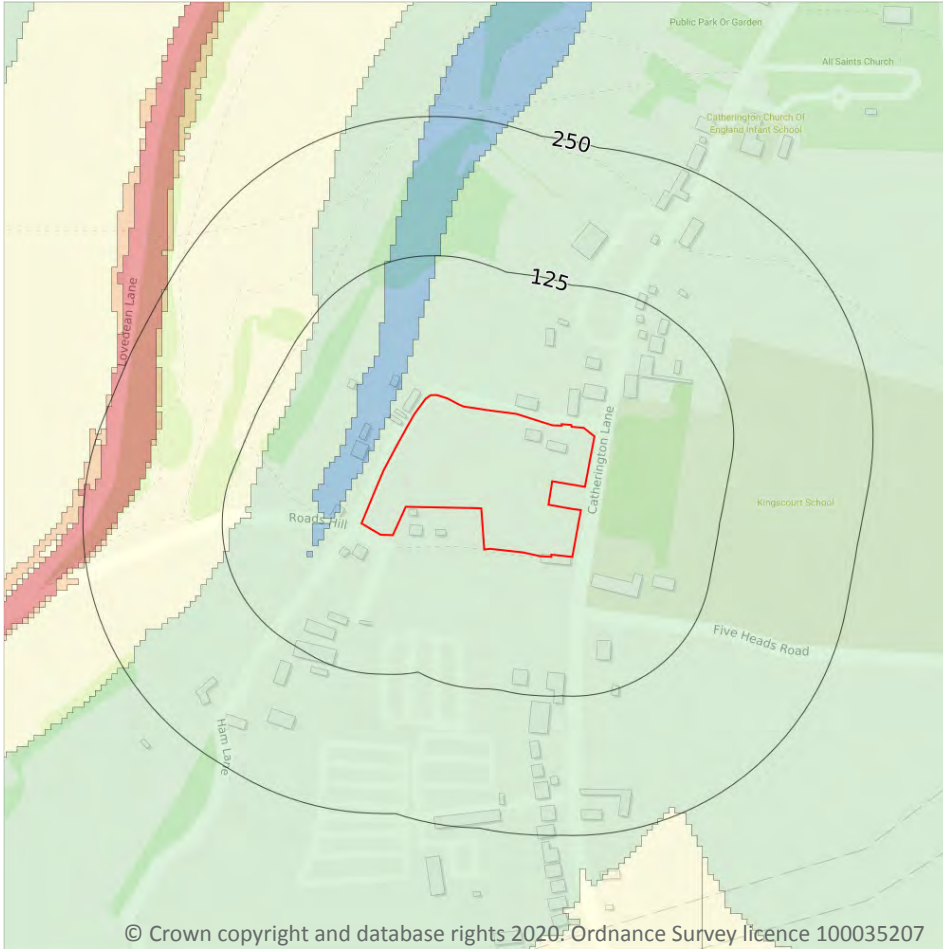
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

*This data is sourced from Ambiental Risk Analytics.*

## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

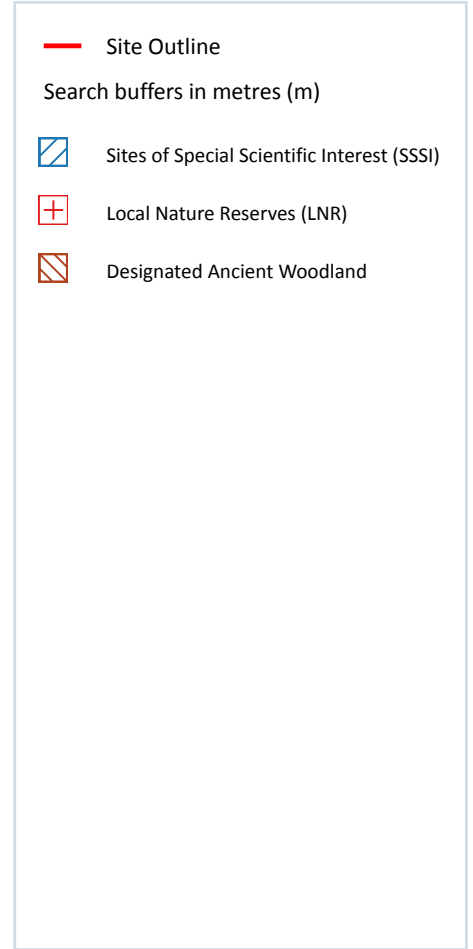
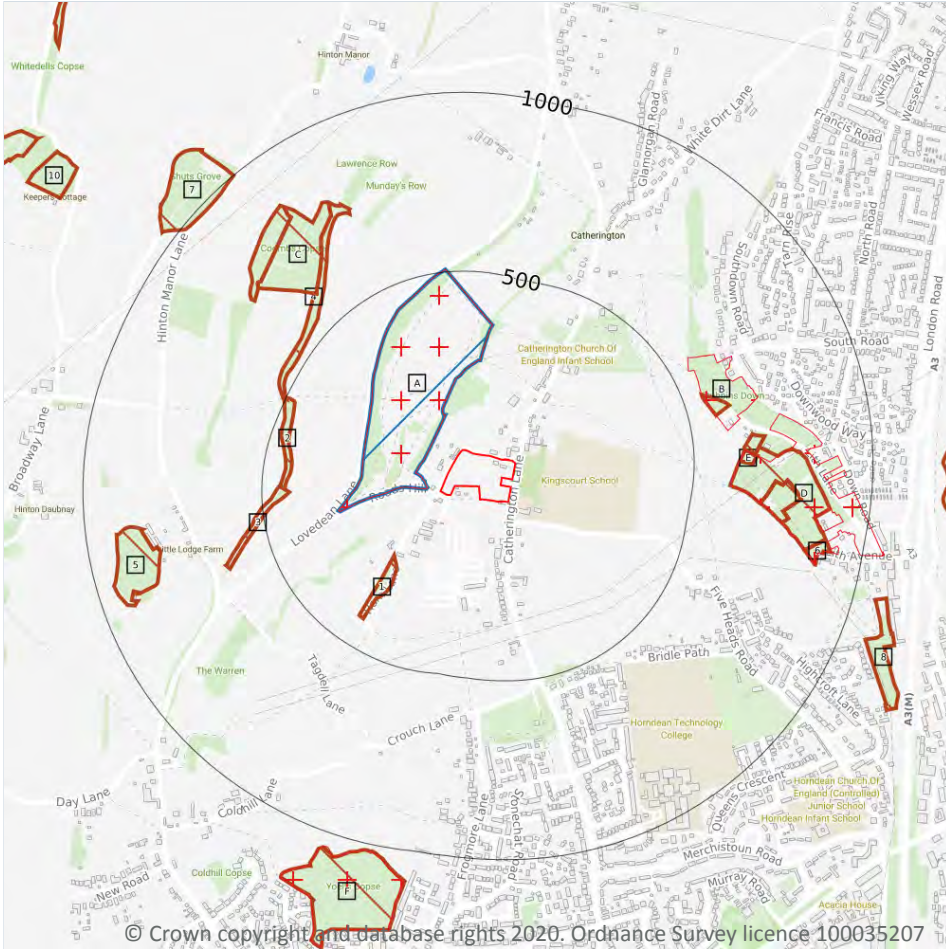
**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 47**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Data source
A	38m W	Catherington Down	Natural England

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.2 Conserved wetland sites (Ramsar sites)

**Records within 2000m**

**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.3 Special Areas of Conservation (SAC)

**Records within 2000m**

**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.4 Special Protection Areas (SPA)

**Records within 2000m**

**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

**Records within 2000m**

**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.6 Local Nature Reserves (LNR)

Records within 2000m

6

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Data source
A	38m W	Catherington Down	Natural England
B	548m NE	Catherington Lith	Natural England
D	603m E	Catherington Lith	Natural England
F	1018m S	Yeoll's Copse	Natural England
-	1487m SE	Dell Piece West	Natural England
-	1716m S	Hazleton Common LNR	Natural England

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.7 Designated Ancient Woodland

Records within 2000m

27

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 48**

ID	Location	Name	Woodland Type
1	222m SW	Unknown	Ancient & Semi-Natural Woodland
2	422m W	Unknown	Ancient & Semi-Natural Woodland
3	423m W	Unknown	Ancient & Semi-Natural Woodland
4	501m NW	Unknown	Ancient & Semi-Natural Woodland
B	554m E	Unknown	Ancient & Semi-Natural Woodland
C	598m NW	Coombs Copse	Ancient & Semi-Natural Woodland
D	603m E	Catherington Lith	Ancient & Semi-Natural Woodland





ID	Location	Name	Woodland Type
E	628m E	Catherington Lith	Ancient & Semi-Natural Woodland
E	641m E	Catherington Lith	Ancient & Semi-Natural Woodland
D	693m E	Catherington Lith	Ancient & Semi-Natural Woodland
C	714m NW	Coombs Copse	Ancient & Semi-Natural Woodland
5	801m W	Rabbit Copse	Ancient & Semi-Natural Woodland
6	839m E	Catherington Lith	Ancient & Semi-Natural Woodland
7	981m NW	Unknown	Ancient & Semi-Natural Woodland
F	1018m S	Yoells Copse	Ancient & Semi-Natural Woodland
8	1061m E	Unknown	Ancient & Semi-Natural Woodland
9	1196m E	Blendworth Lith	Ancient & Semi-Natural Woodland
10	1324m NW	Prew's Hanger	Ancient & Semi-Natural Woodland
-	1384m W	Crabdens Row	Ancient & Semi-Natural Woodland
12	1472m NW	Prew's Hanger	Ancient & Semi-Natural Woodland
-	1483m W	Crabdens Row	Ancient & Semi-Natural Woodland
15	1596m NW	Ludmore Hanger	Ancient & Semi-Natural Woodland
-	1714m S	James's Copse	Ancient Replanted Woodland
-	1782m SW	Crabdens Copse	Ancient & Semi-Natural Woodland
-	1905m SE	Unknown	Ancient & Semi-Natural Woodland
-	1923m W	Stoneacre Copse	Ancient & Semi-Natural Woodland
-	1997m S	Unknown	Ancient & Semi-Natural Woodland

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.8 Biosphere Reserves

**Records within 2000m**

**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*



## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

4

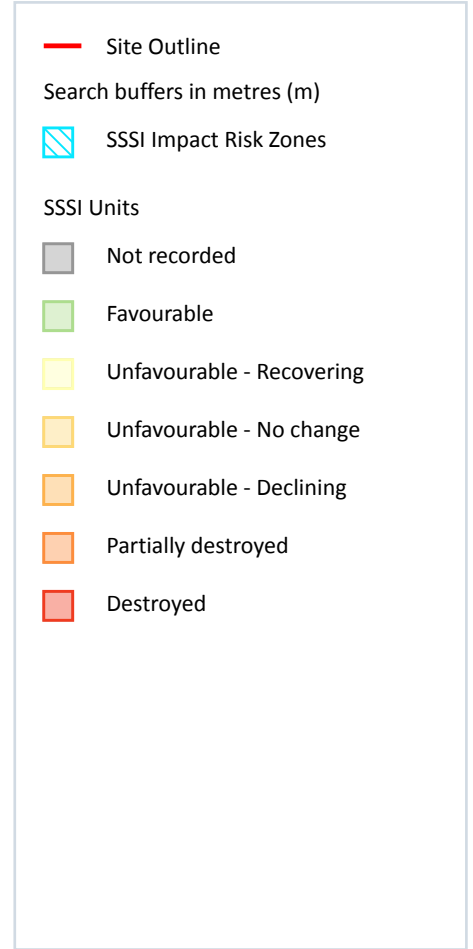
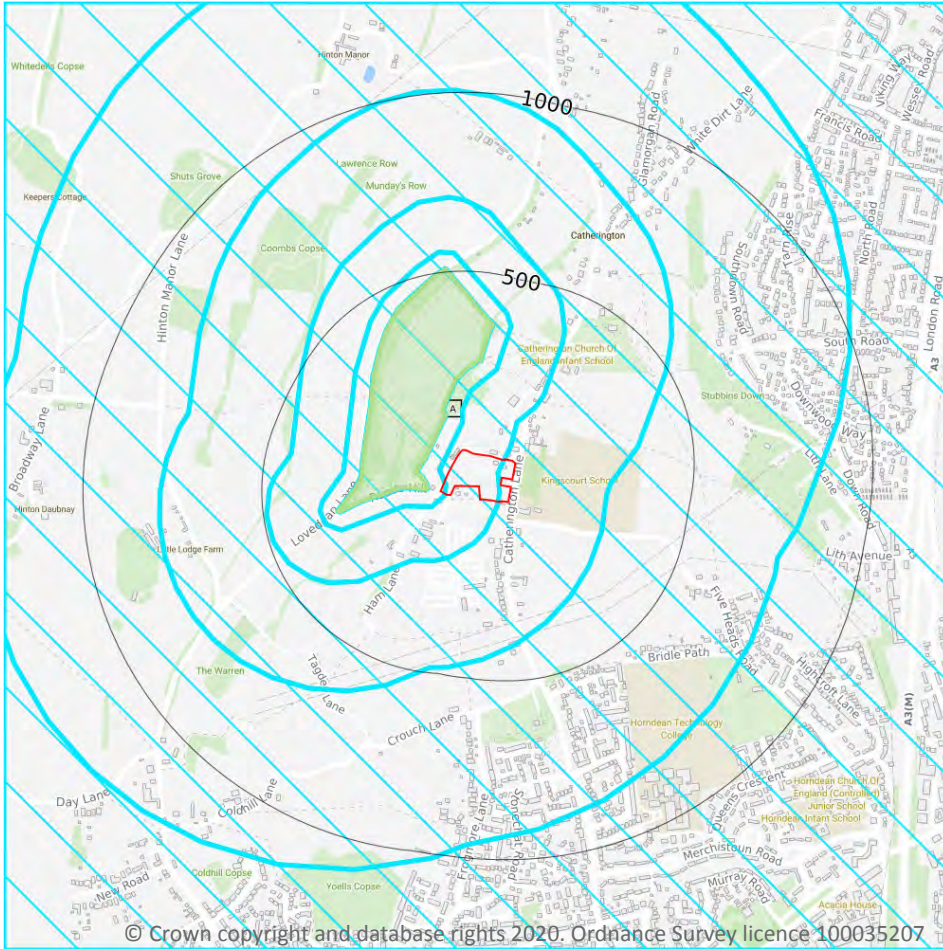
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Hampshire Chalk	Groundwater	G143	Existing
On site	Chichester,Langstone and Portsmouth Harbours Eutrophic NVZ (TraC)	Eutrophic Water	ET2	Existing
1808m N	Chichester,Langstone and Portsmouth Harbours Eutrophic NVZ (TraC)	Eutrophic Water	ET2	Existing
1808m N	Hampshire Chalk	Groundwater	G143	Existing

*This data is sourced from Natural England and Natural Resources Wales.*



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

Records on site

3

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 54**

ID	Location	Type of developments requiring consultation
A	On site	<b>All applications - All Planning Applications - Except Householder Applications.</b> <b>Notes: SOLENT NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied. LPA to refer to Natural England's Solent Nutrient Neutrality Advice Note June 2019.</b>

ID	Location	Type of developments requiring consultation
A	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock &amp; poultry units, slurry lagoons/manure stores).</p> <p>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management</p> <p>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Notes: SOLENT NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied. LPA to refer to Natural England's Solent Nutrient Neutrality Advice Note June 2019.</p>
A	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock &amp; poultry units, slurry lagoons/manure stores).</p> <p>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management</p> <p>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Notes: SOLENT NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied. LPA to refer to Natural England's Solent Nutrient Neutrality Advice Note June 2019.</p>

*This data is sourced from Natural England.*

## 10.18 SSSI Units

Records within 2000m

1

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 54**



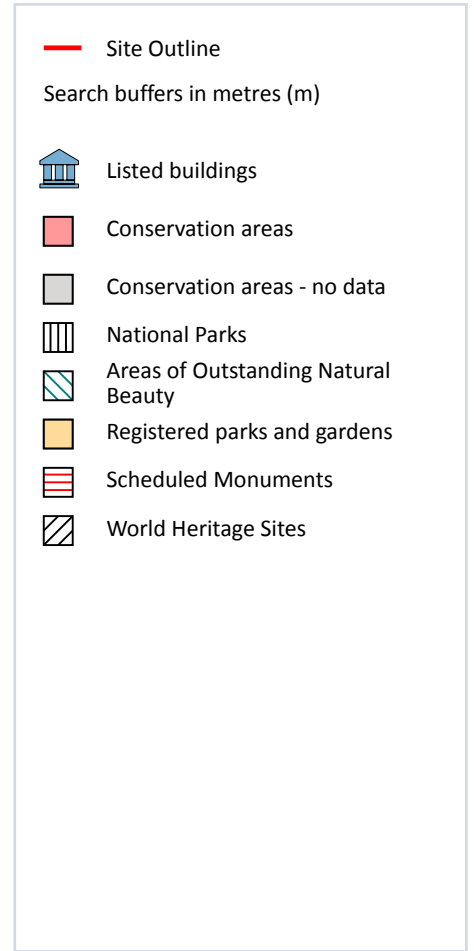
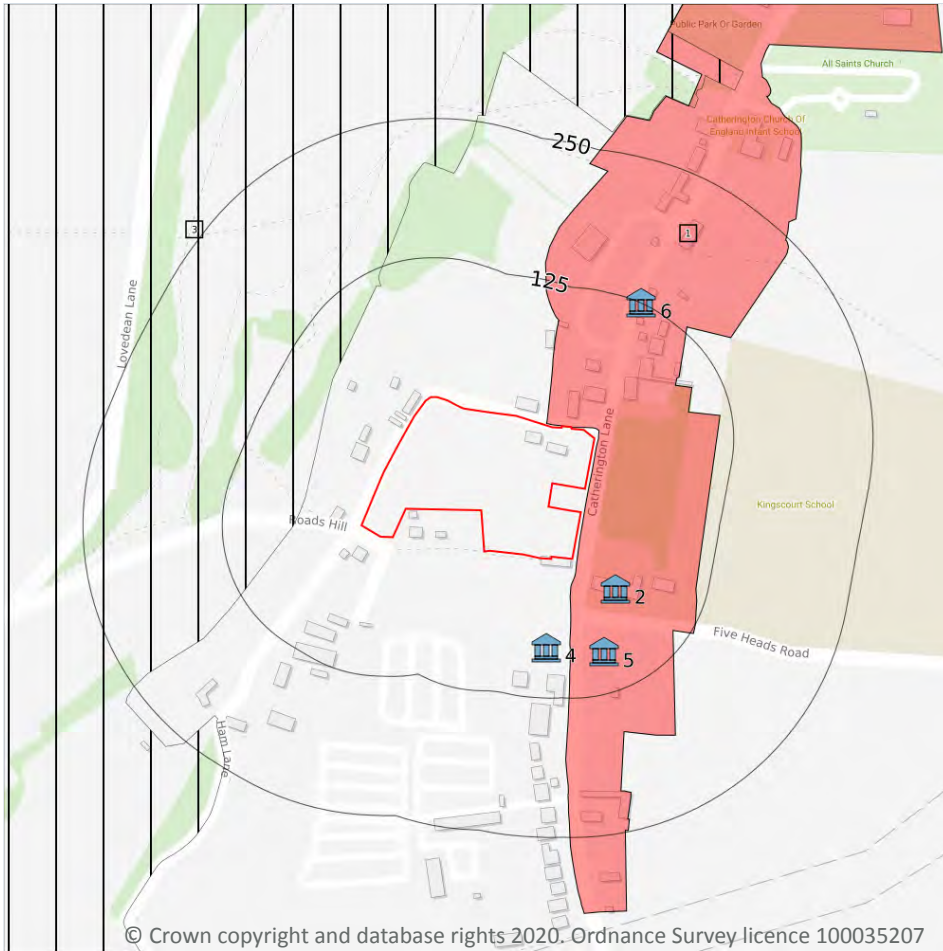
ID: A  
Location: 38m W  
SSSI name: Catherington Down  
Unit name: Catherington Down  
Broad habitat: Calcareous Grassland - Lowland  
Condition: Favourable  
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG2)	Favourable	30/03/2015
Lowland calcareous grassland (CG3-5)	Favourable	30/03/2015
Lowland mixed deciduous woodland	Favourable	30/03/2015

*This data is sourced from Natural England and Natural Resources Wales.*



## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 11.3 National Parks

Records within 250m

1

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Name	Data Source
3	56m W	South Downs	Natural England

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

## 11.4 Listed Buildings

Records within 250m

4

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Name	Grade	Reference Number	Listed date
2	47m SE	Catherington House, Horndean, East Hampshire, Hampshire, PO8	II	1179074	16/03/1954





