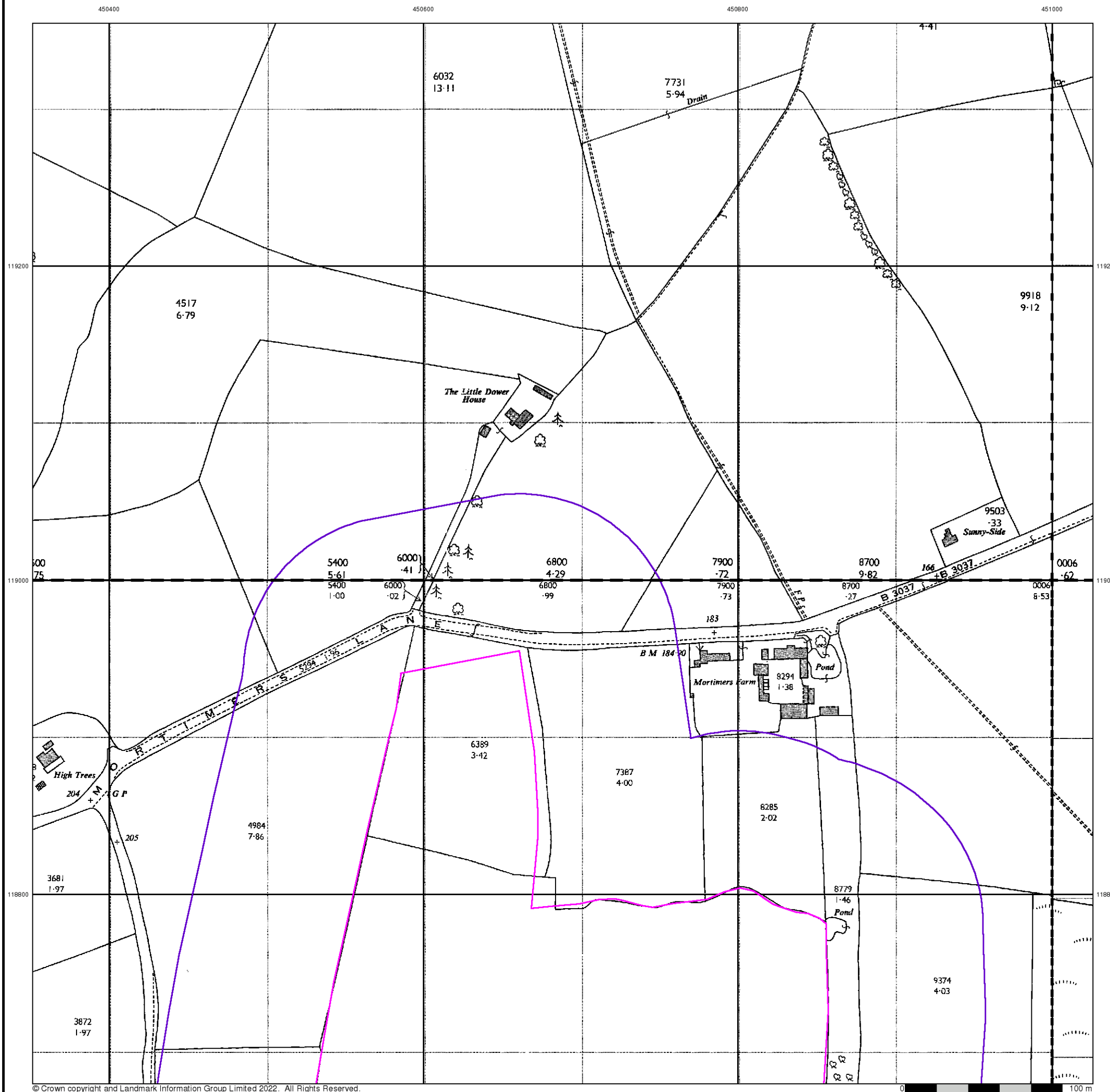




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Geo-Environmental Ordnance Survey Plan

Published 1963 - 1964

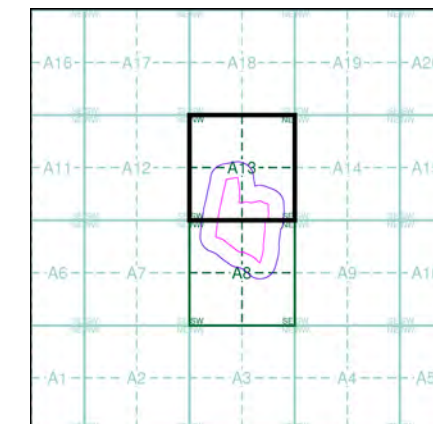
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU5019 1964 12,500	SU5119 1964 12,500
SU5018 1963 12,500	SU5118 1963 12,500

Historical Map - Segment A13



Order Details

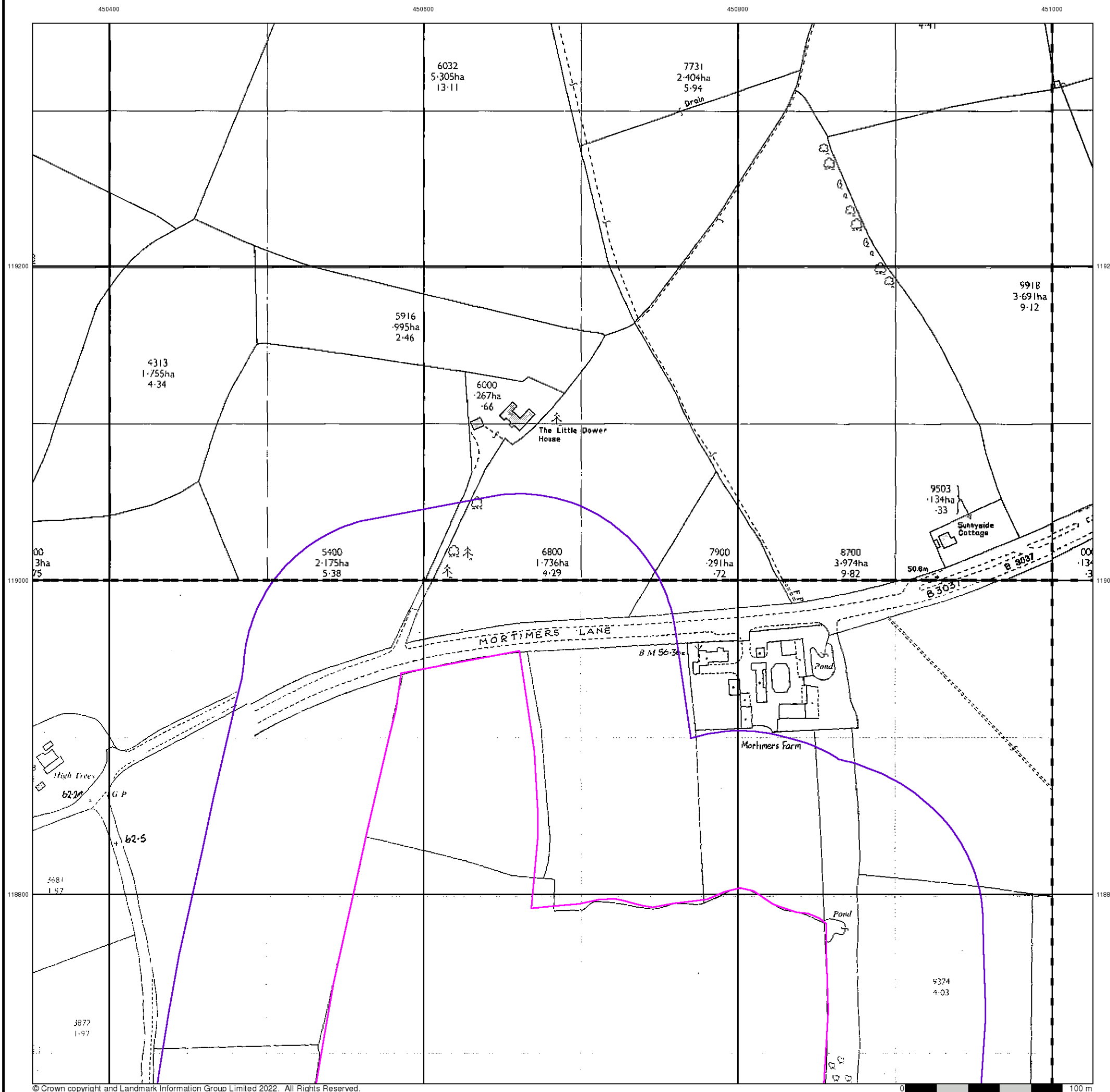
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690