ID	Location	Name	Grade	Reference Number	Listed date
4	80m S	Granary 30 Metres West Of The Farmhouse, Horndean, East Hampshire, Hampshire, PO8	II	1351109	12/03/1986
5	88m S	The Farmhouse, Horndean, East Hampshire, Hampshire, PO8	II	1179073	12/03/1986
6	125m NE	Catherington Cottage, Horndean, East Hampshire, Hampshire, PO8	II	1094568	12/03/1986

*This data is sourced from English Heritage, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

**Records within 250m**

**1**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 57**

ID	Location	Name	District	Date of designation
1	On site	Catherington, East Hampshire	East Hampshire	11/02/2003

*This data is sourced from English Heritage, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

**Records within 250m**

**0**

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

*This data is sourced from English Heritage, Cadw and Historic Environment Scotland.*



## 11.7 Registered Parks and Gardens

Records within 250m

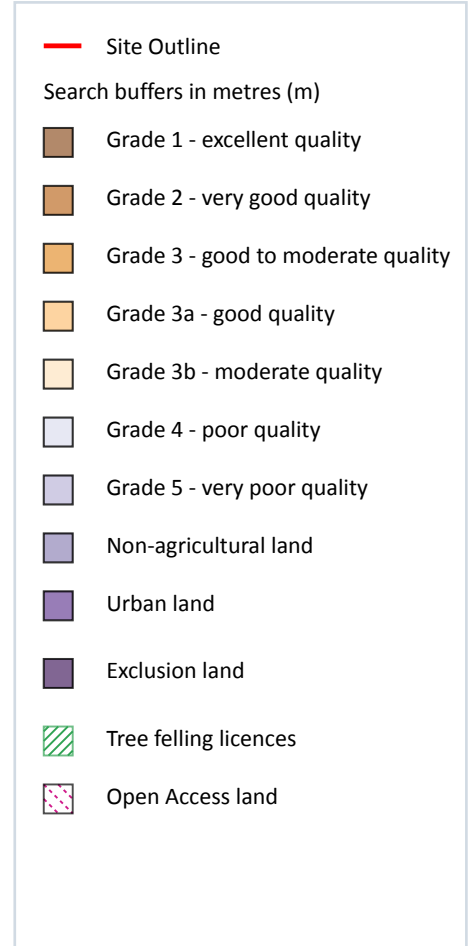
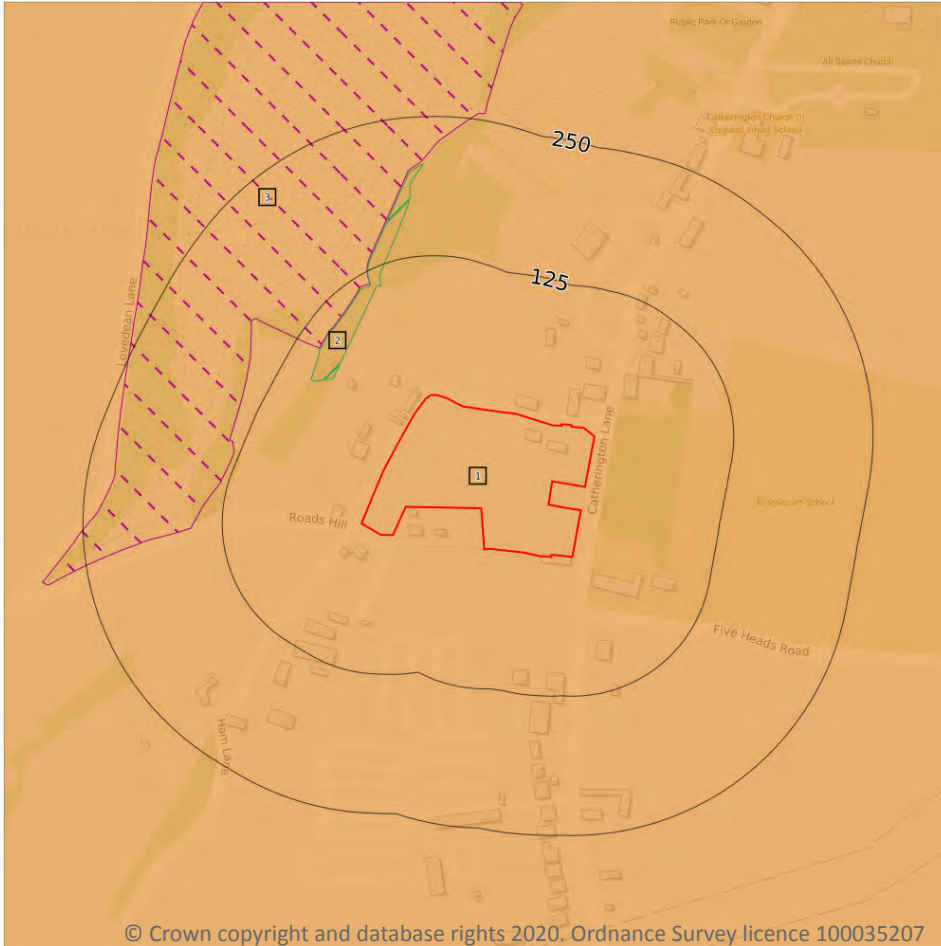
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from English Heritage, Cadw and Historic Environment Scotland.*



## 12 Agricultural designations



### 12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 61**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

*This data is sourced from Natural England.*

## 12.2 Open Access Land

<b>Records within 250m</b>	<b>1</b>
----------------------------	----------

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on **page 61**

ID	Location	Name	Classification	Other relevant legislation
3	104m NW	-	Section 4 Conclusive Open Country	-

*This data is sourced from Natural England and Natural Resources Wales.*

## 12.3 Tree Felling Licences

<b>Records within 250m</b>	<b>1</b>
----------------------------	----------

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 61**

ID	Location	Description	Reference	Application date
2	79m NW	Selective Fell/Thin (Unconditional)	019/119/16-17	10/01/2017

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

<b>Records within 250m</b>	<b>3</b>
----------------------------	----------

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

Location	Reference	Scheme	Start Date	End date
38m NW	AG00370682	Higher Level Stewardship	01/02/2012	31/01/2022
161m SE	AG00475911	Entry Level Stewardship	01/11/2013	31/10/2018
238m NW	AG00298822	Entry Level plus Higher Level Stewardship	01/12/2009	30/11/2020

*This data is sourced from Natural England.*



## 12.5 Countryside Stewardship Schemes

Records within 250m

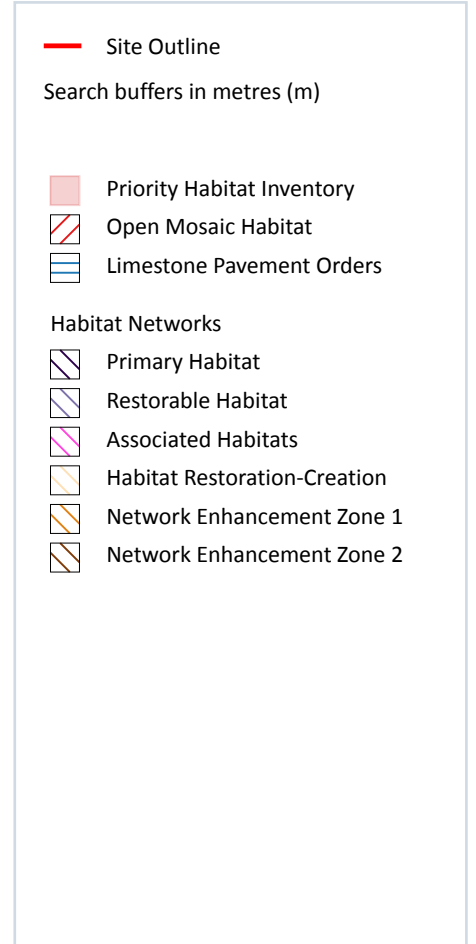
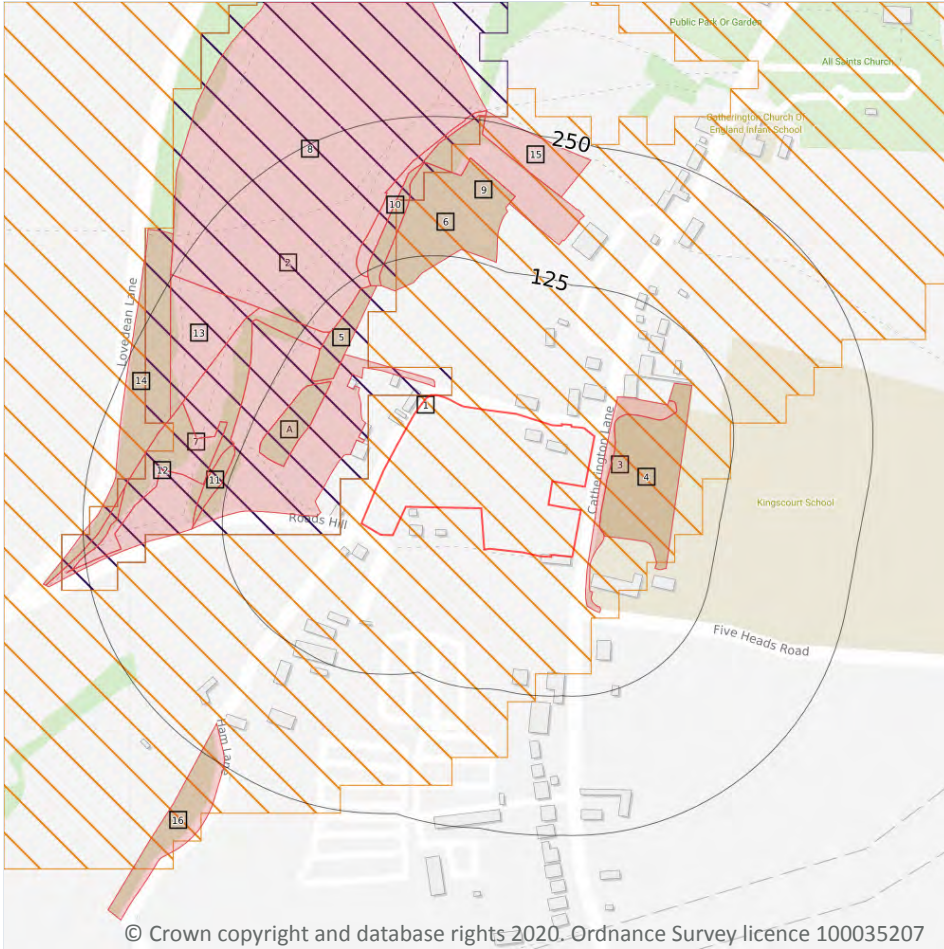
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*



## 13 Habitat designations



### 13.1 Priority Habitat Inventory

Records within 250m

16

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 64**

ID	Location	Main Habitat	Other habitats
A	7m N	Lowland calcareous grassland	Main habitat: DWOOD (ENSIS L1); LCGRA (ENSIS L1, FEP + HLS); Additional: LMEAD (INV 50%, FEP 50%)
3	12m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	18m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
A	77m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LCGRA (ENSIS L1, FEP + HLS); Additional: LMEAD (FEP 50%)
5	79m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LCGRA (ENSIS L1, FEP + HLS); Additional: LMEAD (FEP 50%)
6	99m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	103m NW	Lowland calcareous grassland	Main habitat: LMEAD (INV > 50%); DWOOD (ENSIS L1); LCGRA (ENSIS L1, FEP + HLS)
8	104m NW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%, ENSIS L1, FEP + HLS); DWOOD (ENSIS L1); Additional: LMEAD (FEP 50%)
9	108m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	120m NW	Lowland calcareous grassland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LCGRA (INV > 50%, ENSIS L1, FEP + HLS); Additional: LMEAD (FEP 50%)
11	129m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LCGRA (ENSIS L1, FEP + HLS); Additional: LMEAD (FEP 50%)
12	145m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LMEAD (INV > 50%); LCGRA (ENSIS L1, FEP + HLS)
13	169m NW	Lowland calcareous grassland	Main habitat: LMEAD (INV > 50%); DWOOD (ENSIS L1); LCGRA (ENSIS L1, FEP + HLS)
14	195m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1); LCGRA (ENSIS L1, FEP + HLS); Additional: LMEAD (INV 50%, FEP 50%)
15	199m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	222m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**2**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on **page 64**

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 1	Not specified
2	On site	Primary Habitat	Lowland calcareous grassland



*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

Records within 250m

0

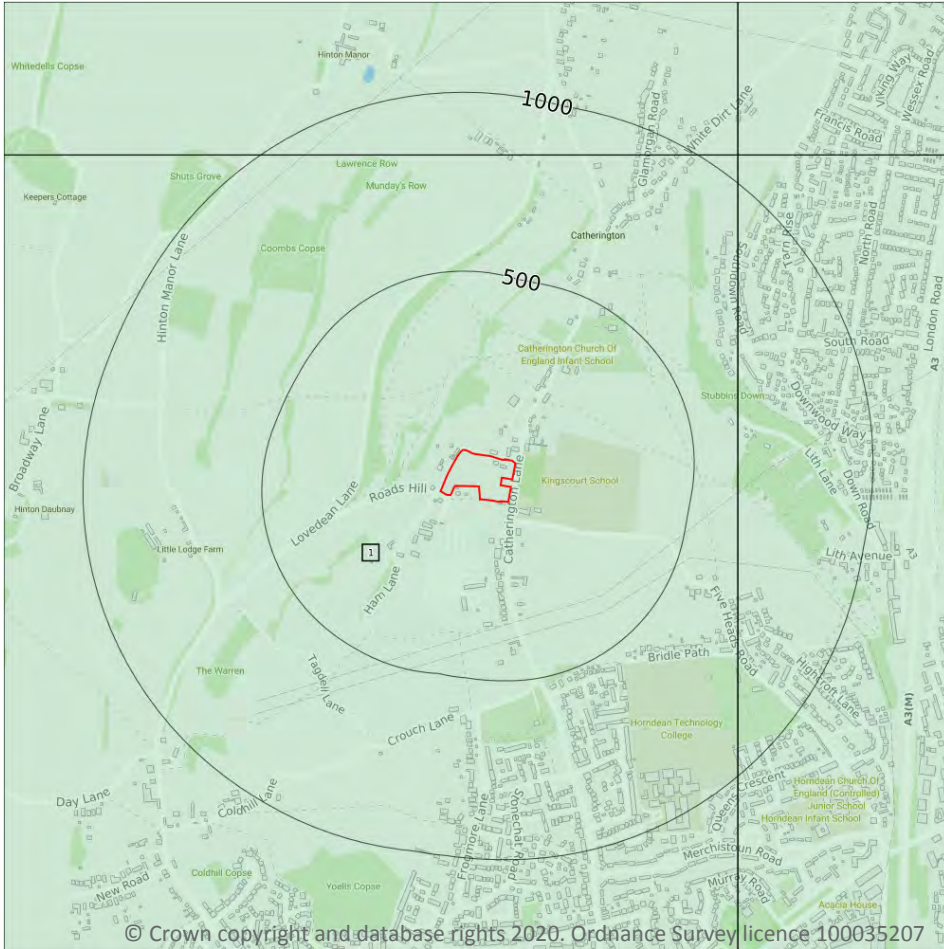
Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*





## 14 Geology 1:10,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 67**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU61SE

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Artificial and made ground

### 14.2 Artificial and made ground (10k)

Records within 500m

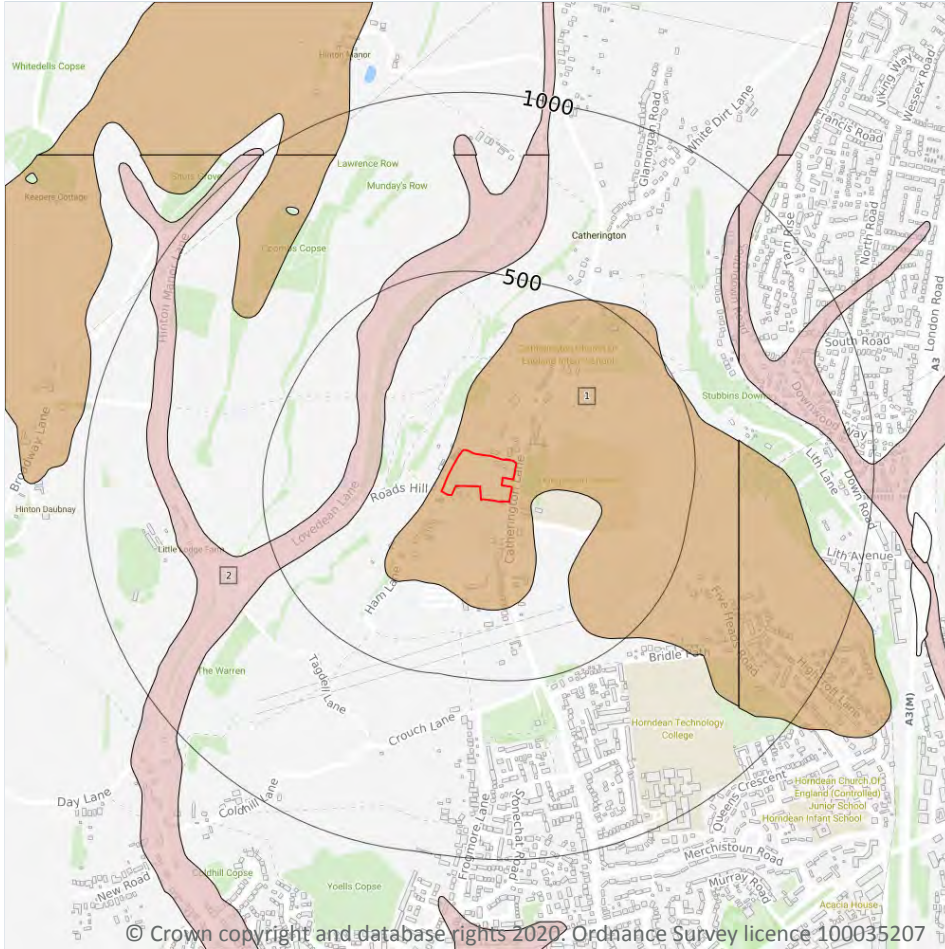
0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

Records within 500m

2

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 69**

ID	Location	LEX Code	Description	Rock description
1	On site	CWF-XCZSV	Clay-with-flints Formation - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	186m W	HEAD-DMTN	Head - Diamicton	Diamicton

*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

Records within 500m

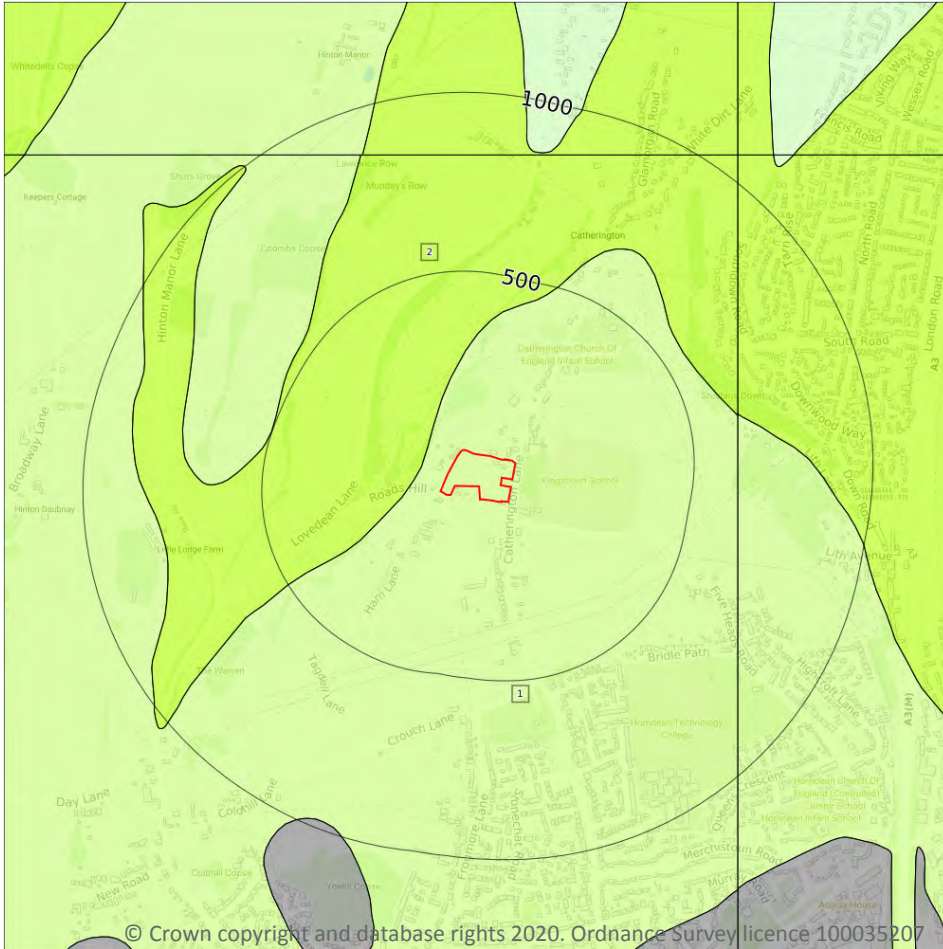
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- .... Bedrock faults and other linear features (10k)
- Bedrock geology (10k)  
Please see table for more details.

### 14.5 Bedrock geology (10k)

Records within 500m

2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 71**

ID	Location	LEX Code	Description	Rock age
1	On site	TACH-CHLK	Tarrant Chalk Member - Chalk	Campanian Age
2	76m NW	NCK-CHLK	Newhaven Chalk Formation - Chalk	Campanian Age - Santonian Age

*This data is sourced from the British Geological Survey.*



## 14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 73**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW316_fareham_v4

This data is sourced from the British Geological Survey.



## Geology 1:50,000 scale - Artificial and made ground

### 15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

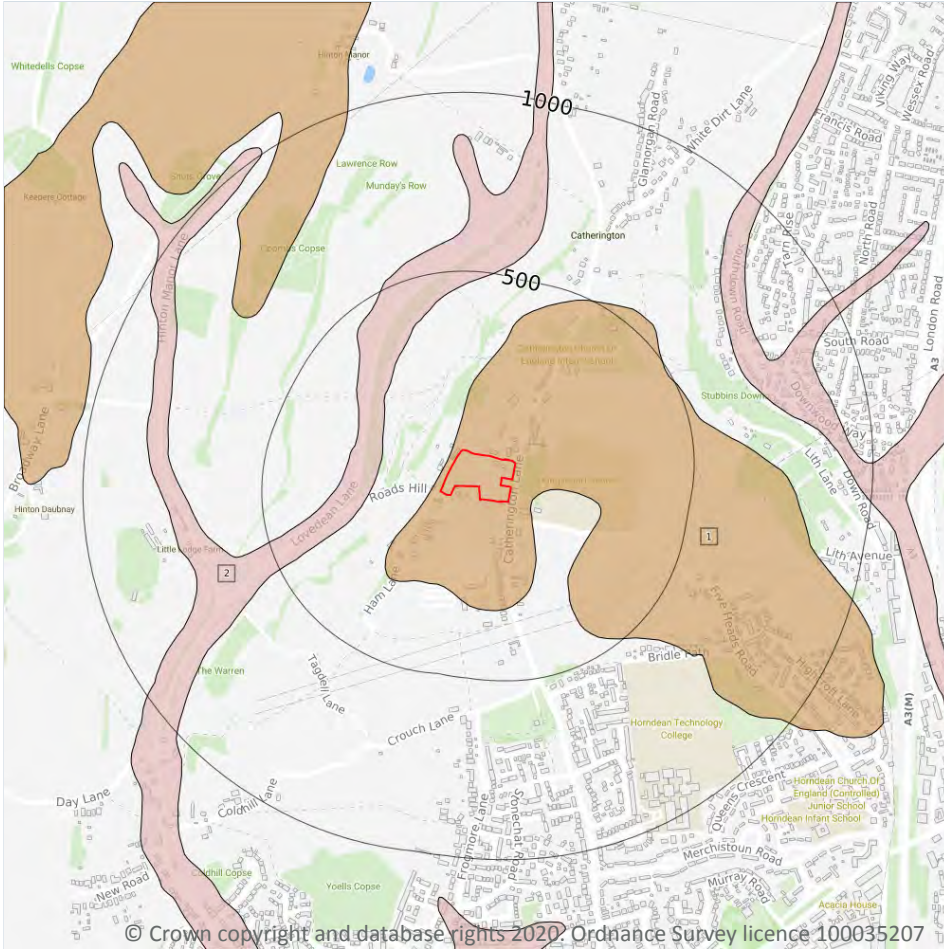
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 75**

ID	Location	LEX Code	Description	Rock description
1	On site	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL
2	183m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



## 15.5 Superficial permeability (50k)

**Records within 50m** **1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Very Low

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

**Records within 500m** **0**

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

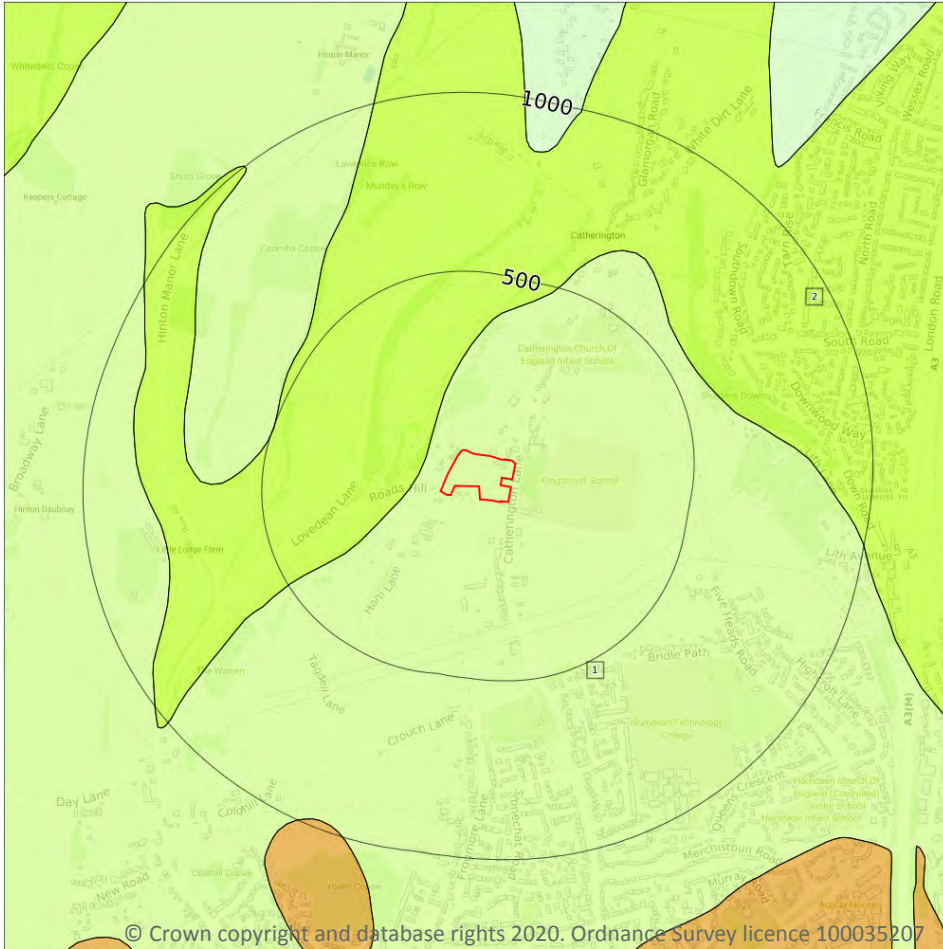
## 15.7 Landslip permeability (50k)

**Records within 50m** **0**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- .... Bedrock faults and other linear features (50k)
- Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 77**

ID	Location	LEX Code	Description	Rock age
1	On site	TACH-CHLK	TARRANT CHALK MEMBER - CHALK	CAMPANIAN
2	74m NW	NCK-CHLK	NEWHAVEN CHALK FORMATION - CHALK	SANTONIAN

*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

<b>Records within 50m</b>	<b>1</b>
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Very High	Very High

*This data is sourced from the British Geological Survey.*

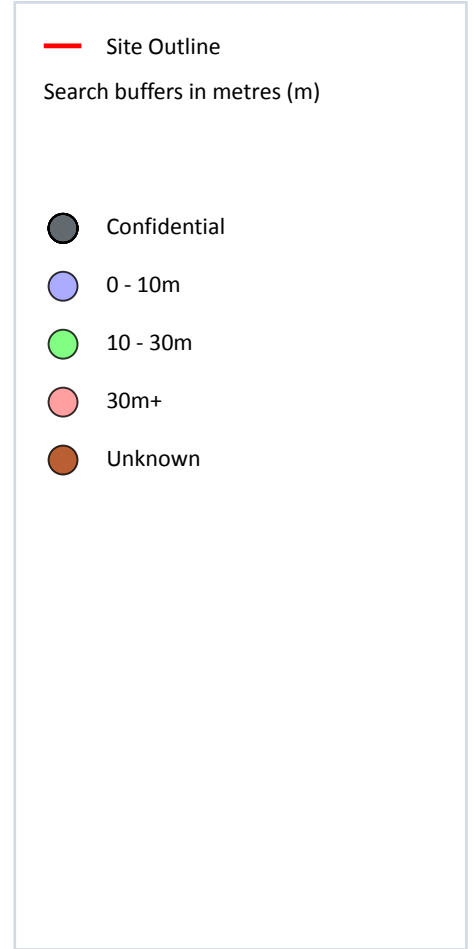
## 15.10 Bedrock faults and other linear features (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*

## 16 Boreholes



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### 16.1 BGS Boreholes

#### Records within 250m

1

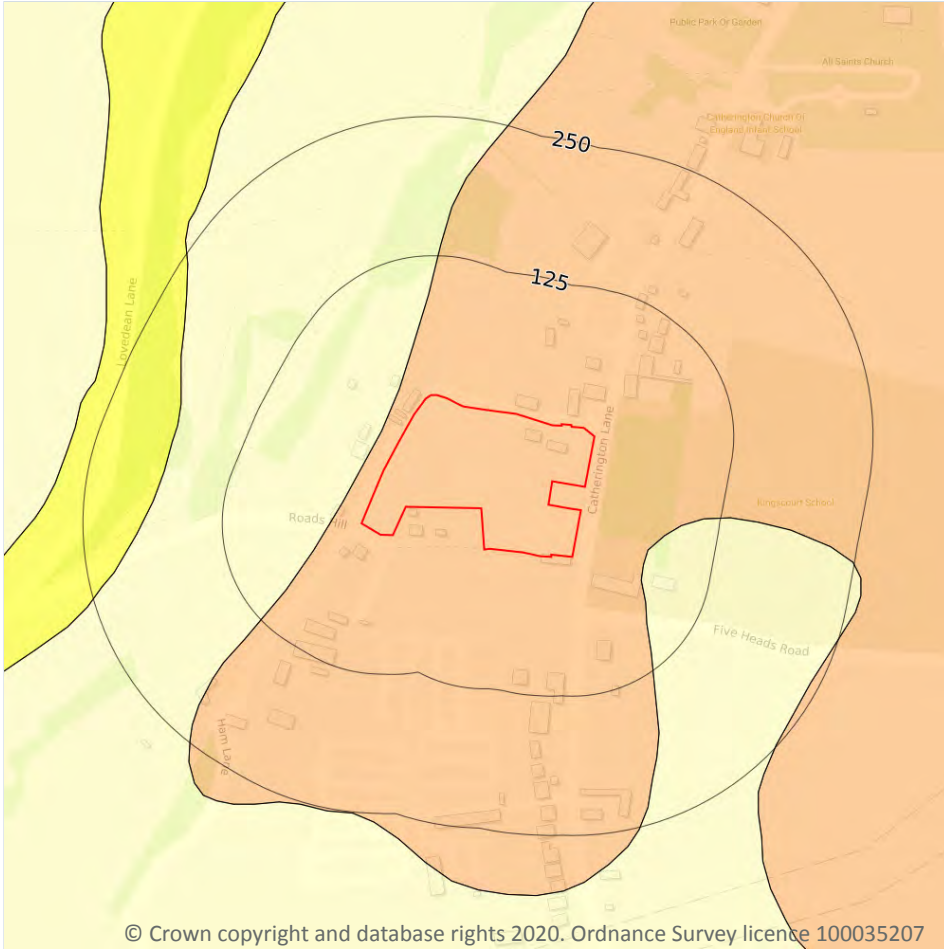
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 79**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	194m N	469430 114330	CATHERINGTON	90.07	N	<a href="#">421476</a>

*This data is sourced from the British Geological Survey.*

## 17 Natural ground subsidence - Shrink swell clays



— Site Outline  
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

### 17.1 Shrink swell clays

Records within 50m

2

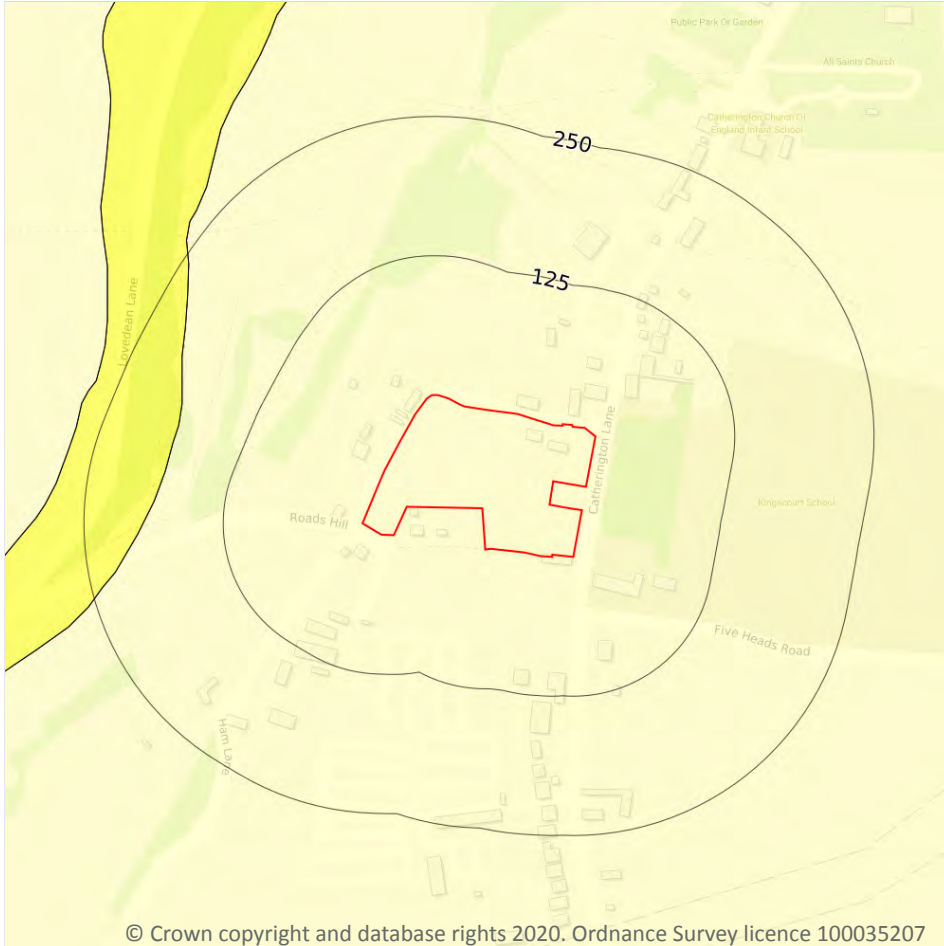
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 80**

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.
18m NW	Negligible	Ground conditions predominantly non-plastic.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Running sands



— Site Outline  
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

### 17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 81**

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Compressible deposits



— Site Outline  
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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### 17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

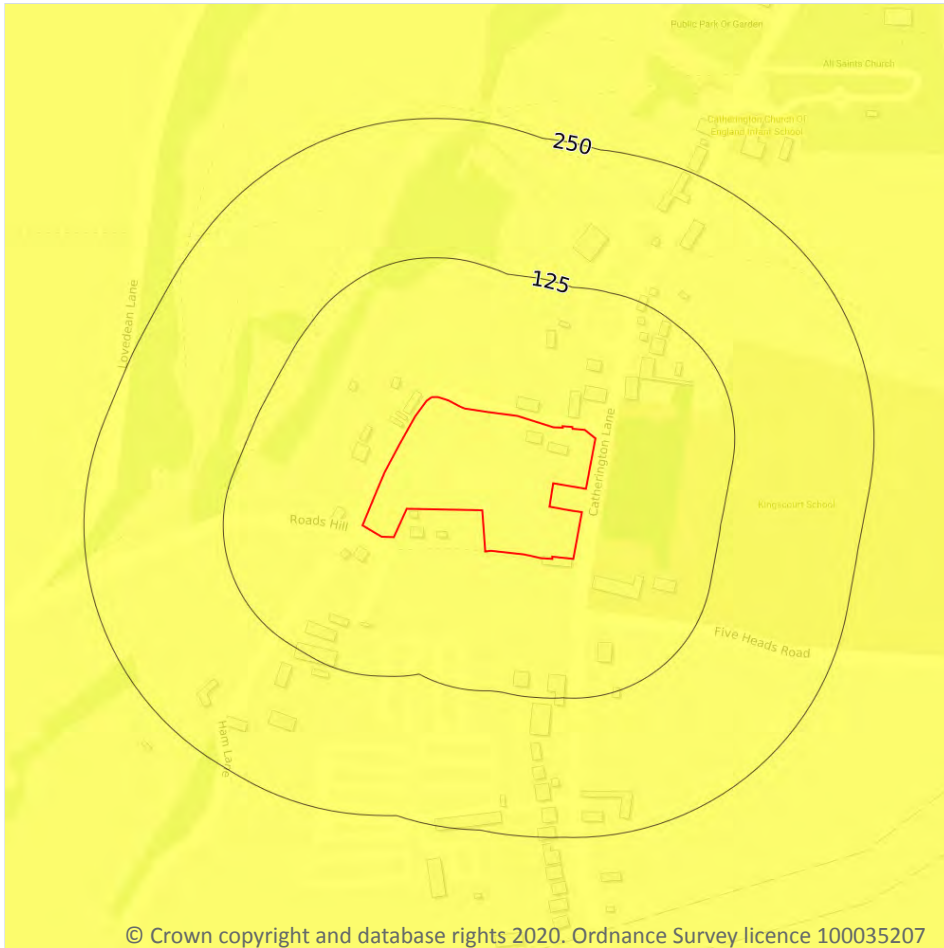
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 82**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



— Site Outline  
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

### 17.4 Collapsible deposits

Records within 50m

1

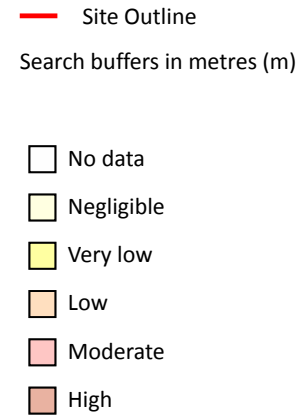
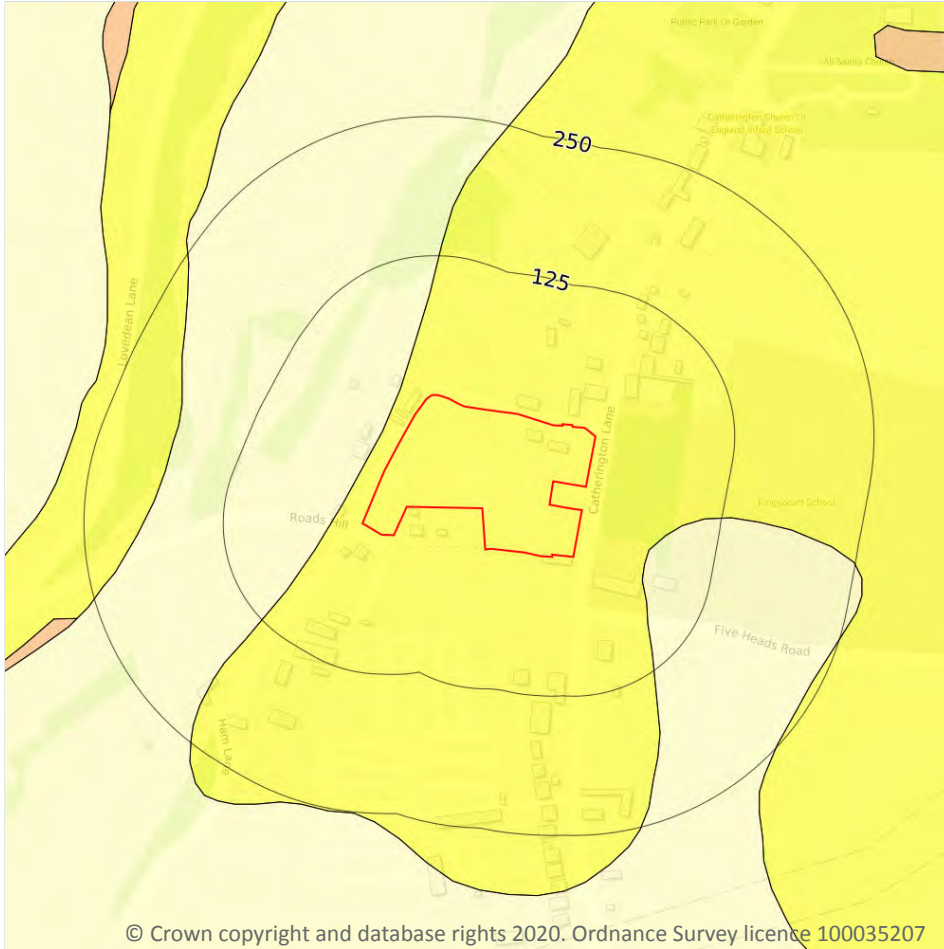
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 83**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Landslides