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Geo-Environmental Additional SIMs

Published 1964 - 1988

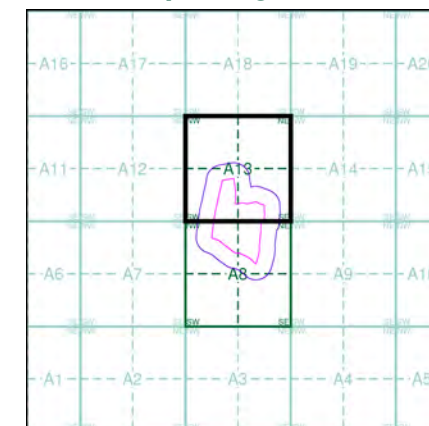
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU5019 1964 1:2,500	SU5119 1964 1:2,500
SU5018 1988 1:2,500	

Historical Map - Segment A13



Order Details

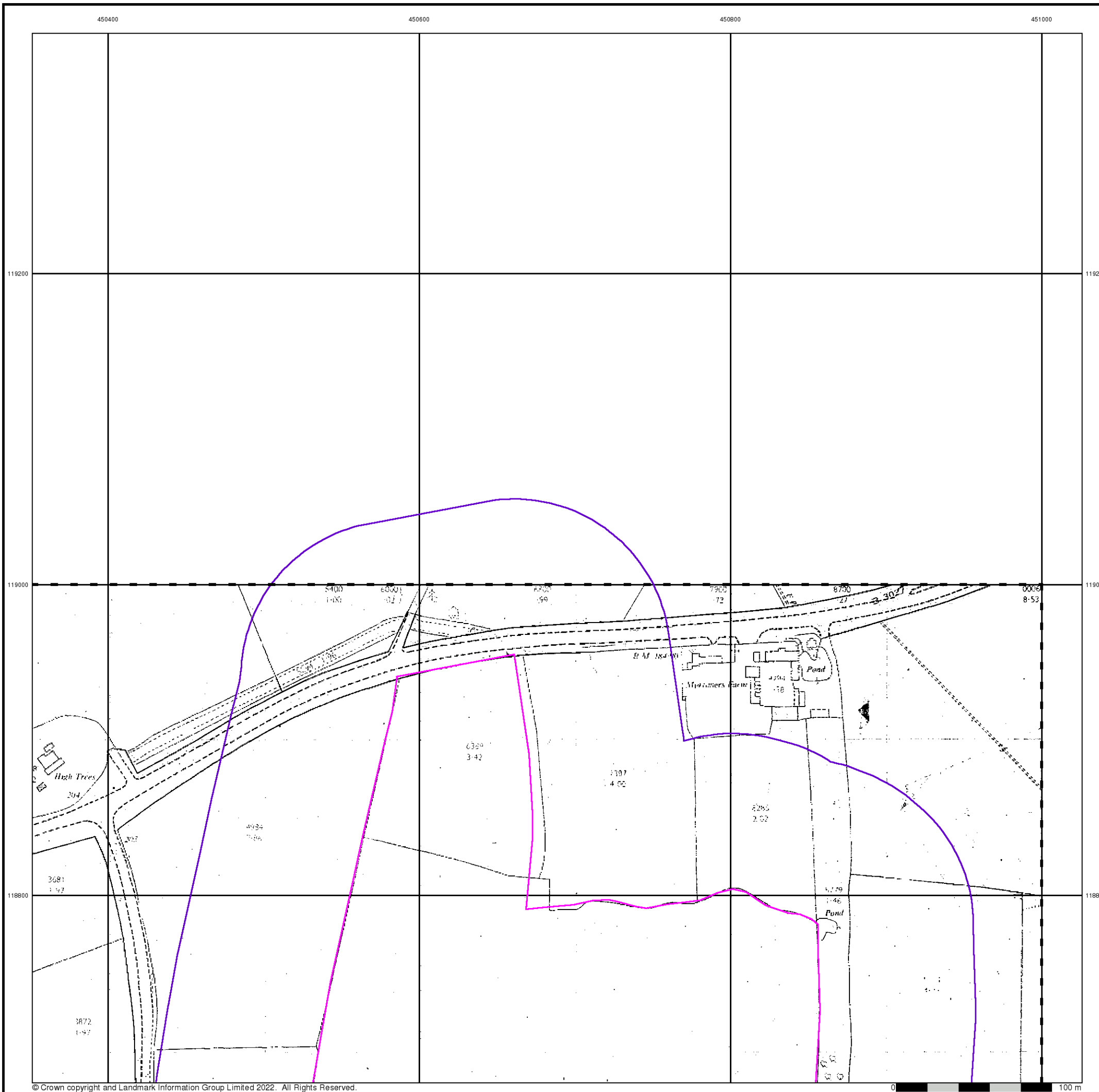
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690

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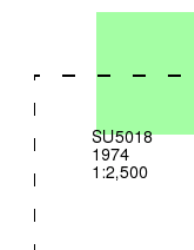
Geo-Environmental Supply of Unpublished Survey Information

Published 1974

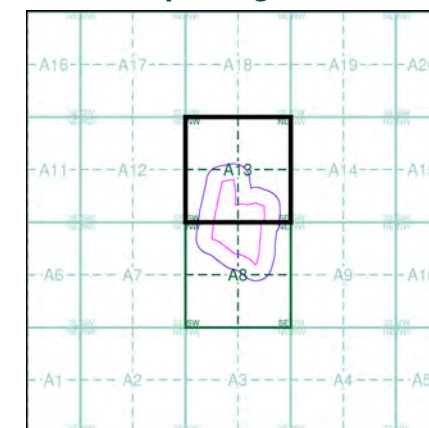
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