### 17.5 Landslides

Records within 50m

2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 84**

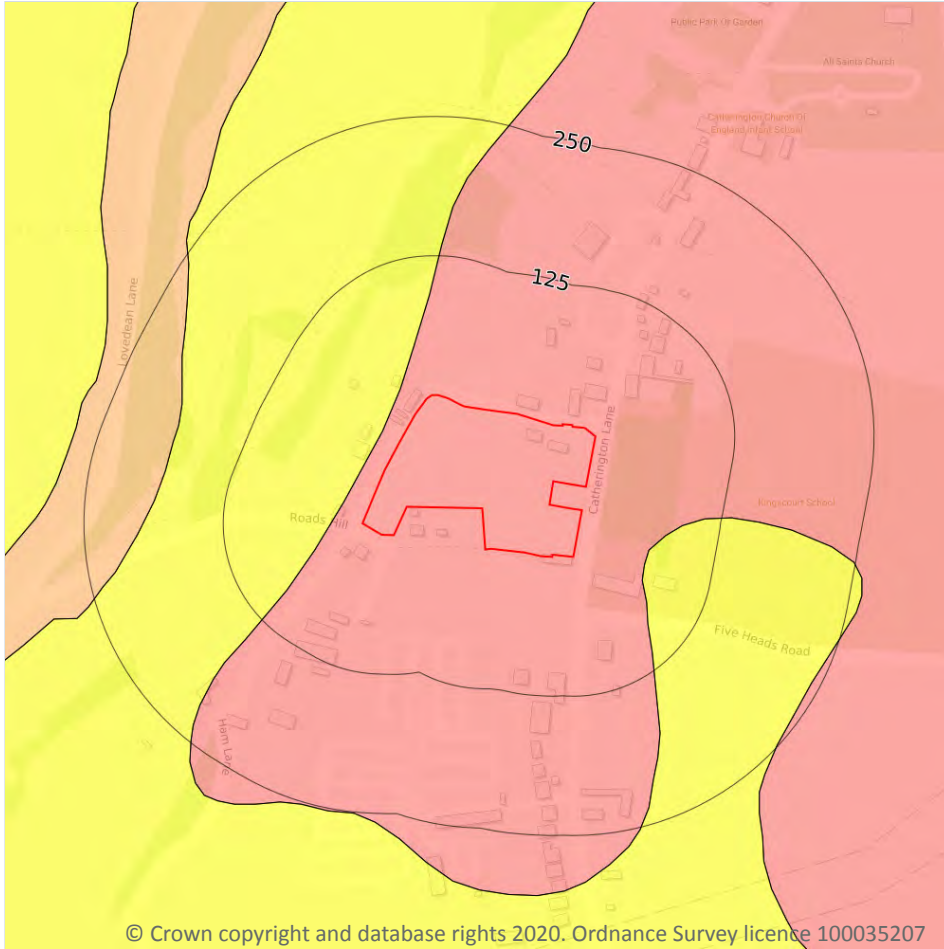
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
18m NW	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



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### 17.6 Ground dissolution of soluble rocks

Records within 50m

2

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 86**

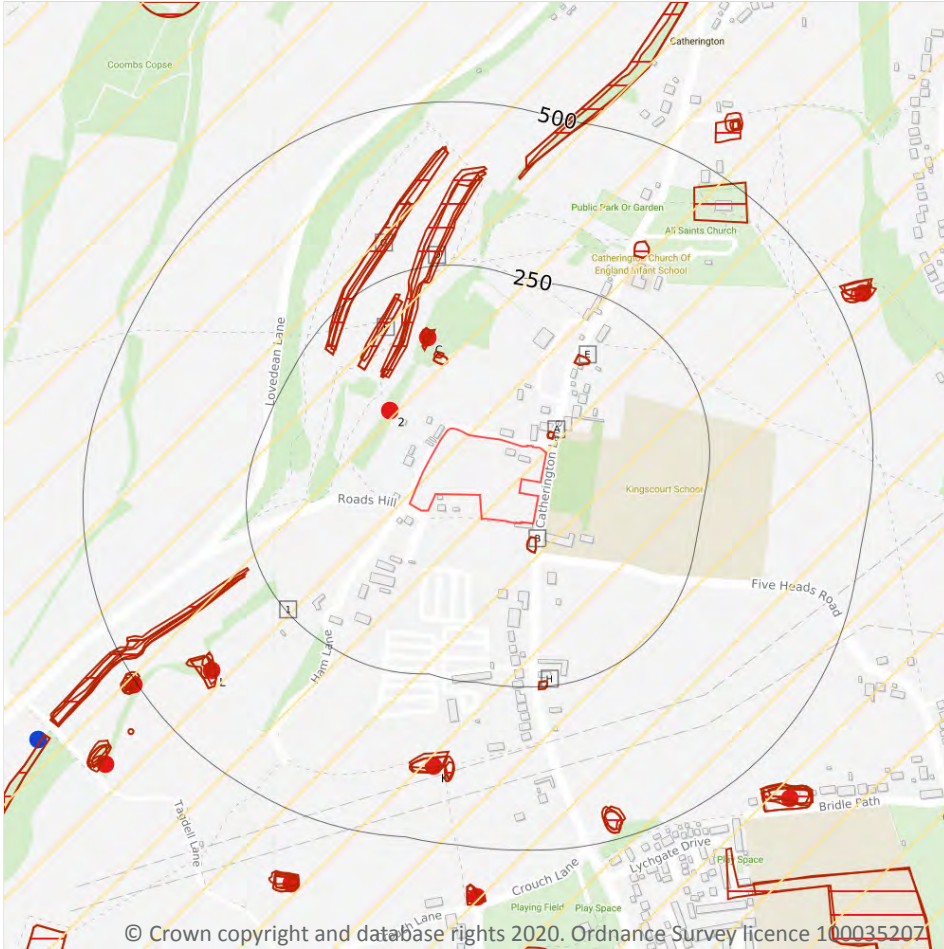
Location	Hazard rating	Details
On site	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

Location	Hazard rating	Details
18m NW	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Peter Brett Associates (PBA).*

## 18.2 BritPits

Records within 500m

5

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Details	Description
2	89m NW	Name: Catherington Chalk Pit Address: Catherington, WATERLOOVILLE, Hampshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	143m N	Name: Cathrington Duw Chalk Pit Address: Catherington, WATERLOOVILLE, Hampshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	385m S	Name: Coldhill Lane Chalk Pit Address: Horndean, WATERLOOVILLE, Hampshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	388m S	Name: Tagdell Lane Chalk Pit Address: Horndean, WATERLOOVILLE, Hampshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	396m SW	Name: Catherington Chalk Pit Address: Catherington, WATERLOOVILLE, Hampshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

*This data is sourced from the British Geological Survey.*



## 18.3 Surface ground workings

Records within 250m

25

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Land Use	Year of mapping	Mapping scale
A	20m NE	Pond	1933	1:10560
A	20m NE	Pond	1908	1:10560
B	21m S	Pond	1933	1:10560
B	21m S	Pond	1908	1:10560
C	99m N	Unspecified Pit	1933	1:10560
C	99m N	Old Chalk Pits	1908	1:10560
C	109m N	Unspecified Pit	1867	1:10560
D	121m NW	Unspecified Ground Workings	1895	1:10560
C	126m N	Old Chalk Pit	1895	1:10560
D	127m NW	Unspecified Ground Workings	1933	1:10560
D	127m NW	Unspecified Ground Workings	1908	1:10560
D	131m NW	Unspecified Ground Workings	1959	1:10560
C	136m N	Unspecified Pit	1933	1:10560
C	136m N	Old Chalk Pits	1908	1:10560
E	141m NE	Pond	1933	1:10560
E	141m NE	Pond	1908	1:10560
F	157m NW	Unspecified Ground Workings	1933	1:10560
F	157m NW	Unspecified Ground Workings	1908	1:10560
F	166m NW	Unspecified Ground Workings	1959	1:10560
G	210m NW	Unspecified Ground Workings	1933	1:10560
G	210m NW	Unspecified Ground Workings	1908	1:10560
G	211m NW	Unspecified Ground Workings	1895	1:10560
G	221m NW	Unspecified Ground Workings	1959	1:10560





ID	Location	Land Use	Year of mapping	Mapping scale
H	242m S	Pond	1933	1:10560
H	242m S	Pond	1908	1:10560

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

<b>Records within 1000m</b>	<b>0</b>
-----------------------------	----------

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

<b>Records within 1000m</b>	<b>3</b>
-----------------------------	----------

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Chalk	A	<b>Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered</b>
-	622m E	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
-	825m N	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

**Records within 1000m** **0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Peter Brett Associates (PBA).*

## 18.8 JPB mining areas

**Records on site** **0**

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

**Records on site** **0**

Areas which could be affected by past, current or future coal mining.

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

**Records on site** **0**

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*



### 18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Mining Searches UK.*

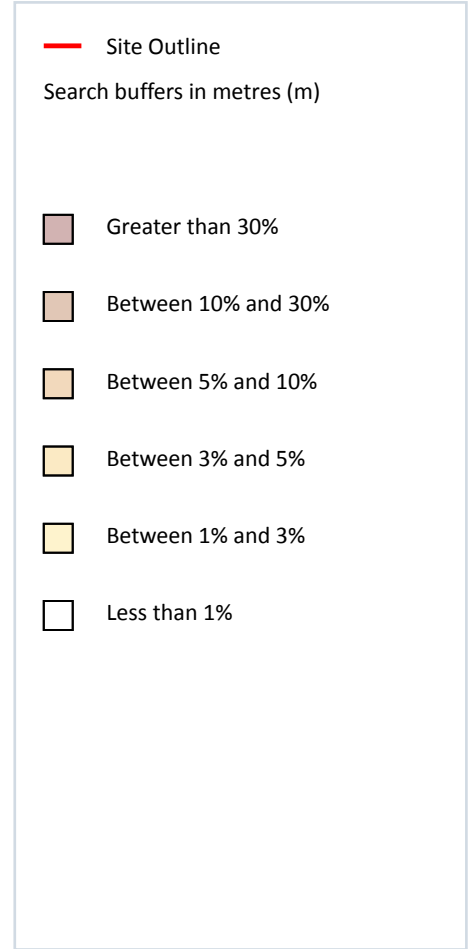
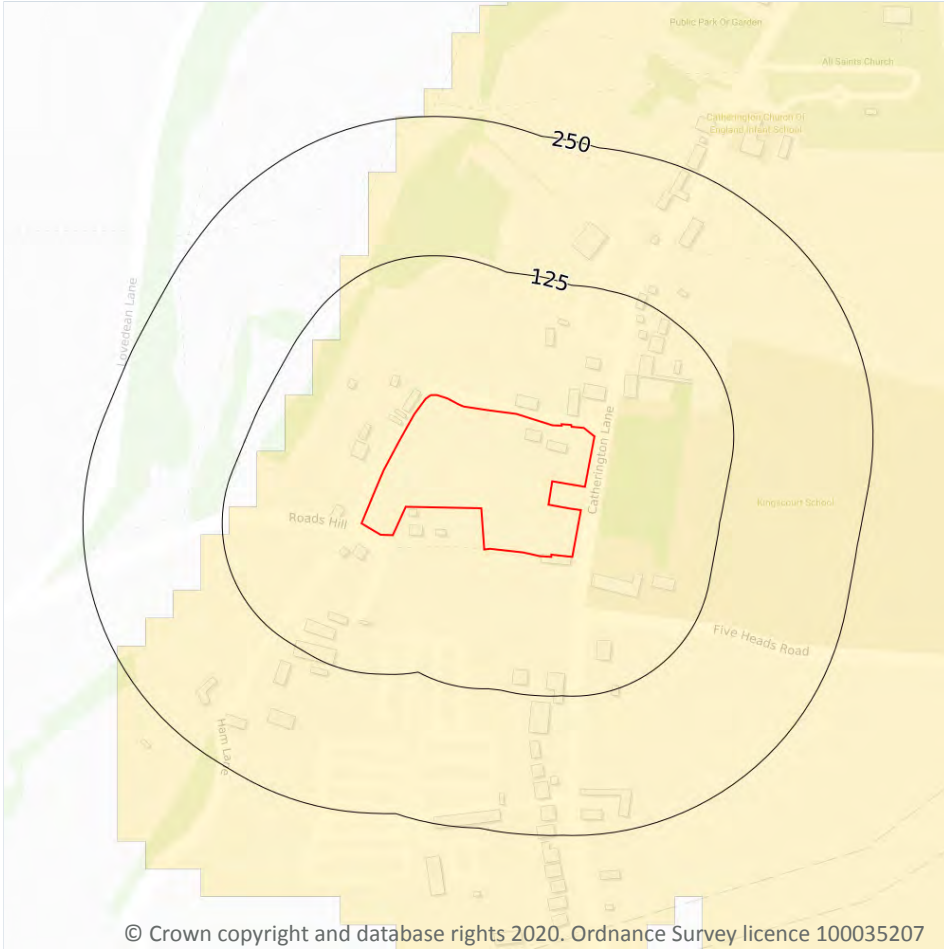
### 18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*

## 19 Radon



### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 94**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None

*This data is sourced from the British Geological Survey and Public Health England.*

## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
18m NW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*

### 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

Records within 250m	0
---------------------	---

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

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m	0
---------------------	---

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

*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

Records within 250m	0
---------------------	---

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

Records within 250m	0
---------------------	---

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

*This data is sourced from Ordnance Survey/Groundsure.*

### 21.5 Royal Mail tunnels

Records within 250m	0
---------------------	---

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



*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m** **0**

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

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m** **0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

**Records within 500m** **0**

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

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

**Records within 500m** **0**

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

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

**Records within 500m** **0**

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

*This data is sourced from HS2 Ltd.*



---

## Data providers

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

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APPENDIX C  
HISTORICAL MAPPING

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PO8 0TG

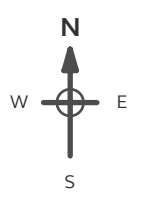
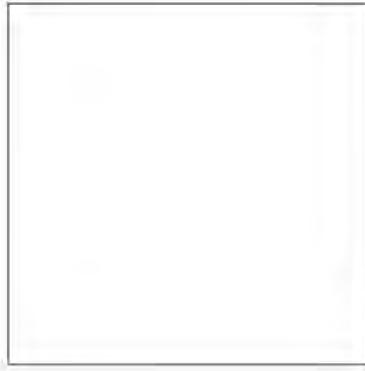
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**Map date:** 1867

**Scale:** 1:10,560

**Printed at:** 1:10,560

Surveyed 1867  
Revised 1887  
Edition N/A  
Copyright N/A  
Levelled N/A

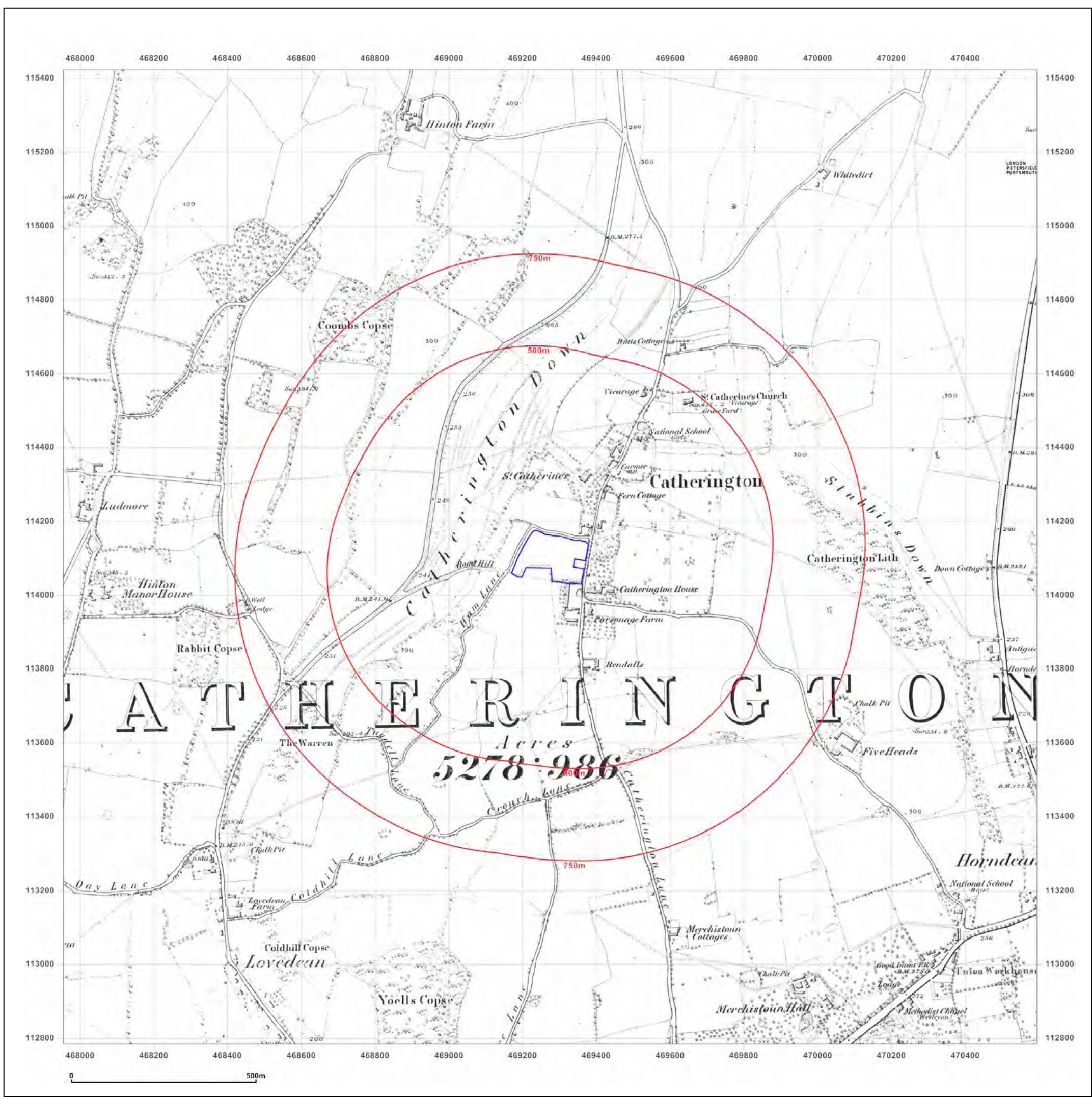


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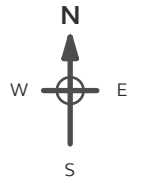
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**Report Ref:** GS-7201413  
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**Map Name:** County Series  
**Map date:** 1895-1897  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



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 Edition 1897  
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**Report Ref:** GS-7201413  
**Grid Ref:** 469273, 114103

**Map Name:** County Series

**Map date:** 1907-1908

**Scale:** 1:10,560

**Printed at:** 1:10,560



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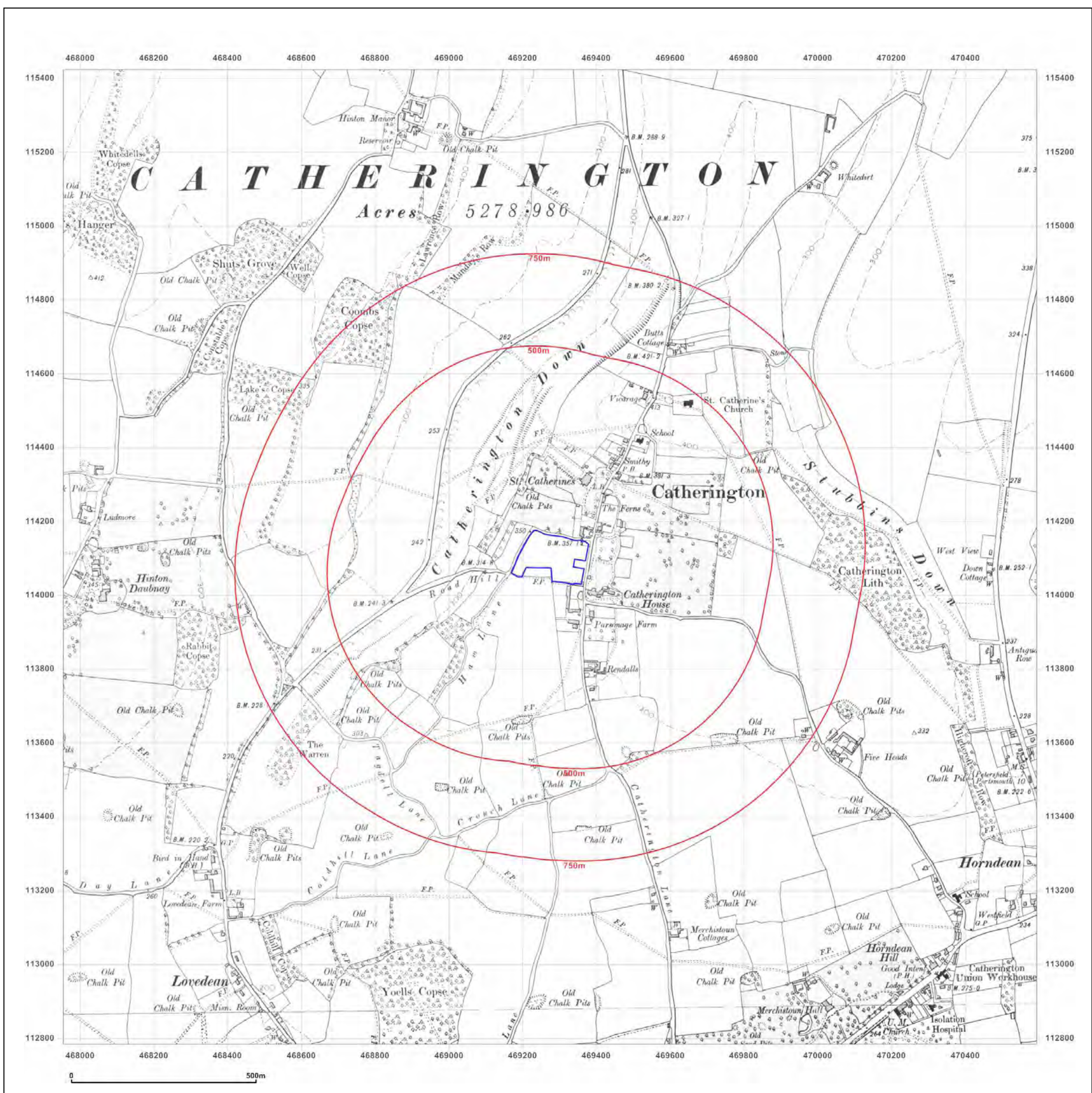


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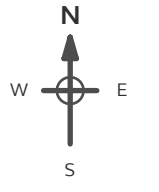
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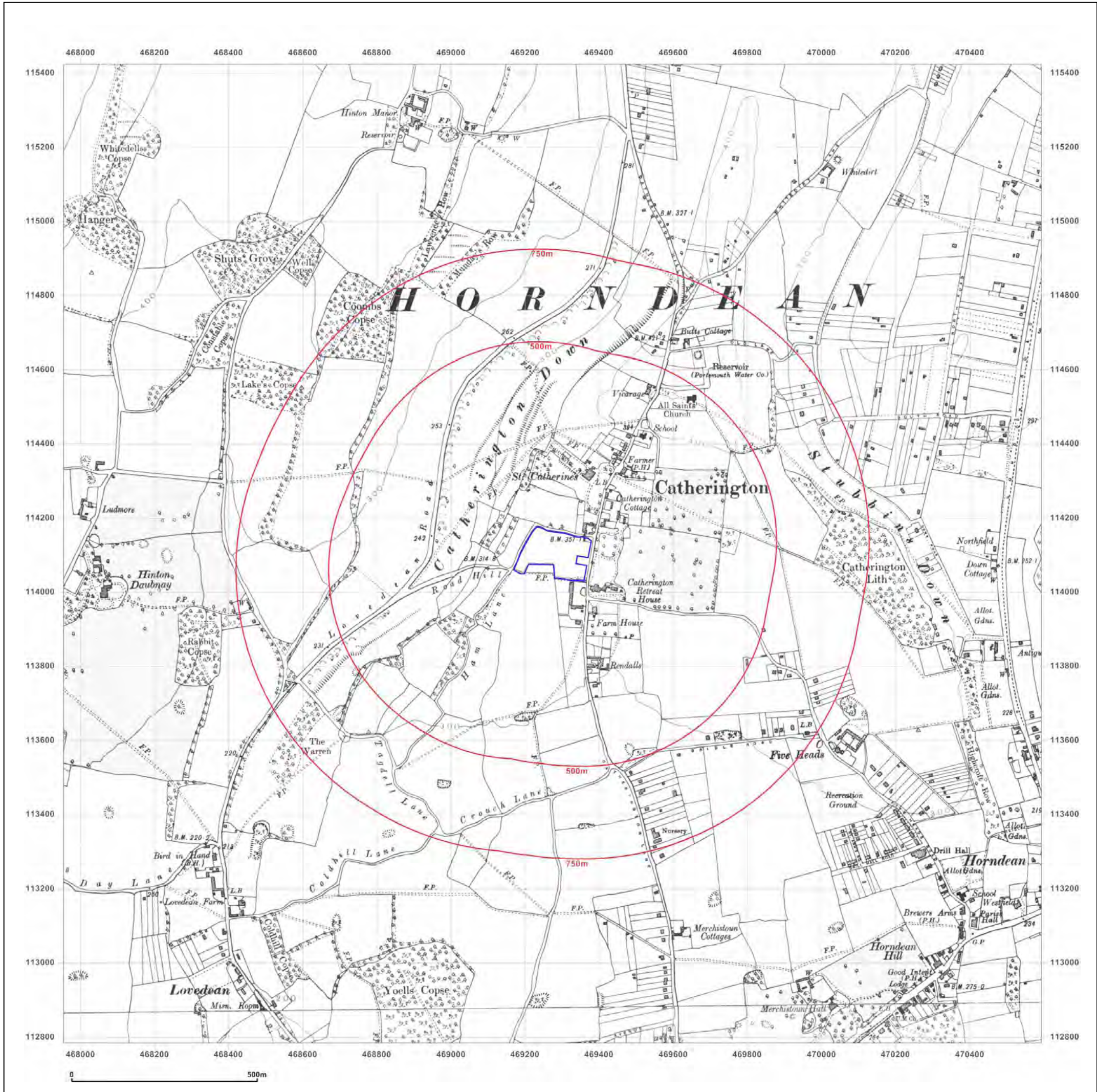
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**Map Name:** Provisional

**Map date:** 1957-1962

**Scale:** 1:10,560

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Revised 1961  
Edition N/A  
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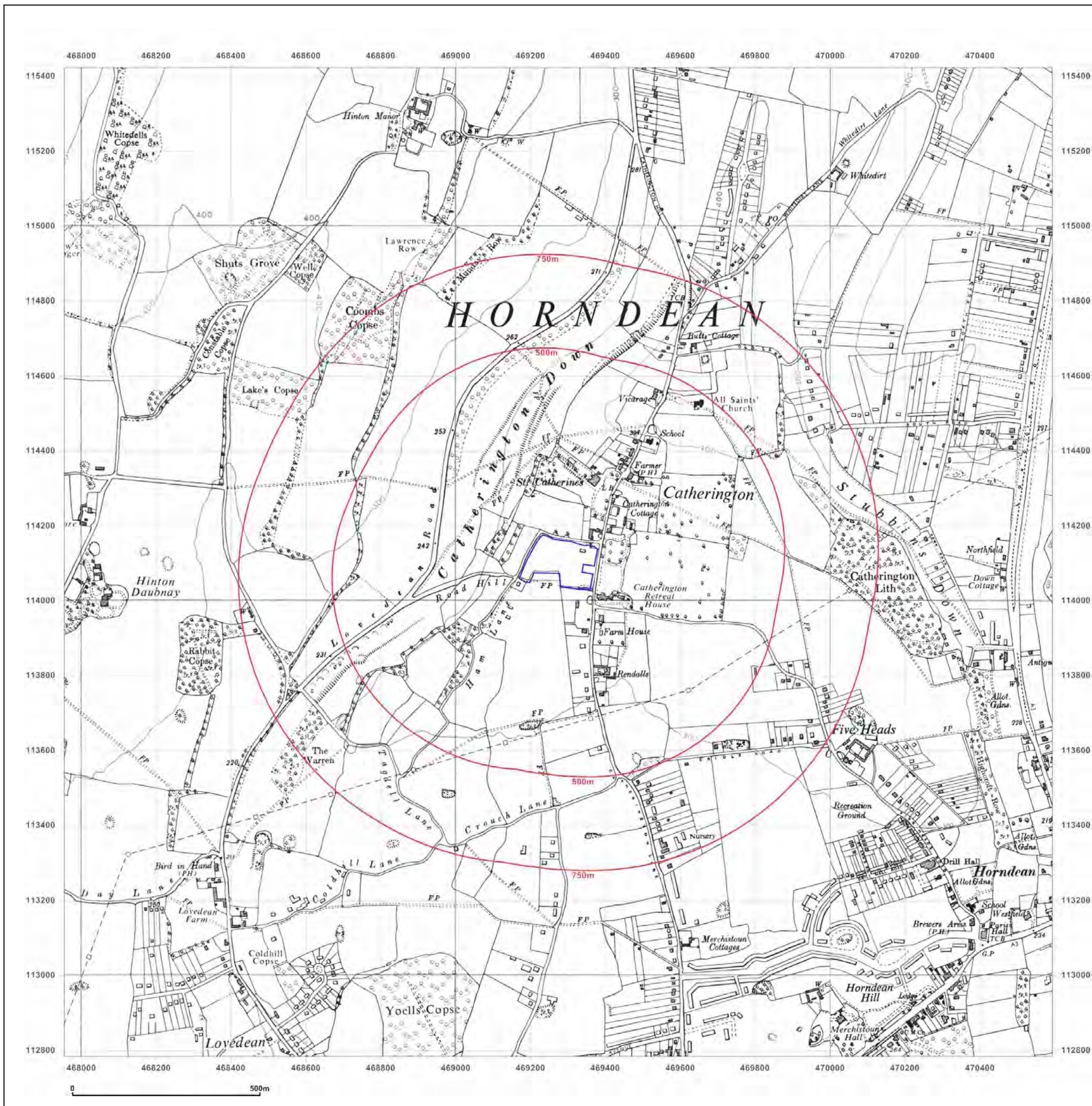


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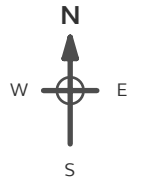
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Edition N/A  
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Levelled 1973

Surveyed 1980  
Revised 1980  
Edition N/A  
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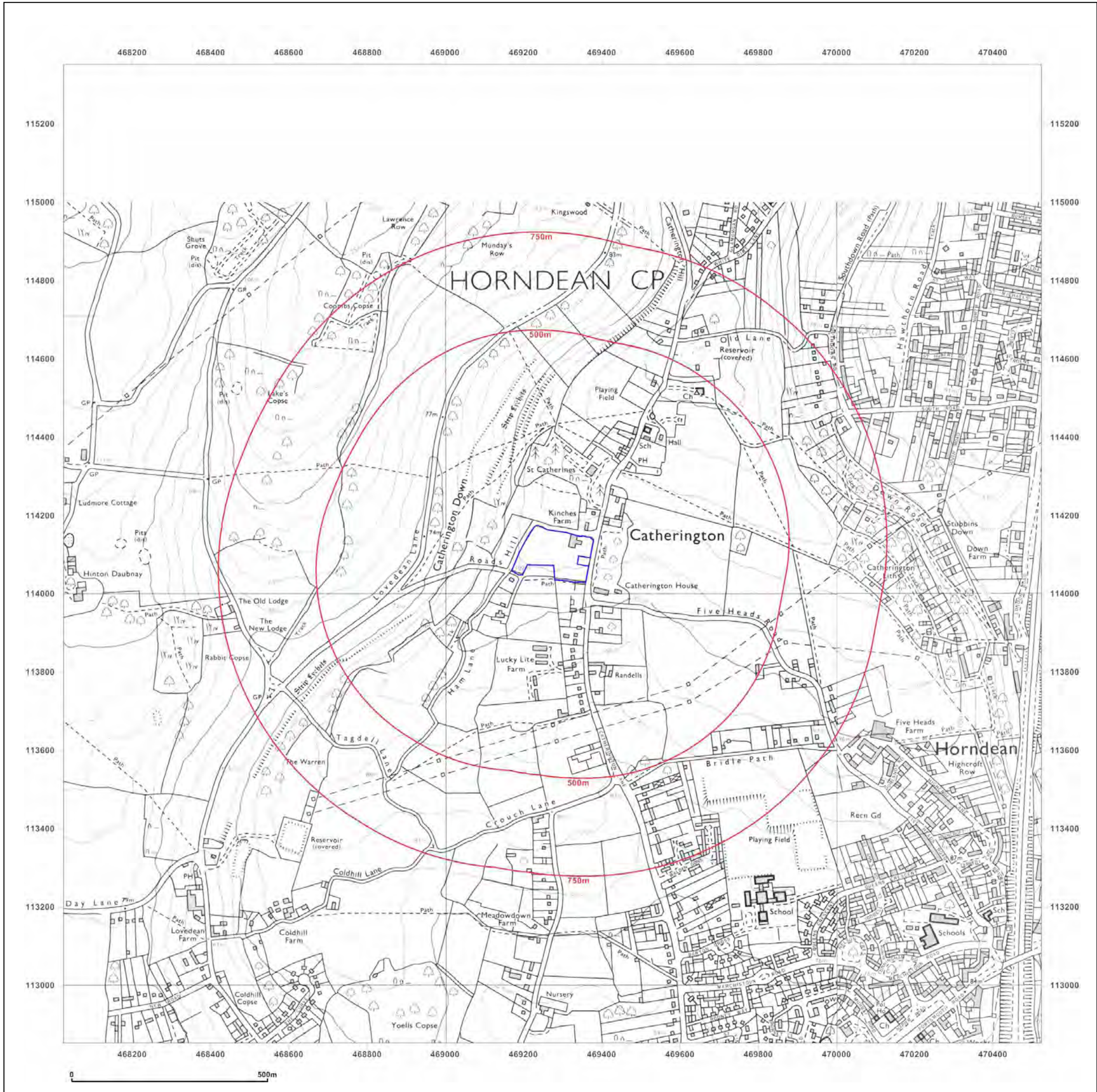


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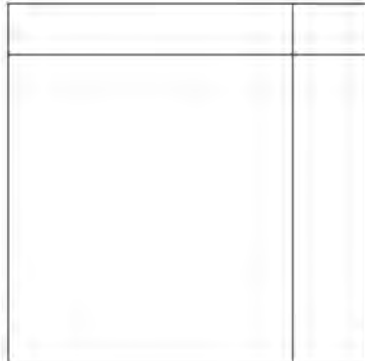
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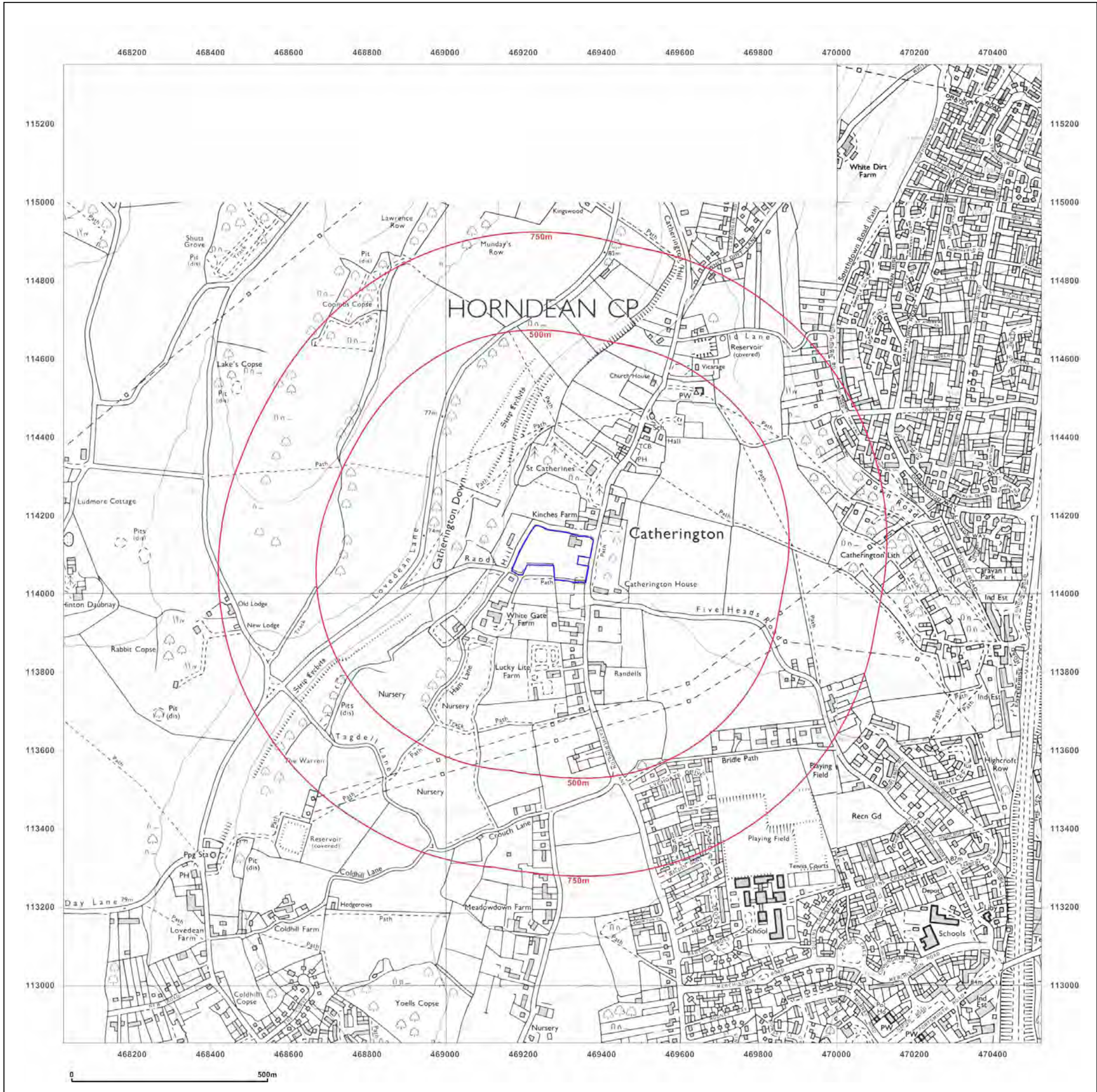