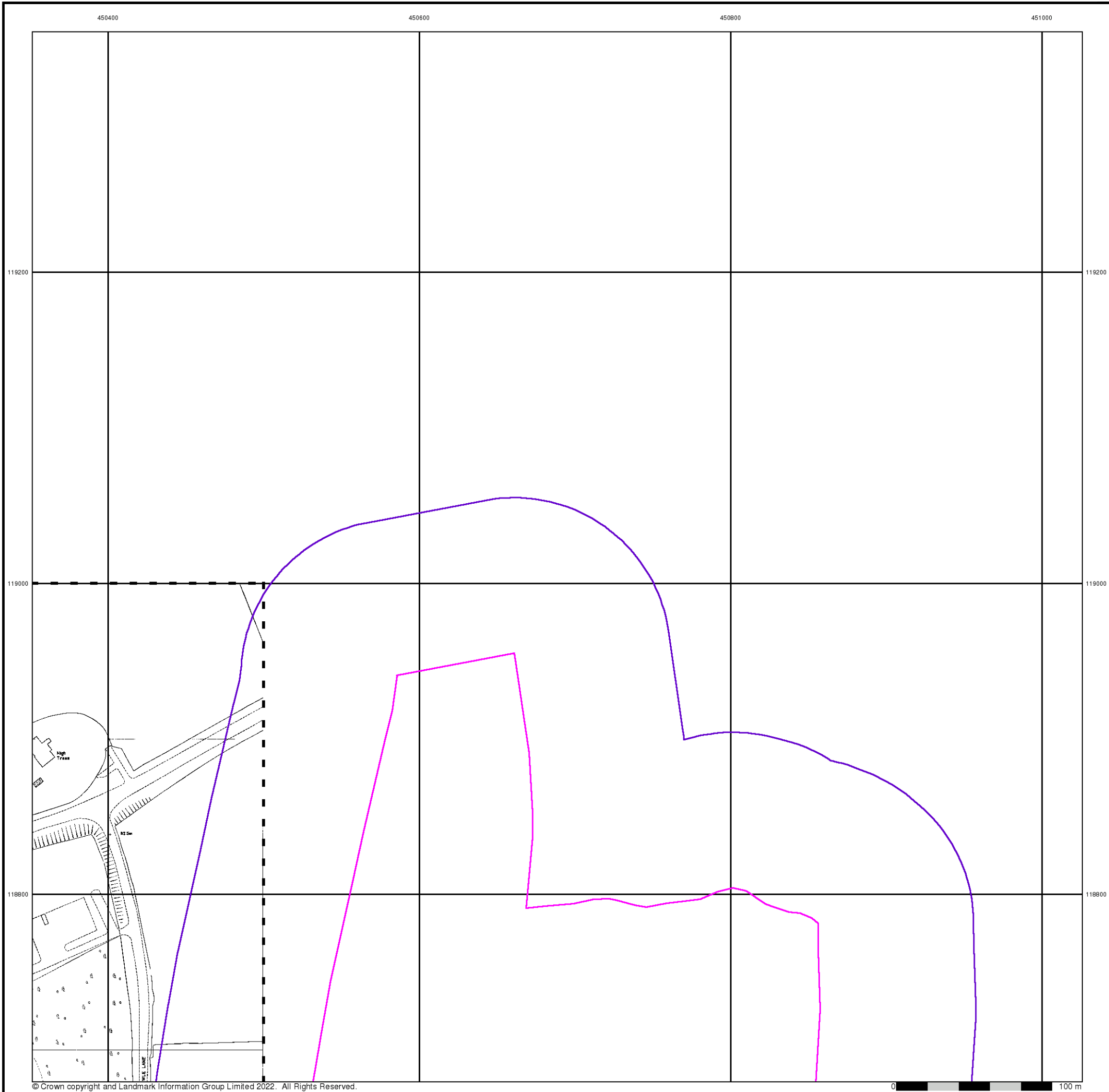
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690

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0 100 m



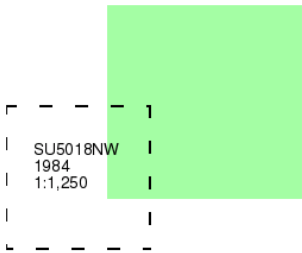
**Geo-Environmental
Ordnance Survey Plan**

Published 1984

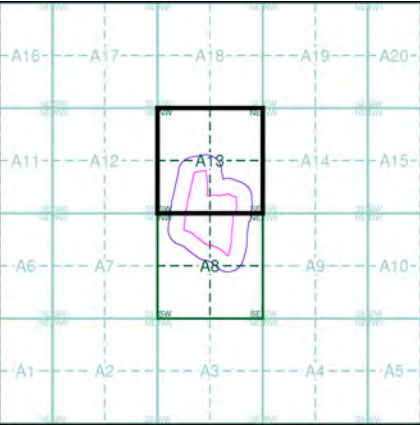
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

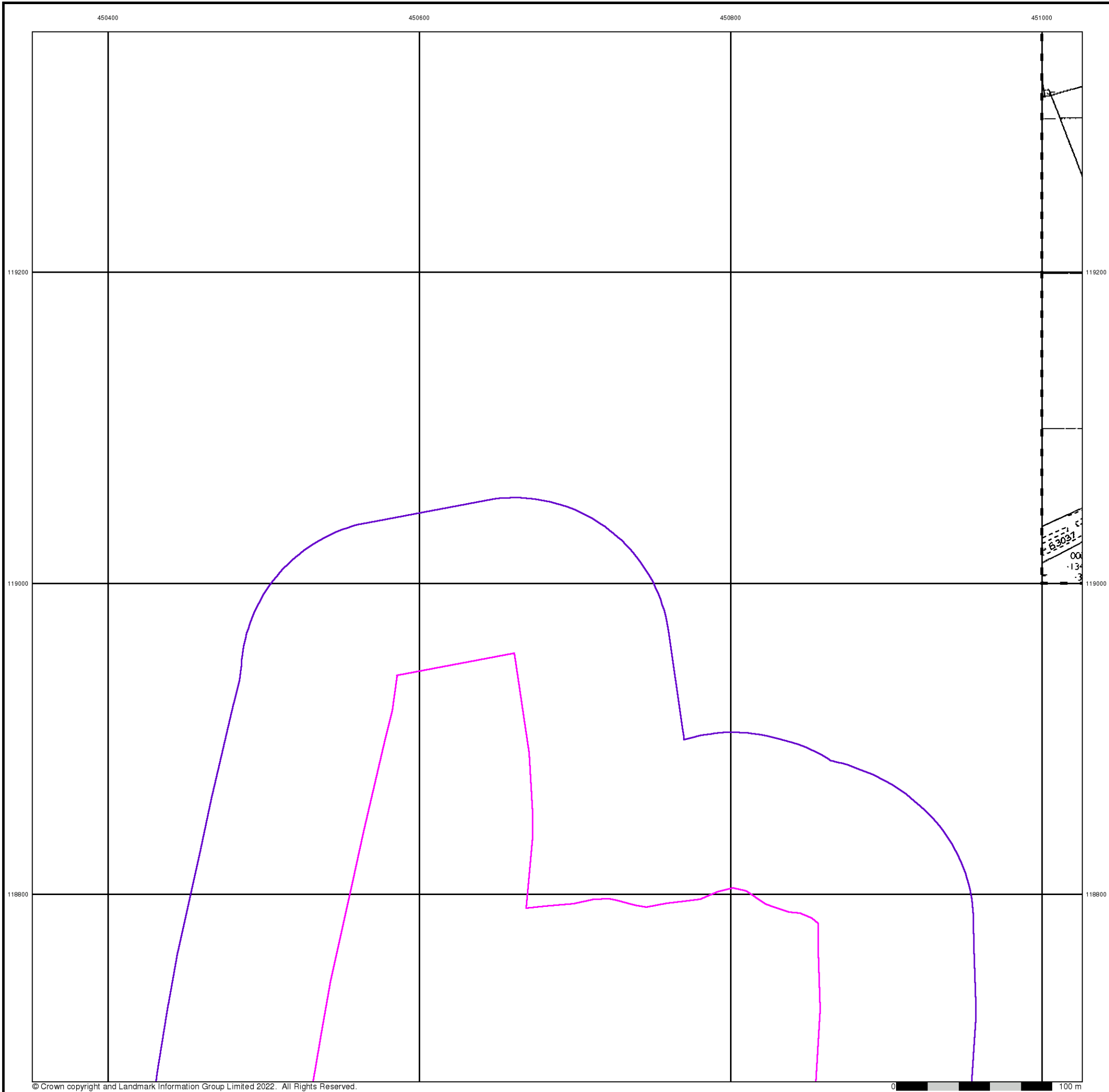
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Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690



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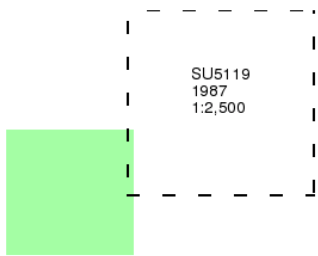
**Geo-Environmental
Additional SIMs**

Published 1987

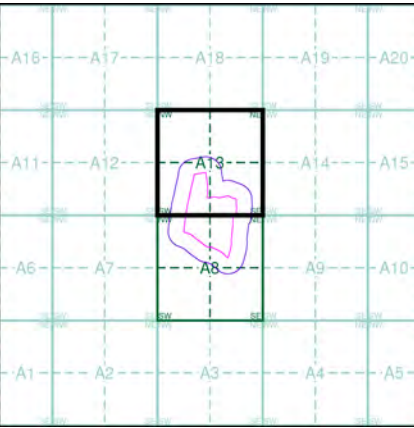
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

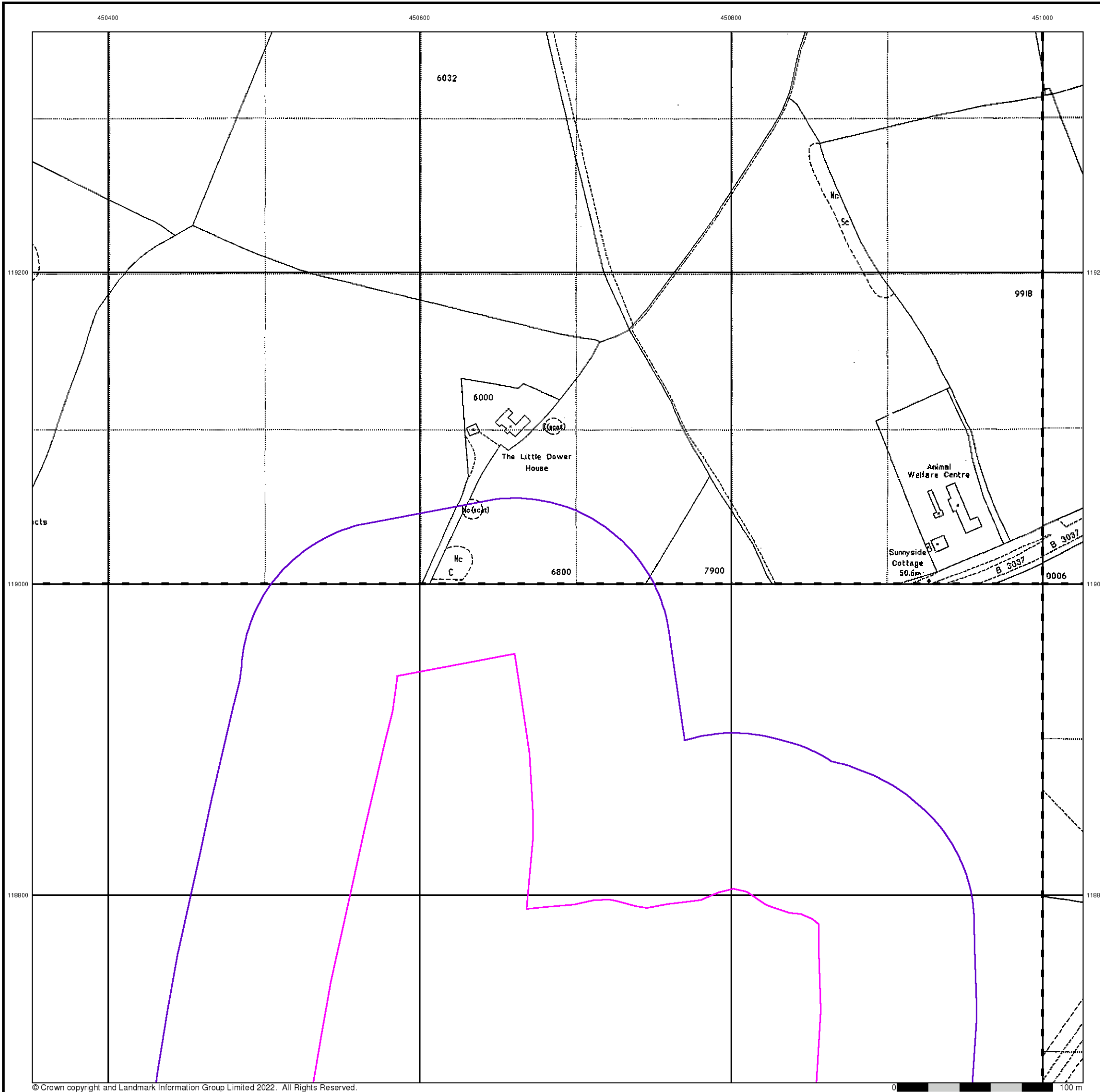
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690



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Geo-Environmental Large-Scale National Grid Data