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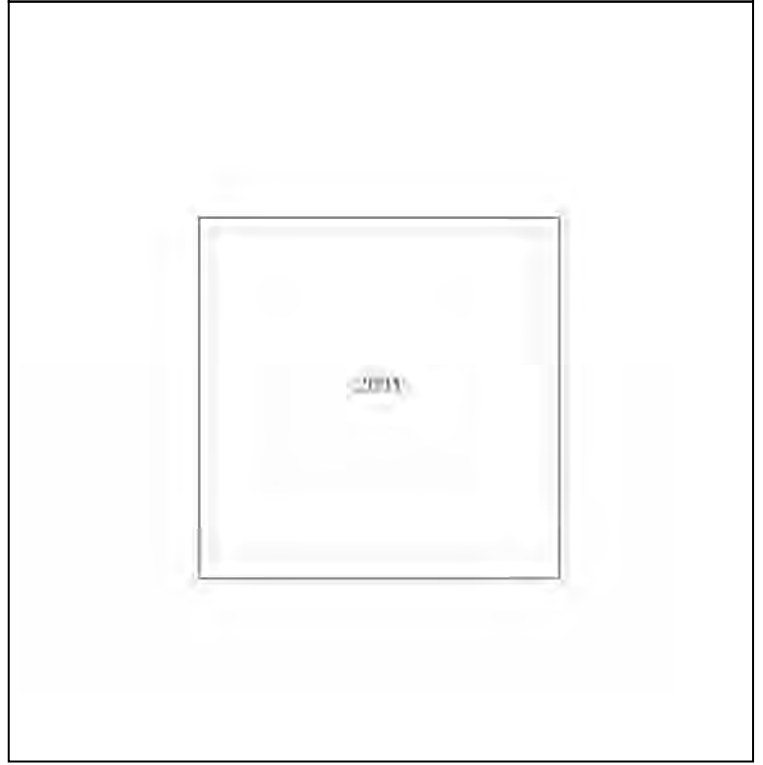
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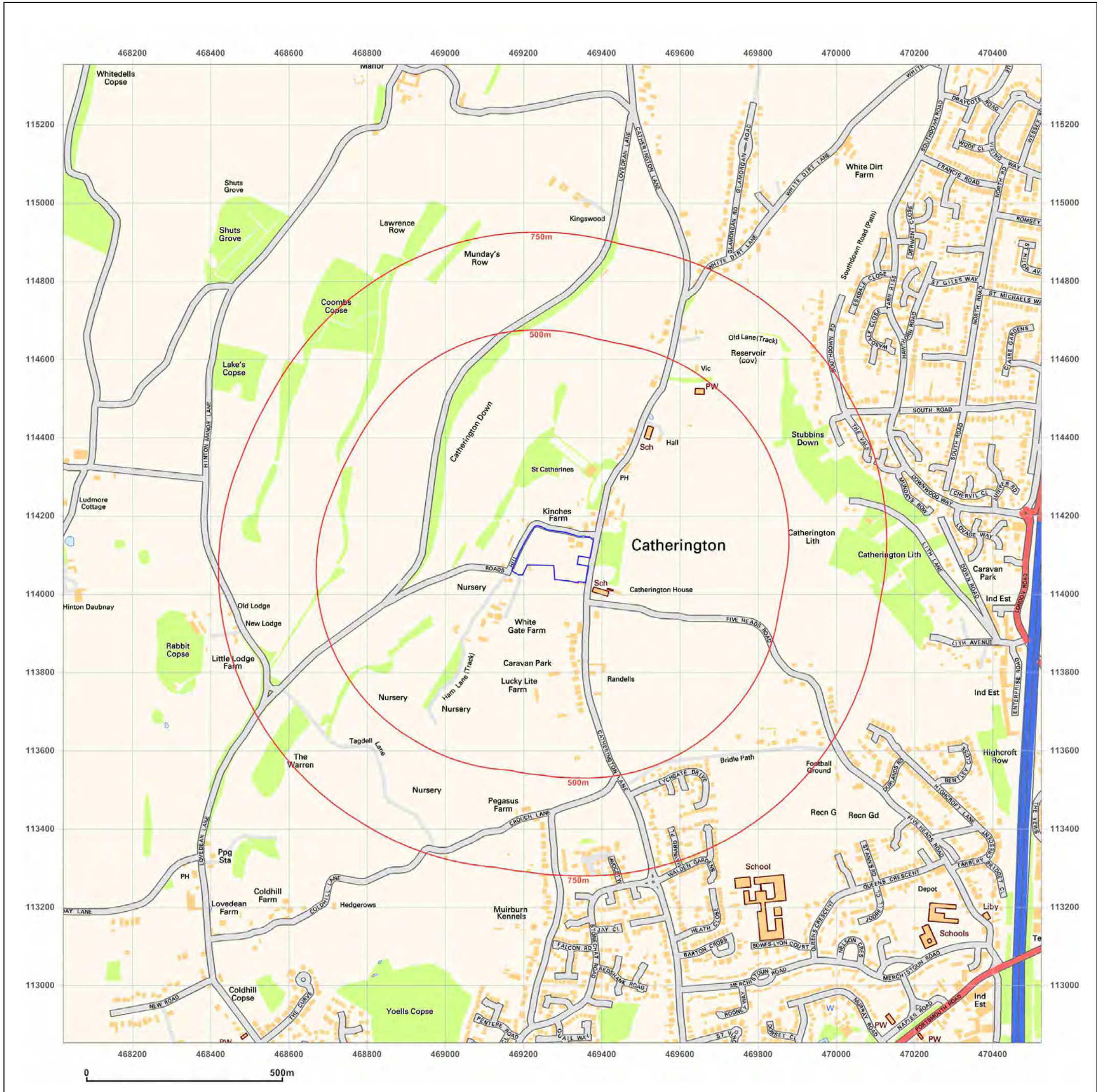
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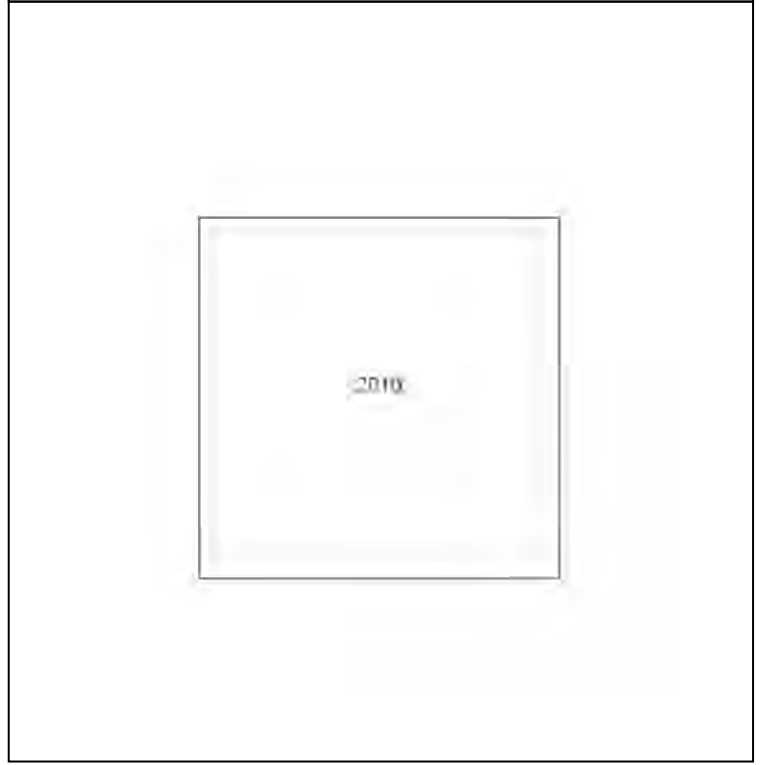
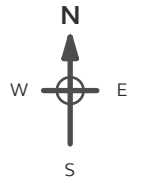
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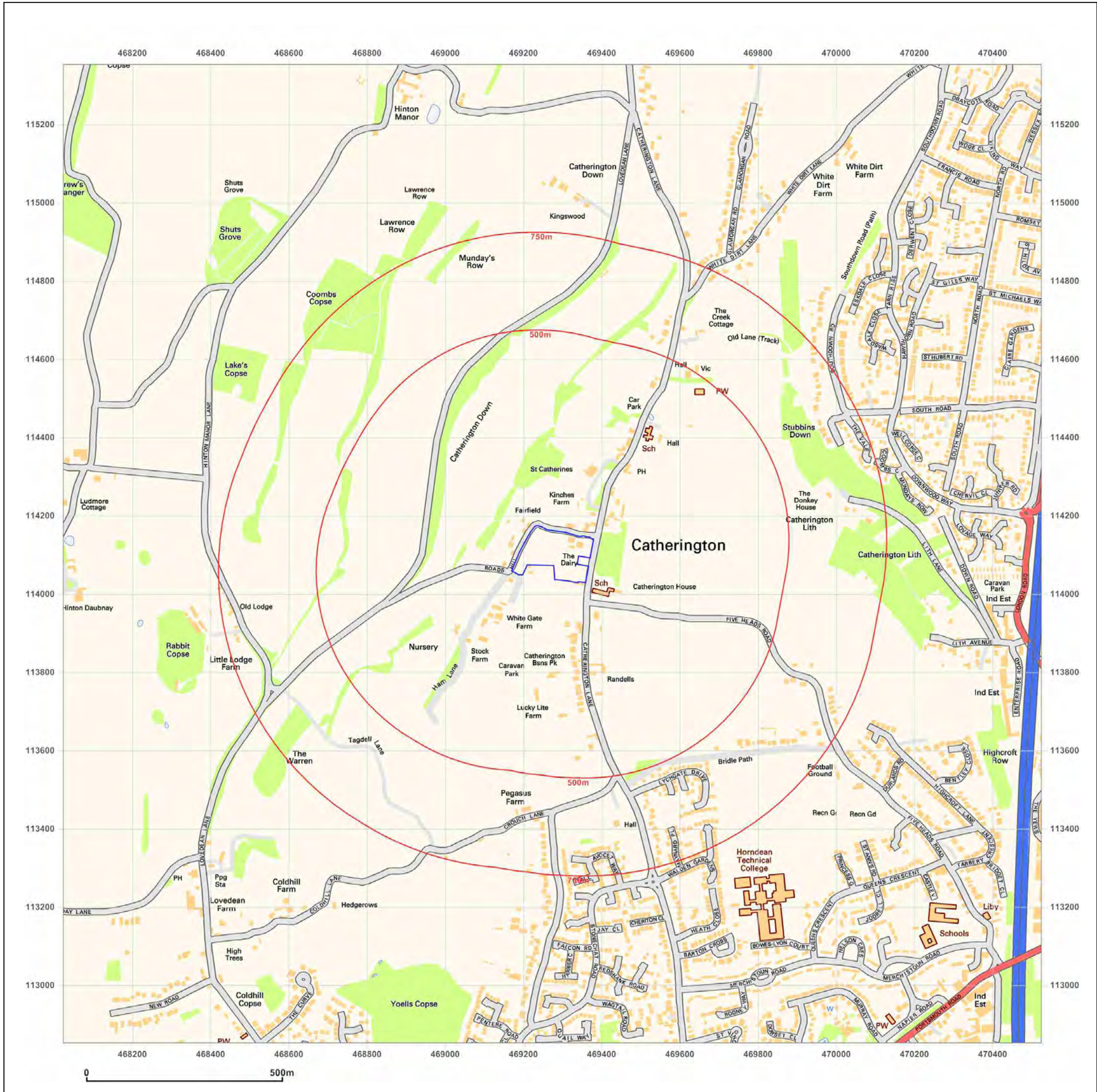


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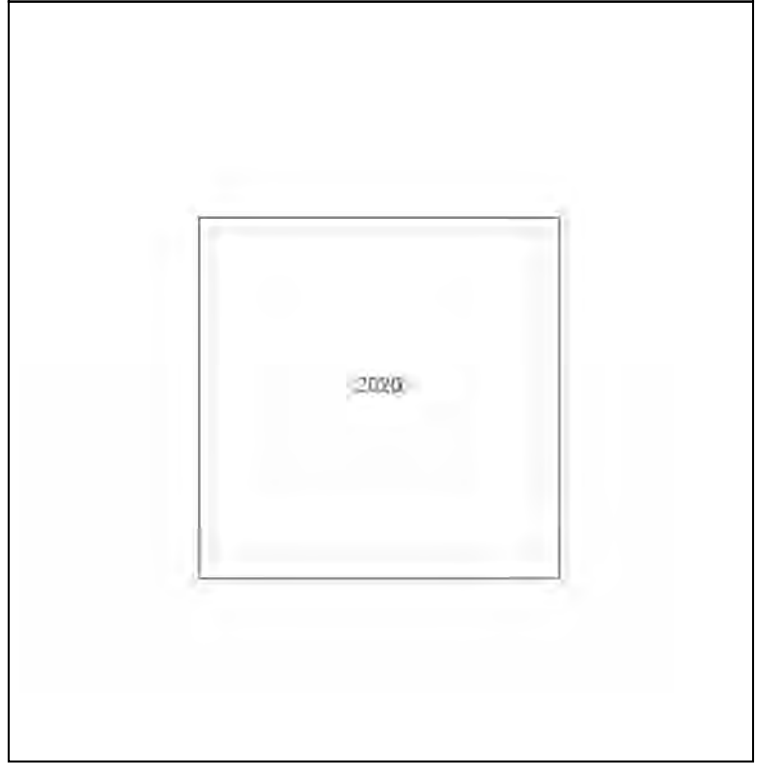
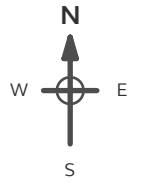
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**Site Details:**  
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 HORNDEAN, WATERLOOVILLE,  
 PO8 0TG

**Client Ref:** CLR\_5028  
**Report Ref:** GS-7201413  
**Grid Ref:** 469273, 114103

**Map Name:** National Grid  
**Map date:** 2020  
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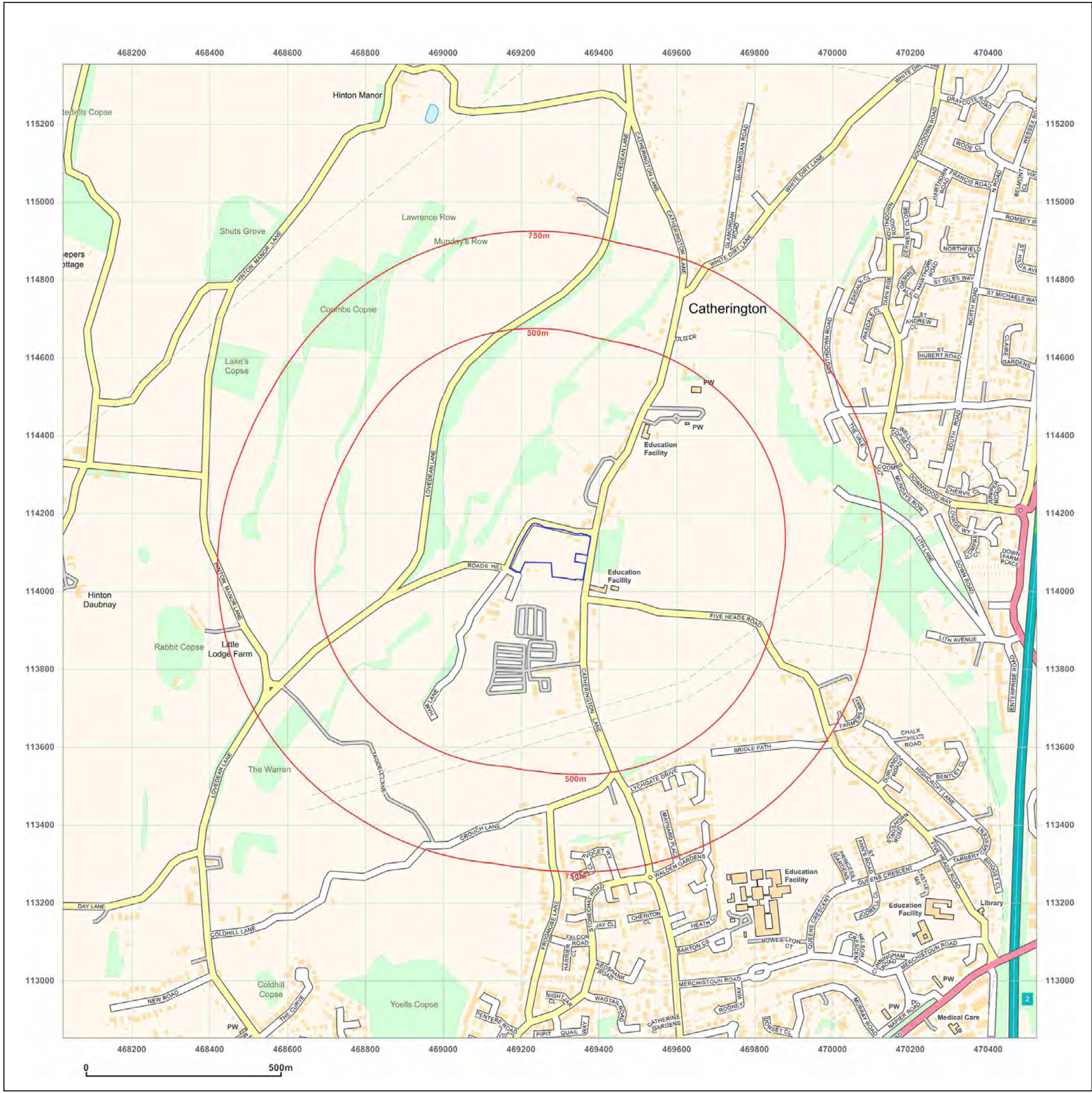
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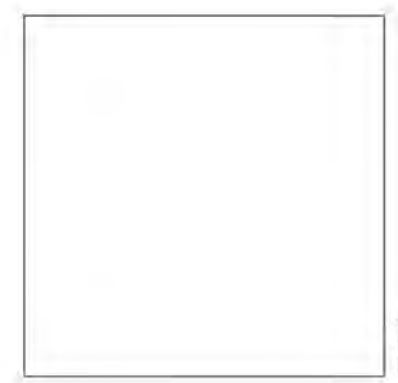
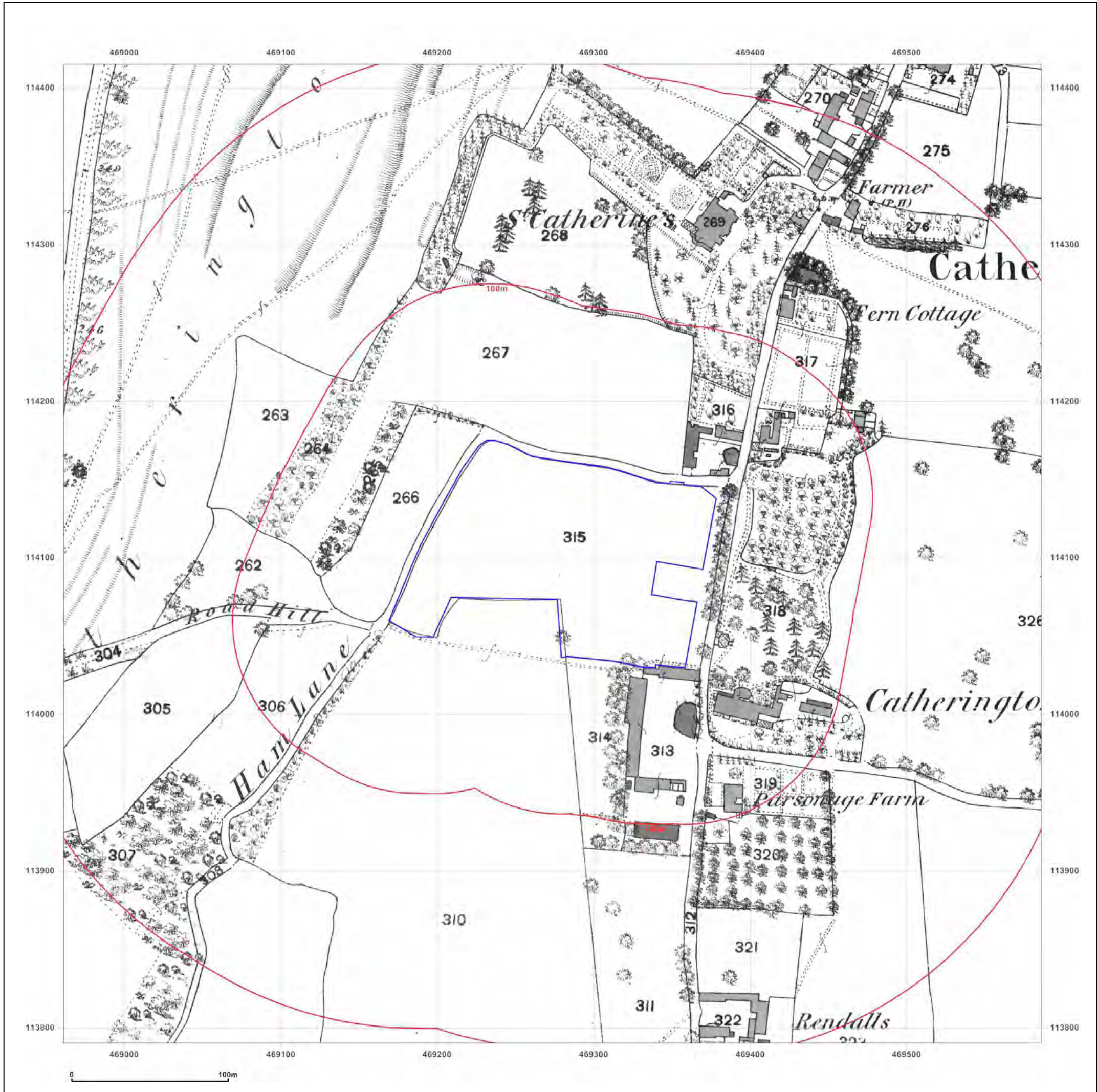
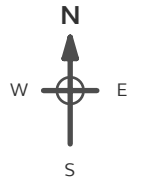
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**Report Ref:** GS-7201413  
**Grid Ref:** 469273, 114103