Published 1993

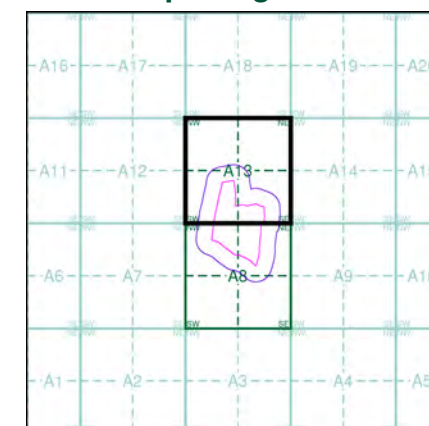
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SU5019	SU5119
1993	1993
12,500	12,500
	SU5118
	1993
	12,500

Historical Map - Segment A13



Order Details

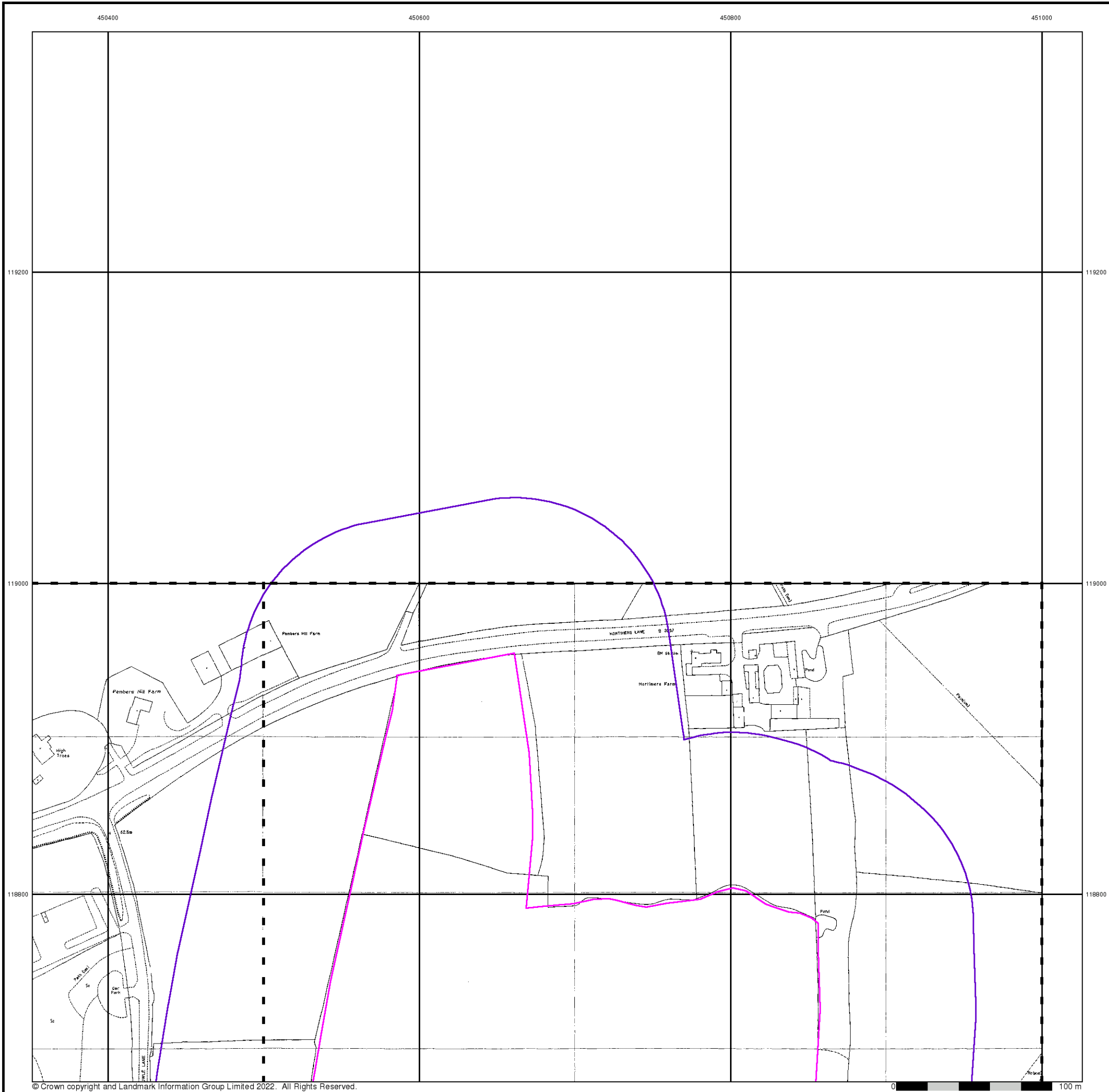
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690

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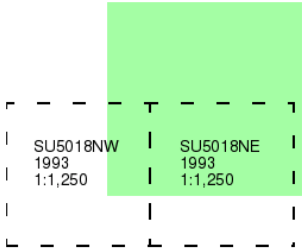
**Geo-Environmental
Large-Scale National Grid Data**

Published 1993

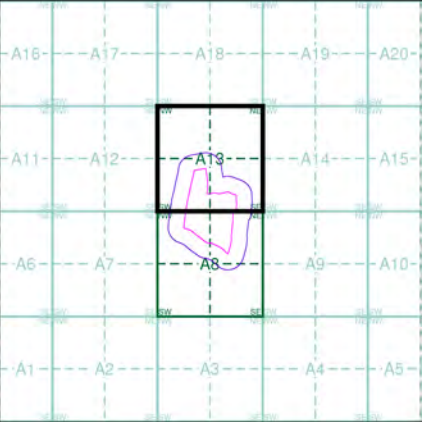
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

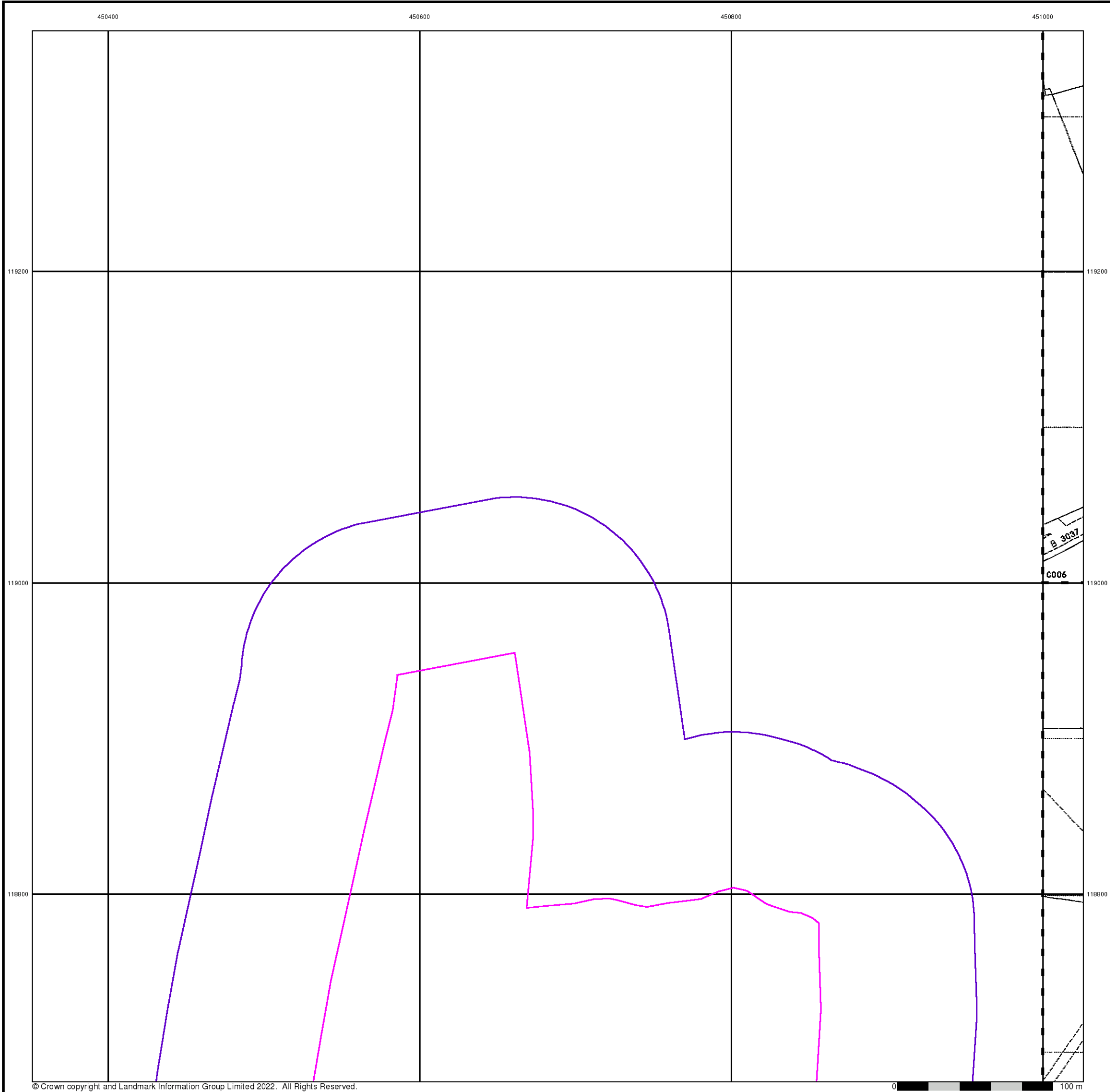
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690



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**Geo-Environmental
Large-Scale National Grid Data**

Published 1996

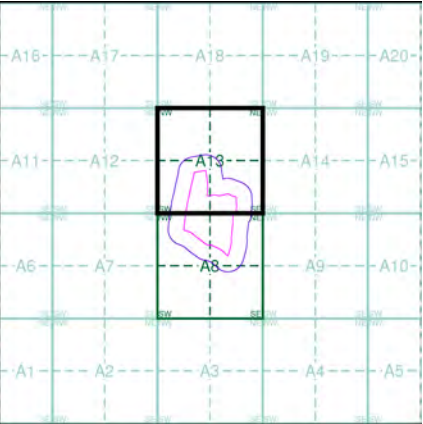
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

	SU5119 1996 1:2,500
	SU5118 1996 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690



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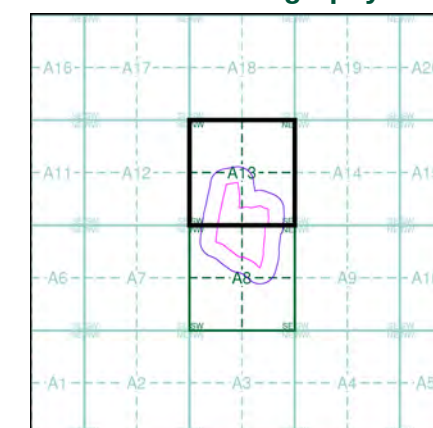


Geo-Environmental Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

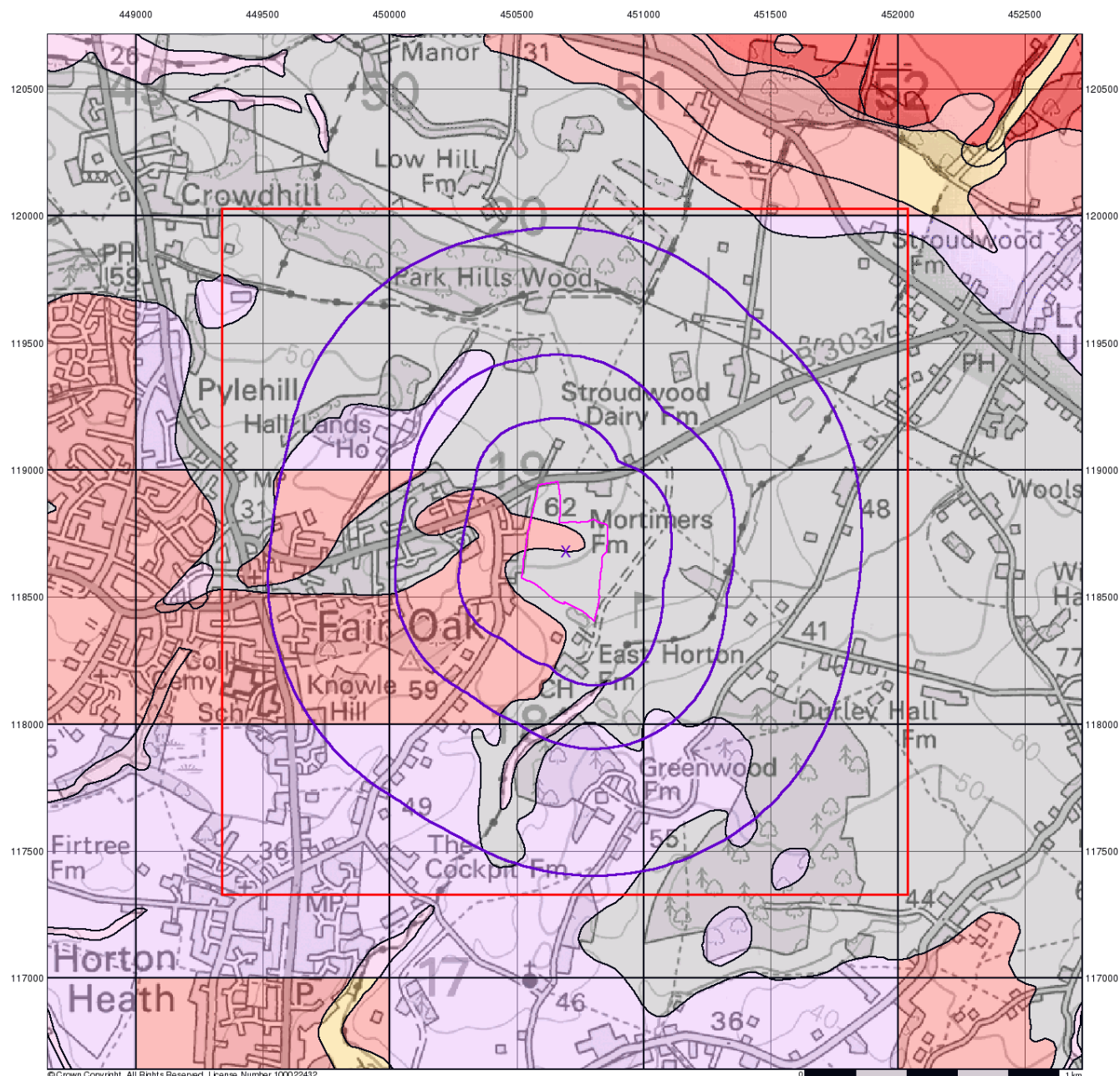
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Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 100