**Map Name:** County Series  
**Map date:** 1868  
**Scale:** 1:2,500  
**Printed at:** 1:2,500



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 Revised 1868  
 Edition N/A  
 Copyright N/A  
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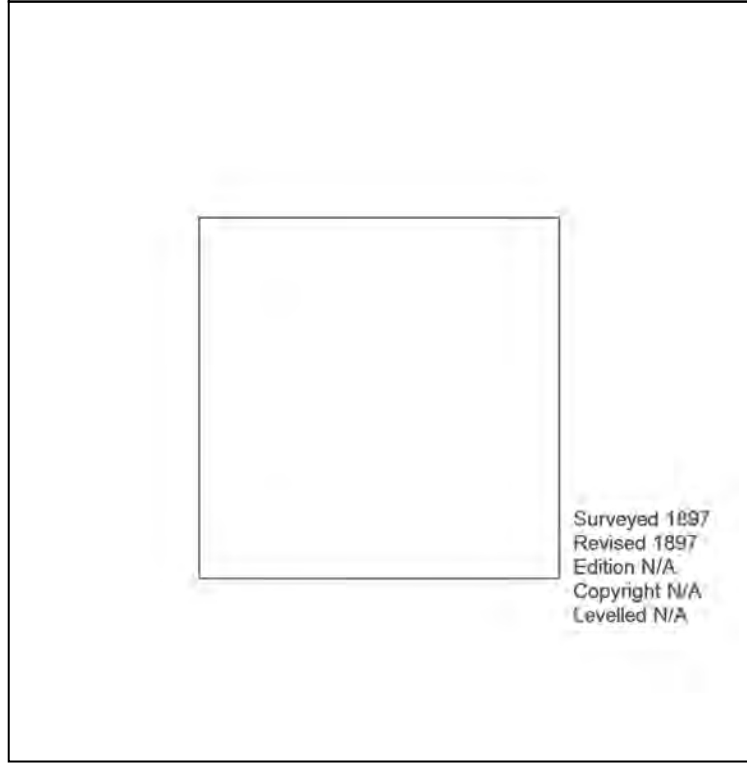
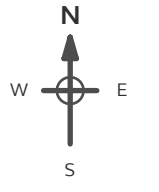
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**Client Ref:** CLR\_5028  
**Report Ref:** GS-7201413  
**Grid Ref:** 469273, 114103

**Map Name:** County Series  
**Map date:** 1897  
**Scale:** 1:2,500  
**Printed at:** 1:2,500



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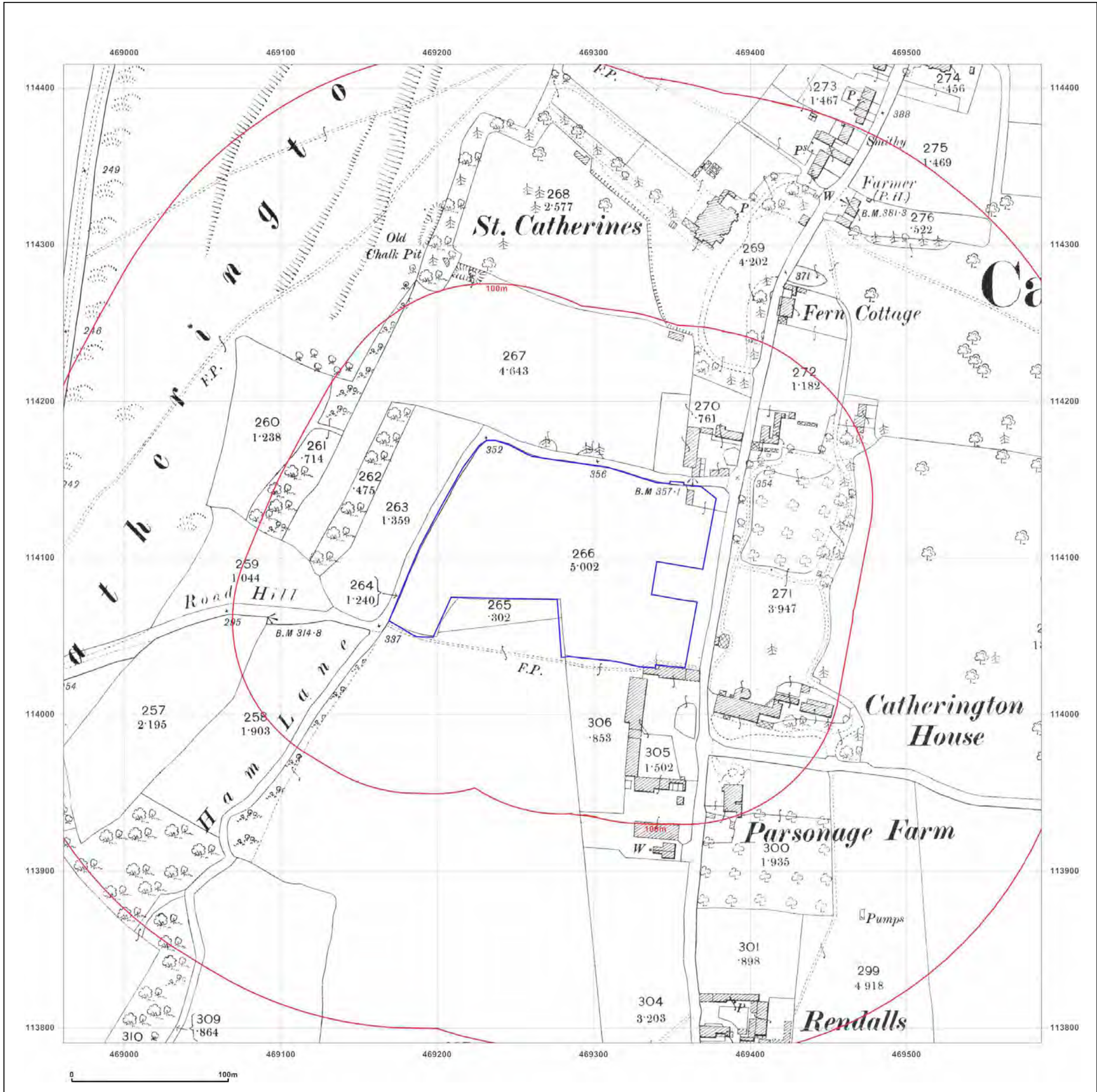


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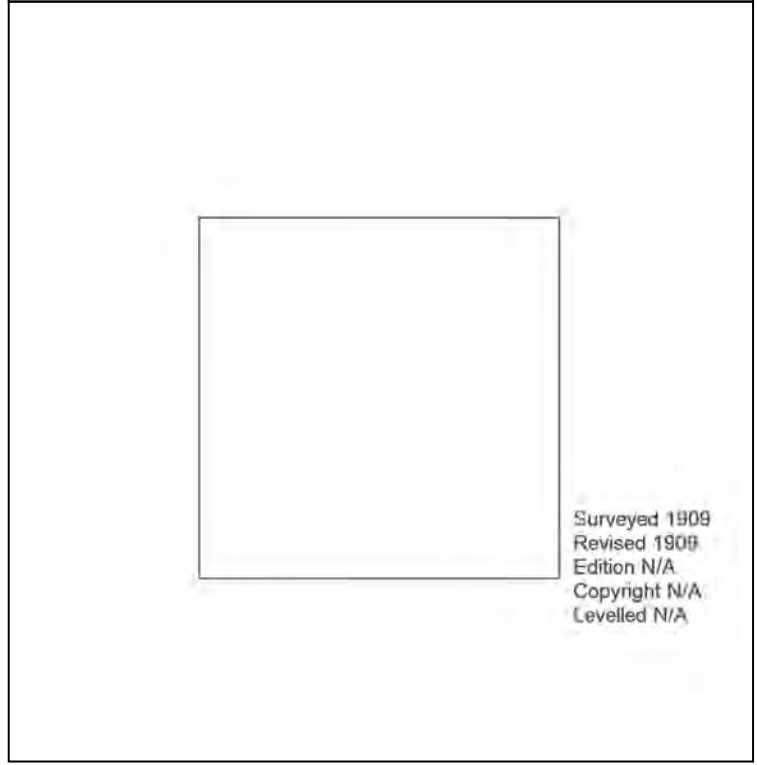
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**Map Name:** County Series

**Map date:** 1909

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Surveyed 1909  
Revised 1909  
Edition N/A  
Copyright N/A  
Levelled N/A

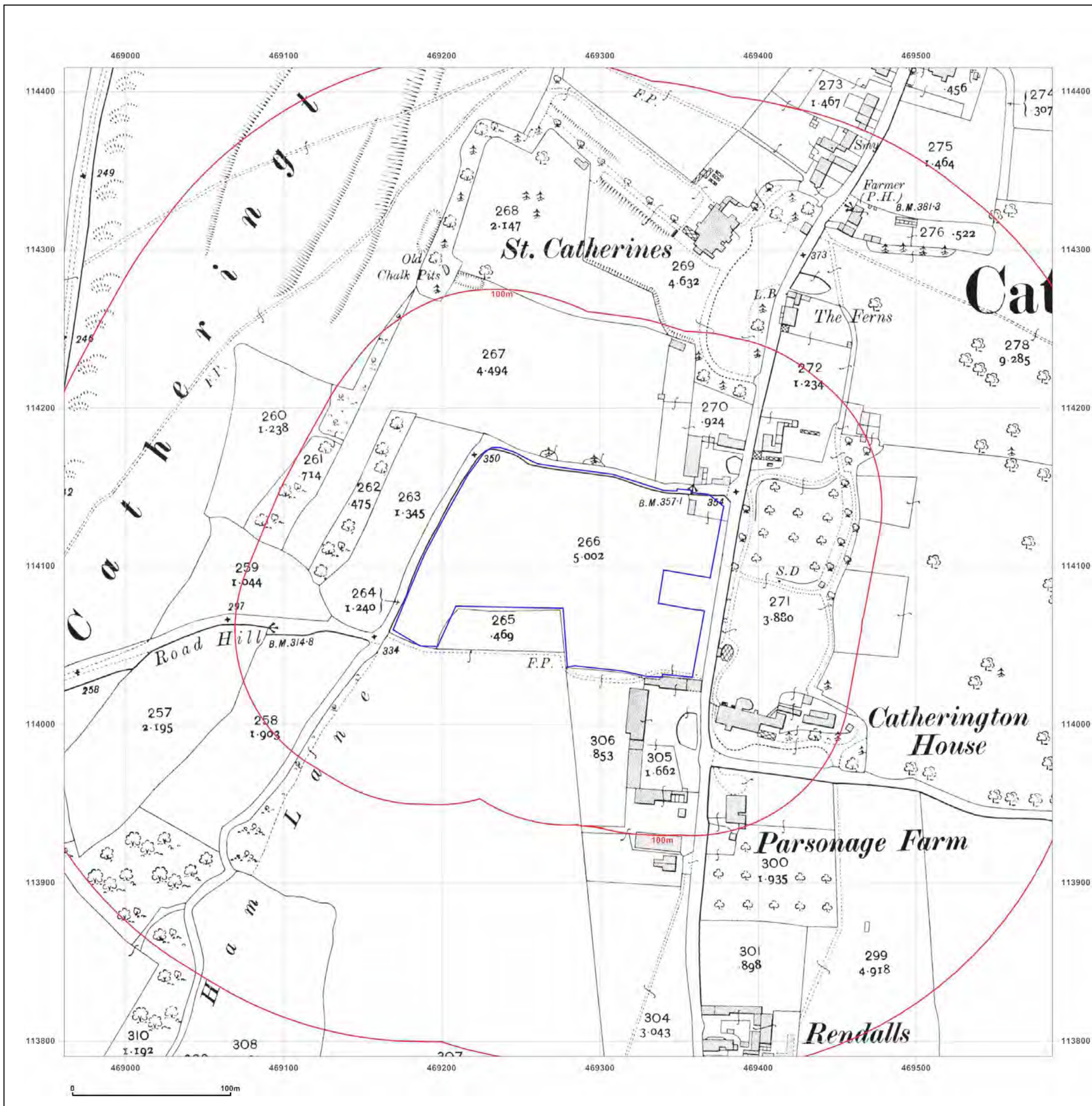


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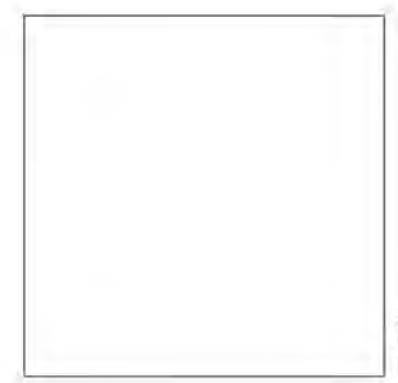
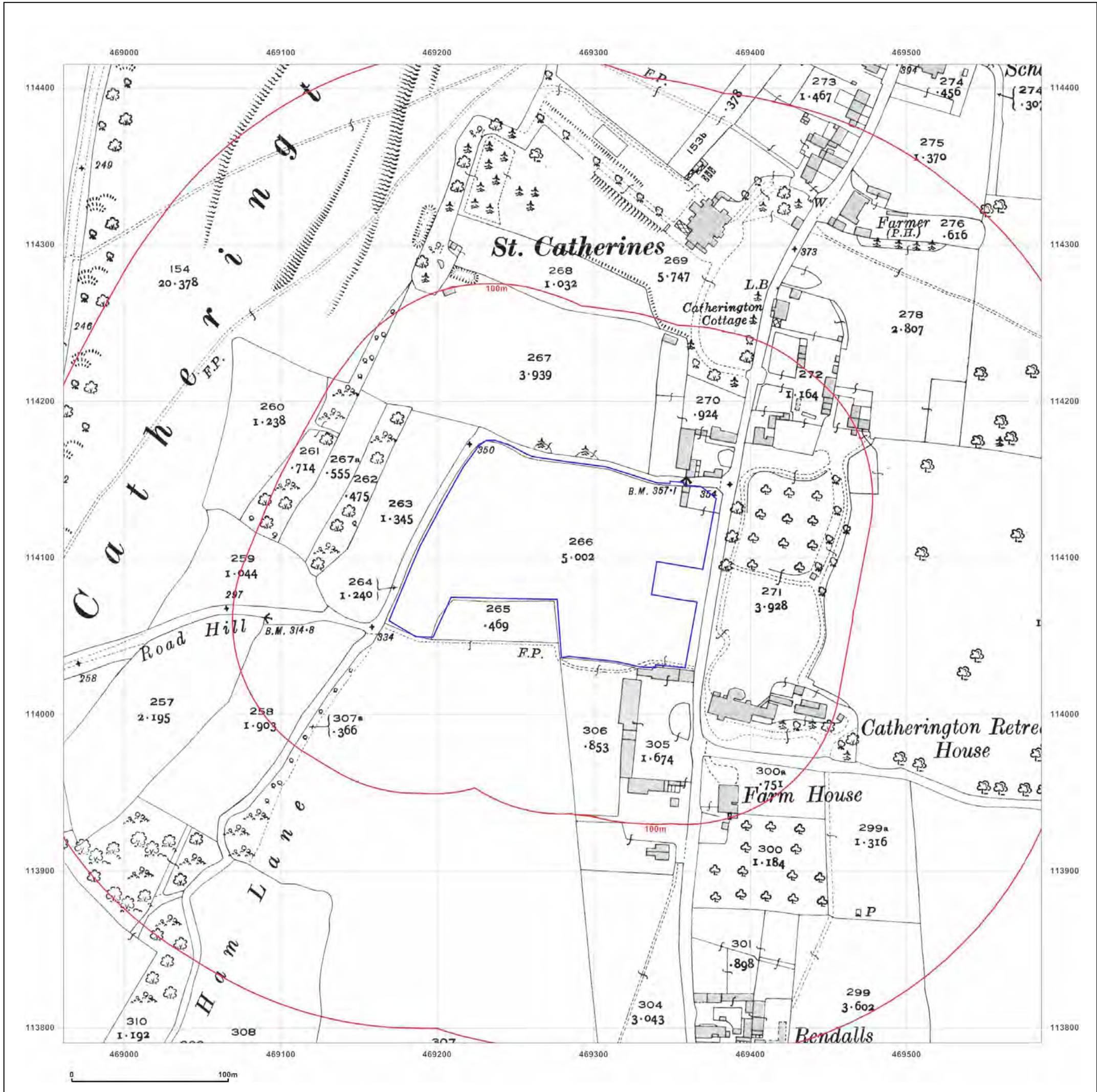
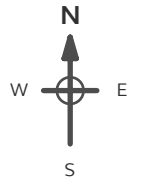
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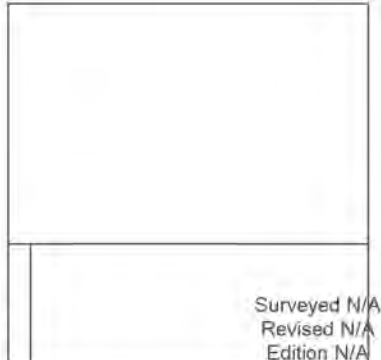




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Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
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 Revised N/A  
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 Copyright N/A  
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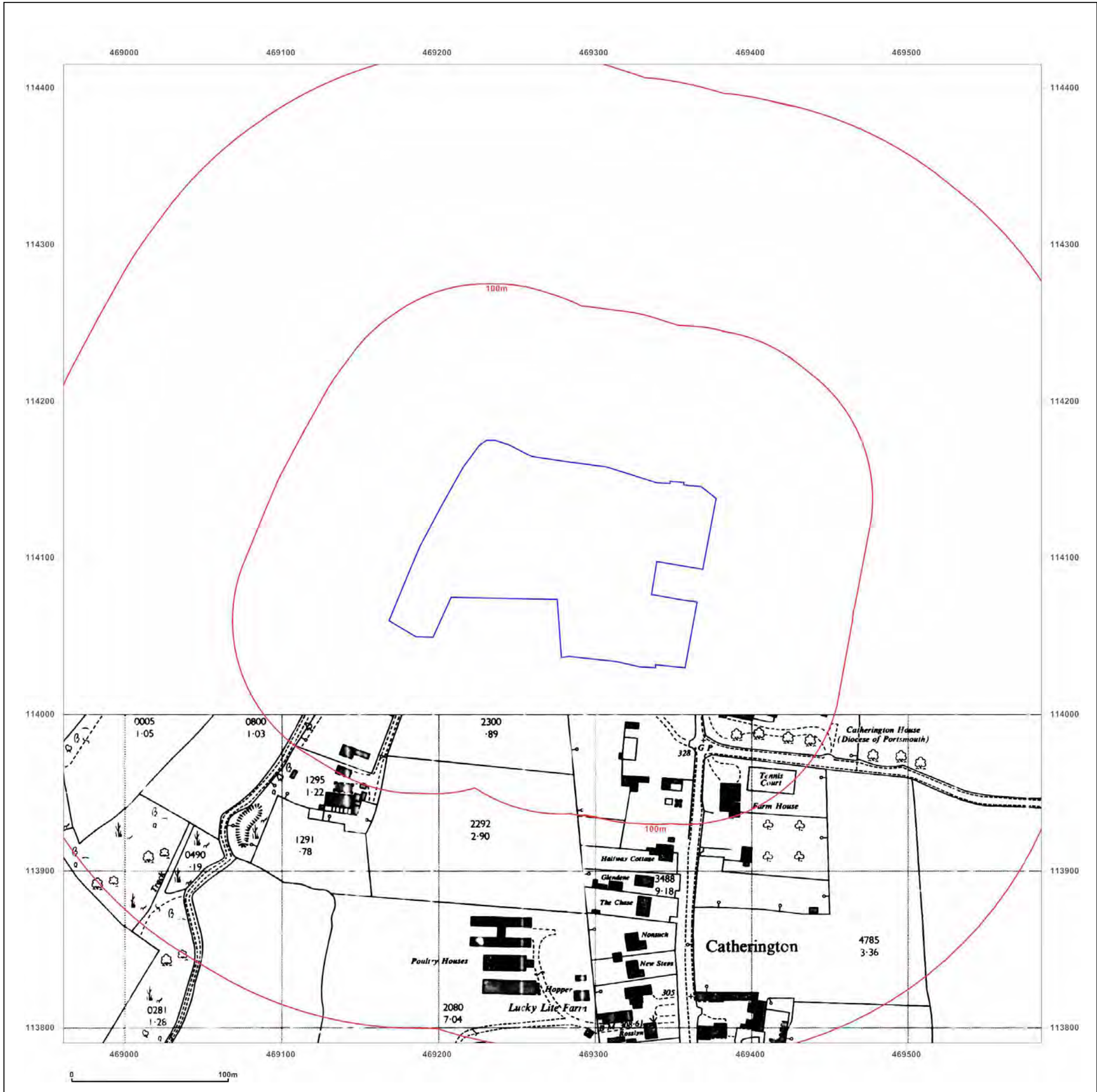