Site Details

Site at 450680, 118690

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Geo-Environmental Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

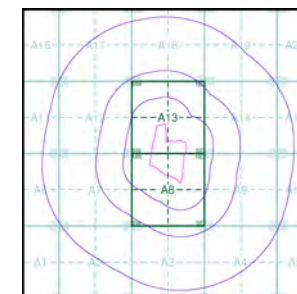
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

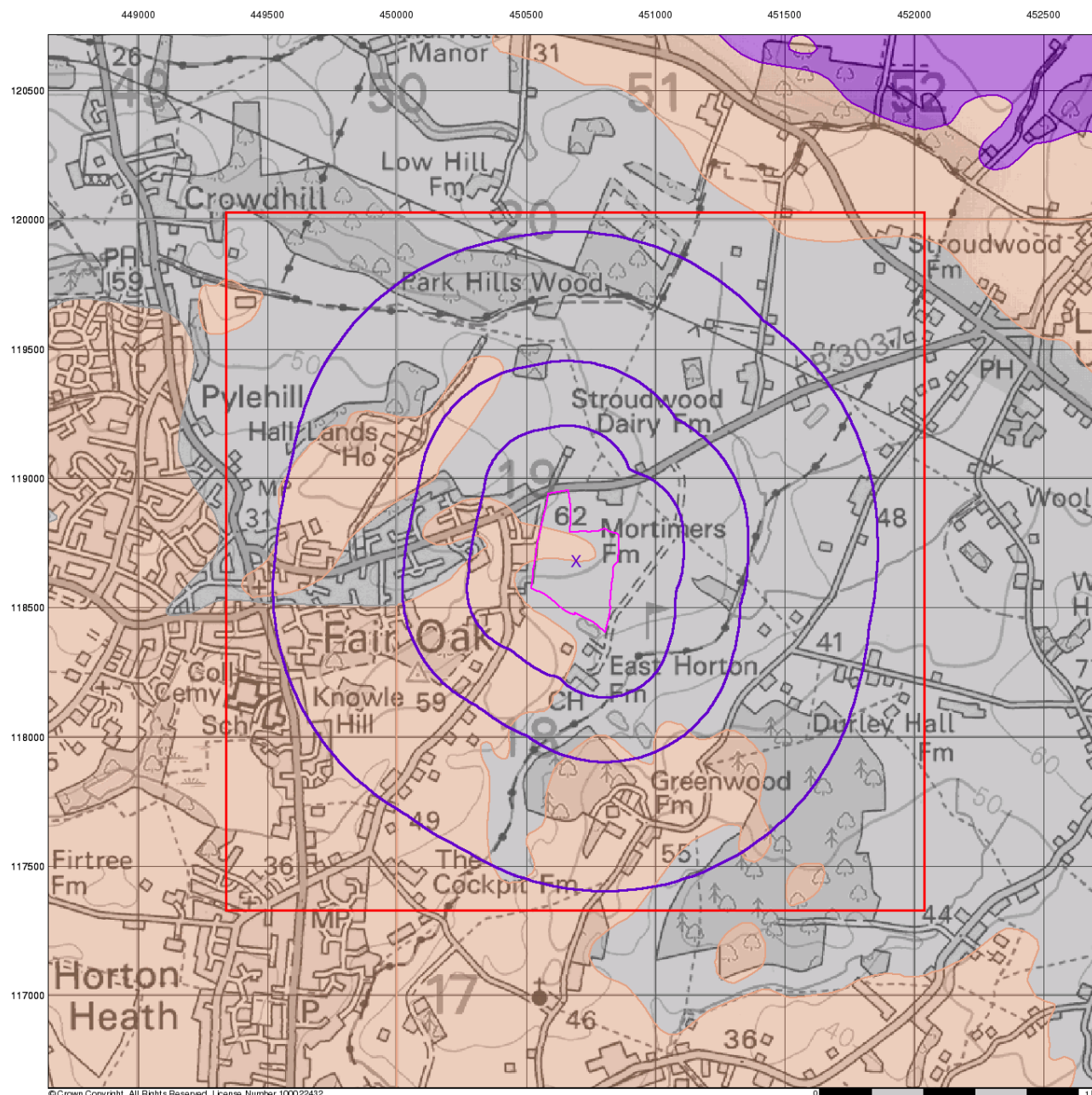
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

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0 1 km



Geo-Environmental Bedrock Aquifer Designation

General

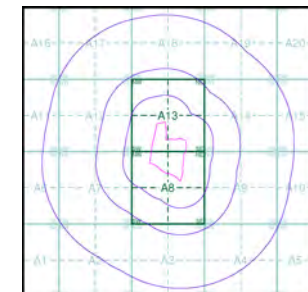
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