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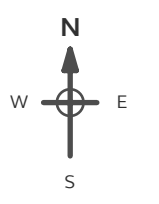
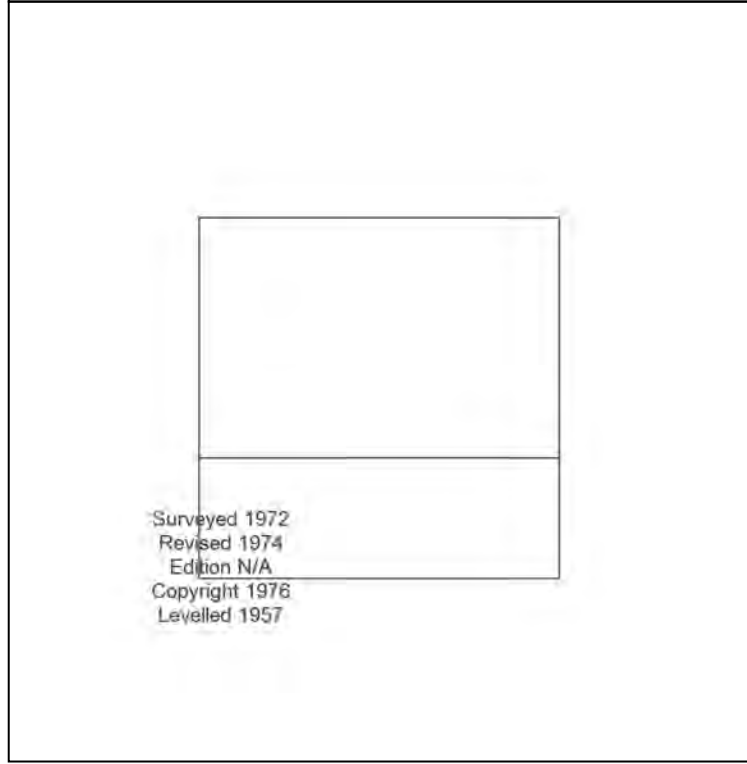
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Surveyed 1972  
 Revised 1974  
 Edition N/A  
 Copyright 1978  
 Levelled 1957

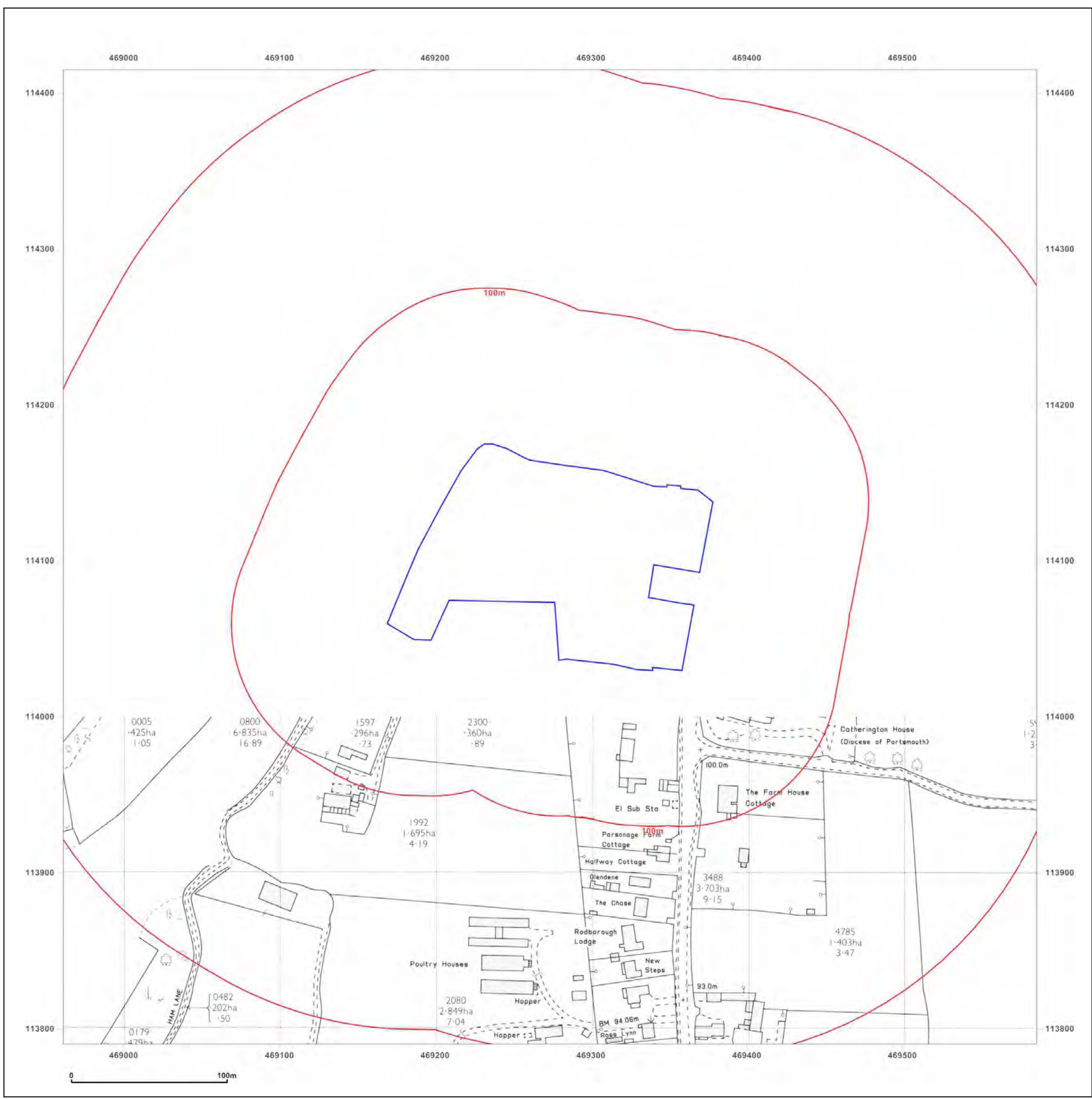


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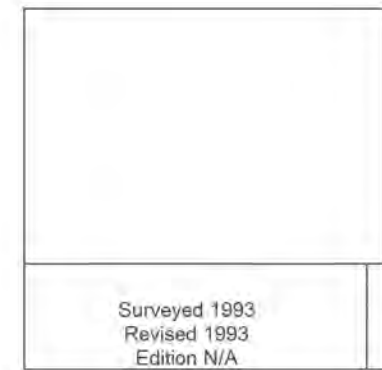
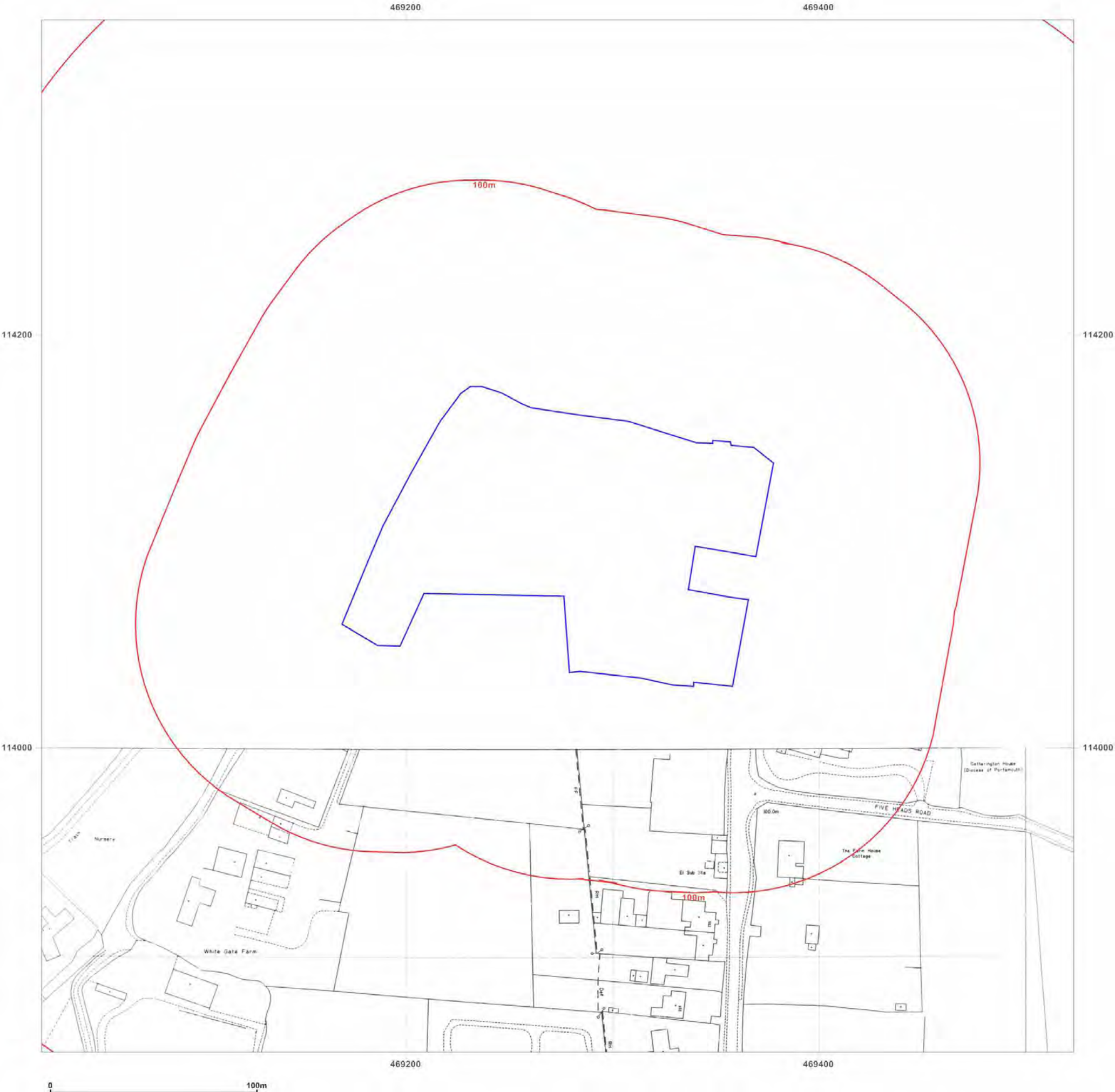
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**Map Name:** National Grid

**Map date:** 1993

**Scale:** 1:1,250

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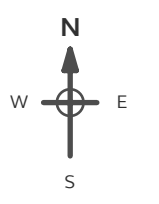
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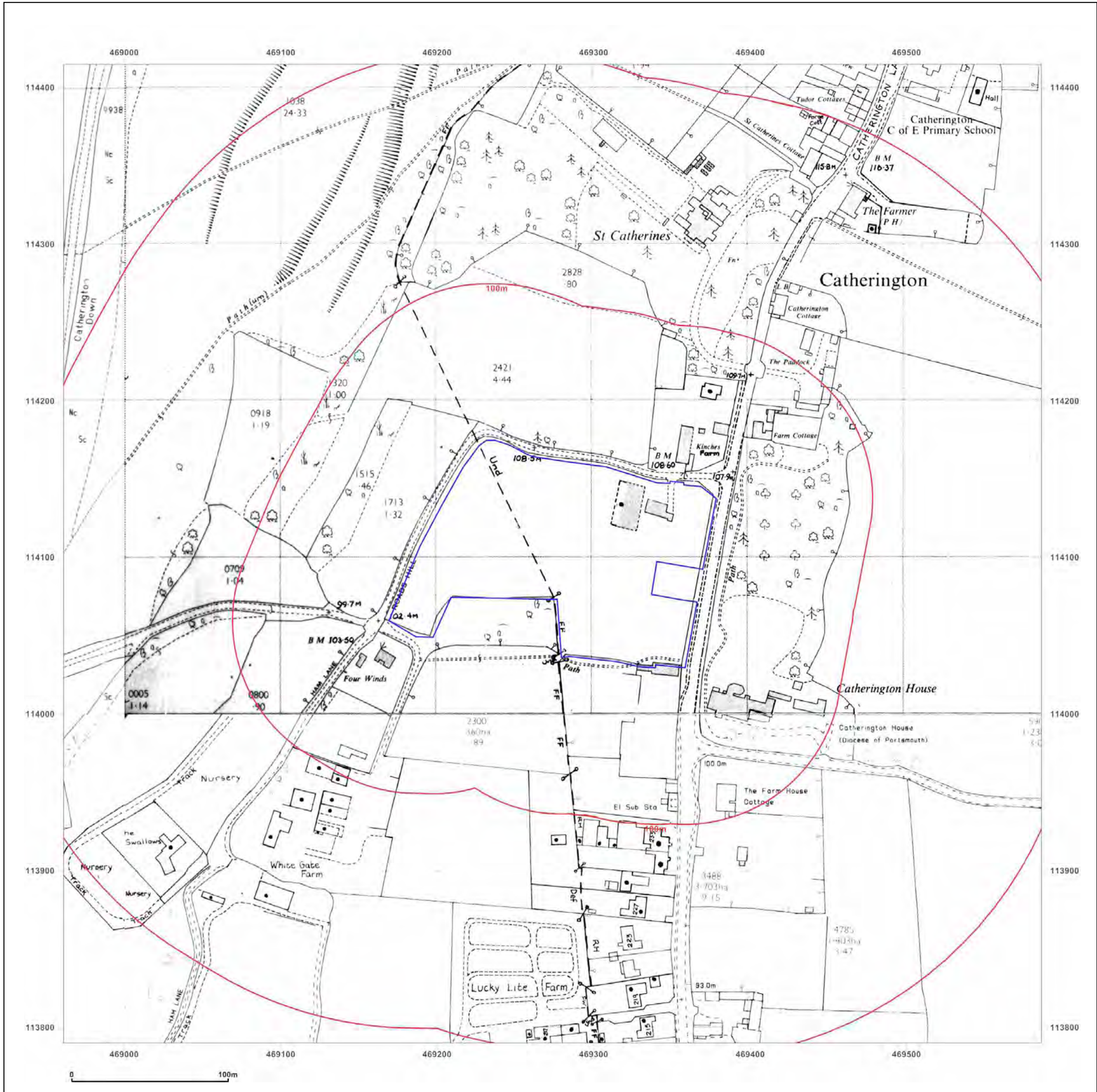
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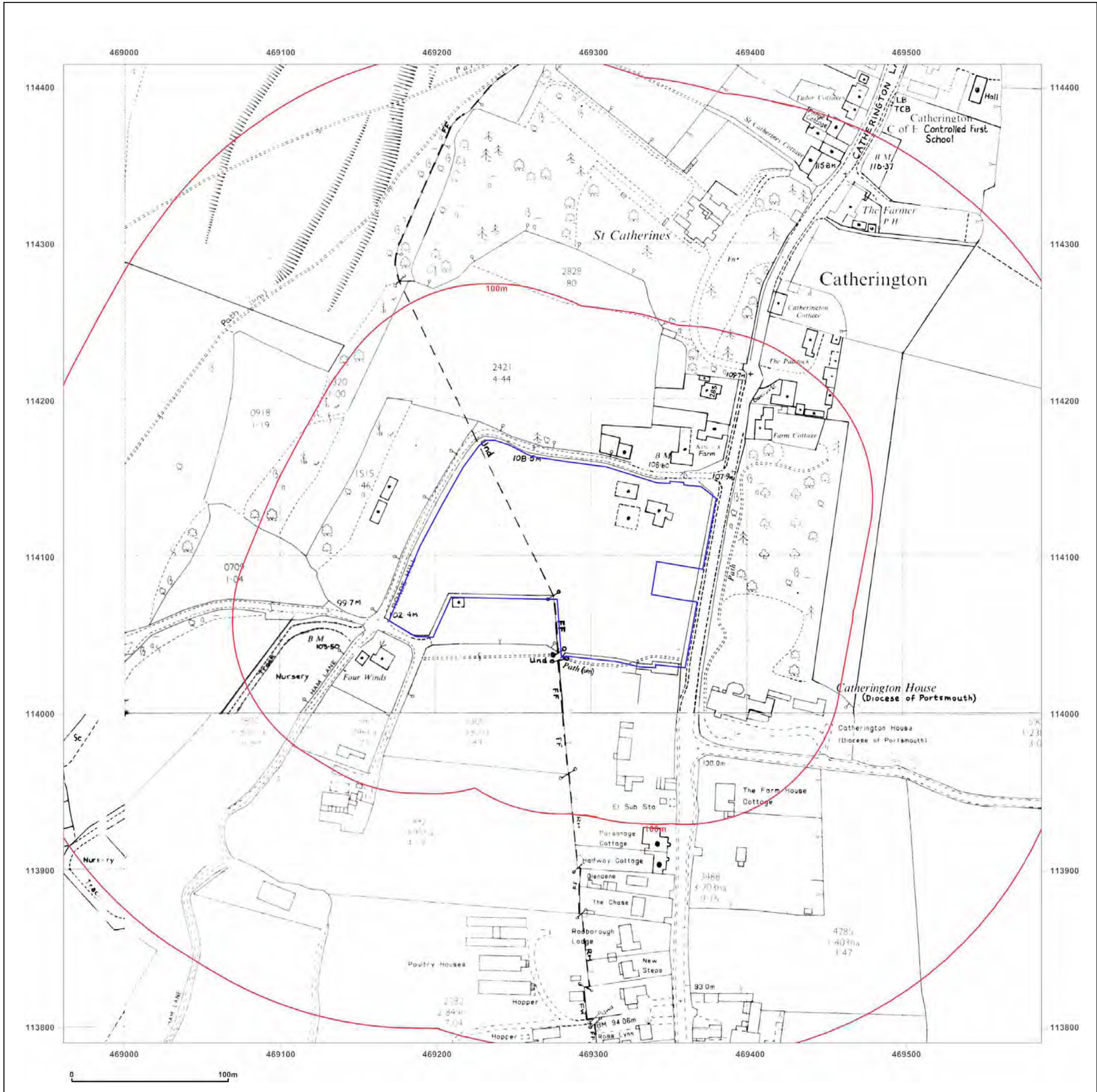
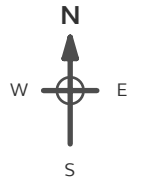
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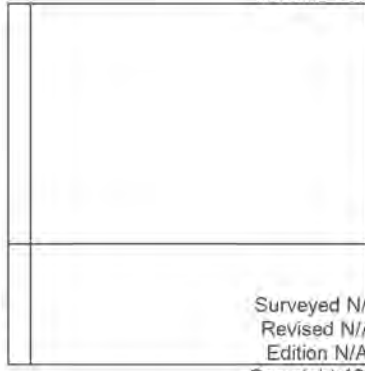


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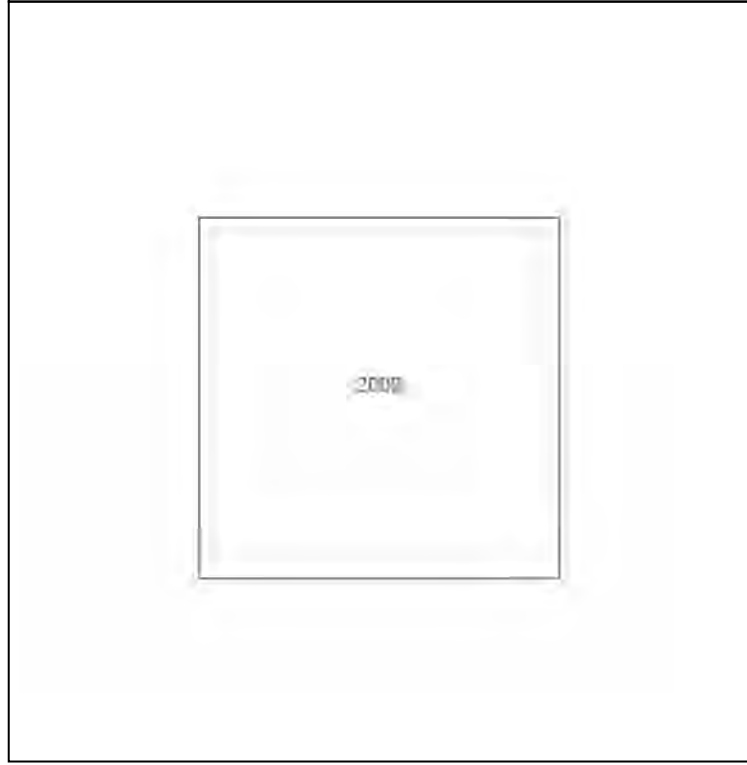
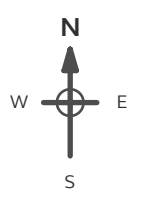
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**Map Name:** LandLine  
**Map date:** 2003  
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**Printed at:** 1:1,250



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