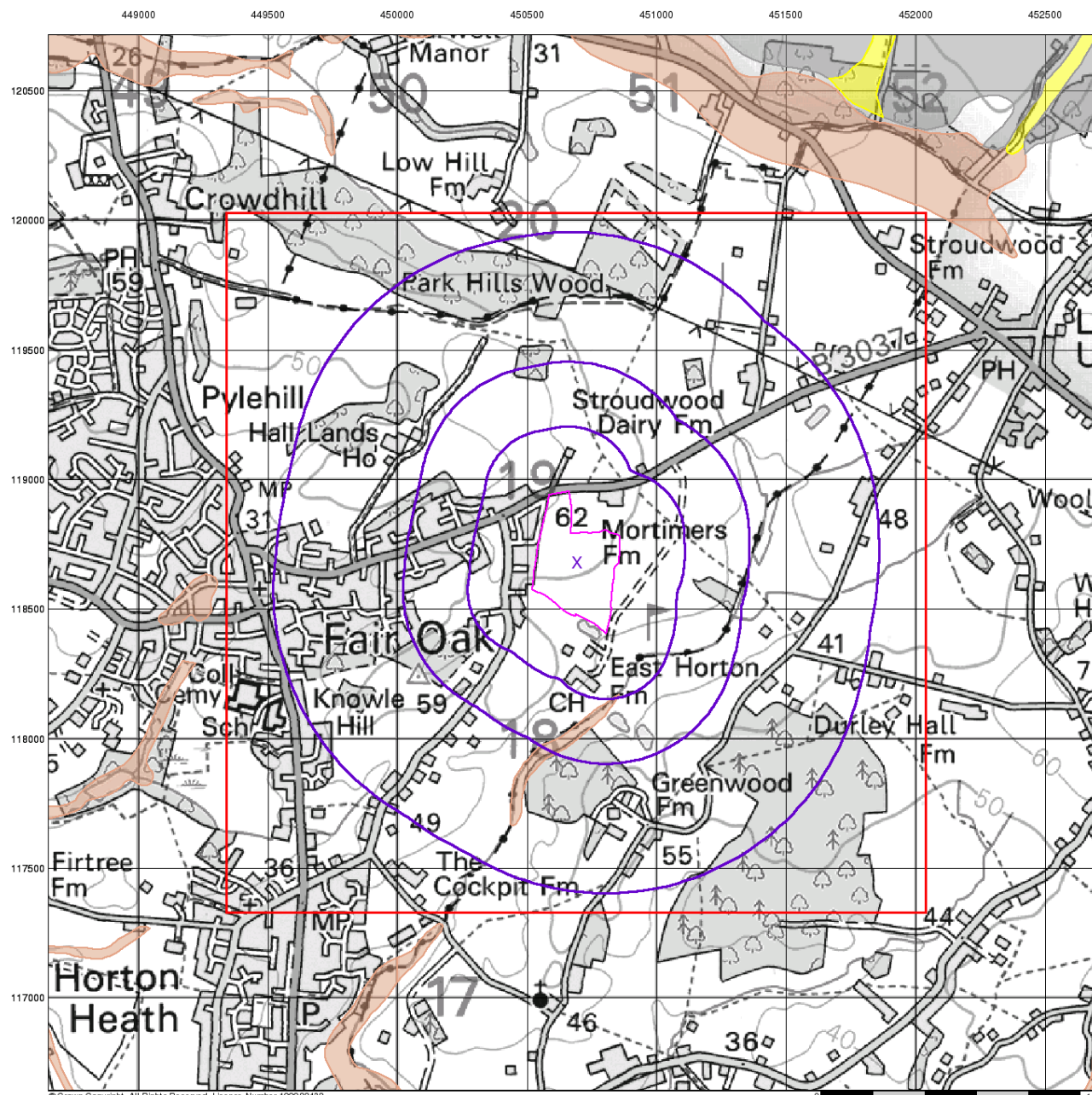
Order Number: 304784389_1_1
 Customer Ref: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

Site at 450680, 118690

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Geo-Environmental Superficial Aquifer Designation

General

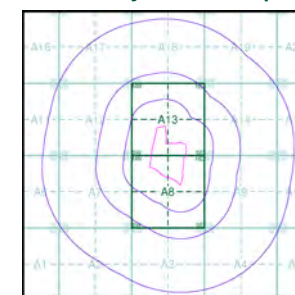
- ◇ Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice 8 Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

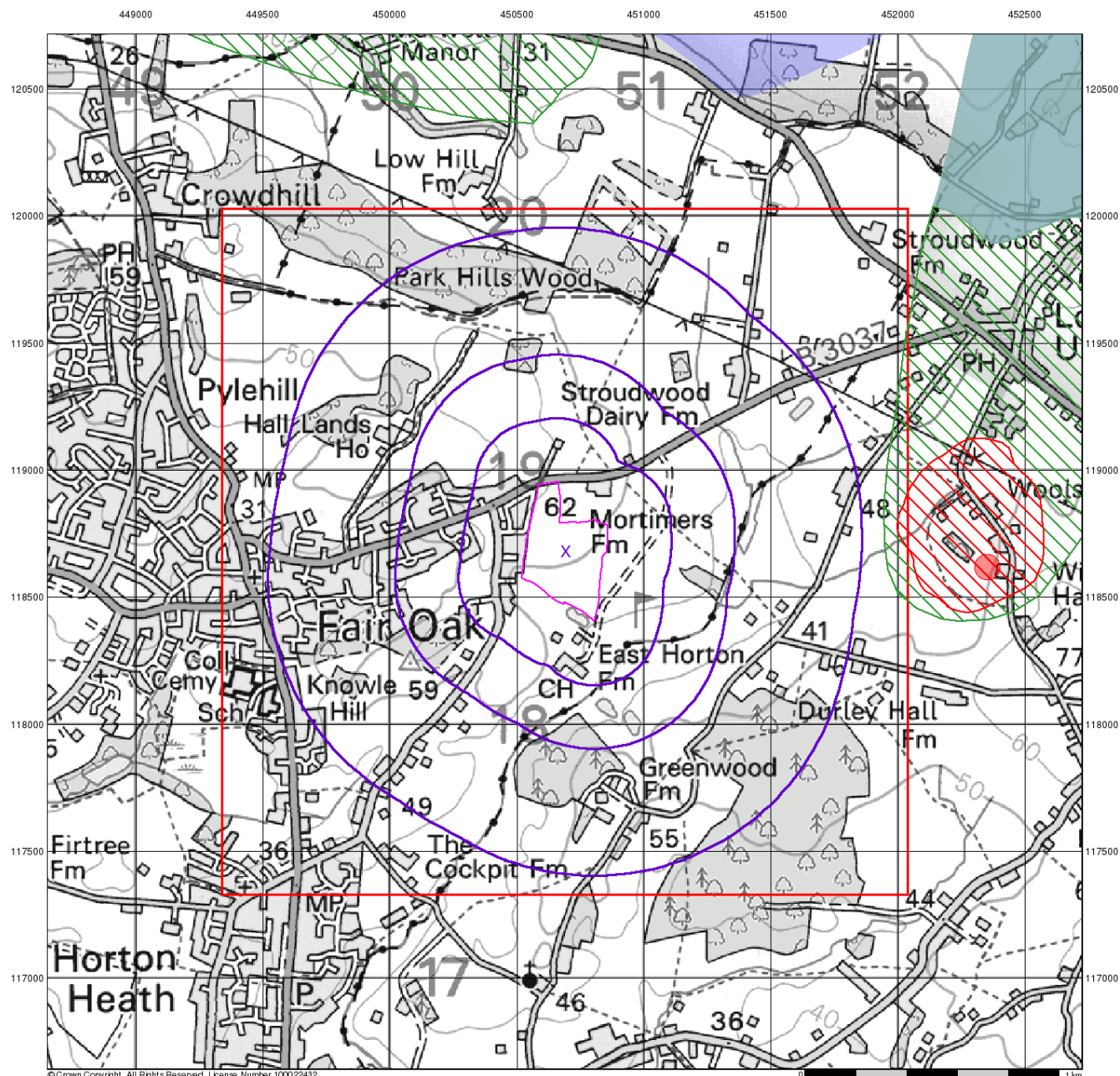
Order Number: 304784389_1_1
 Customer Ref: GE21215
 National Grid Reference: 450690, 118690
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

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Geo-Environmental Source Protection Zones

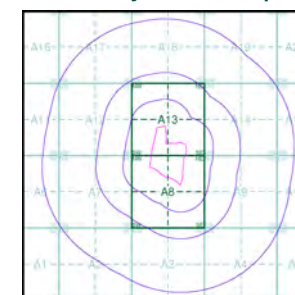
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

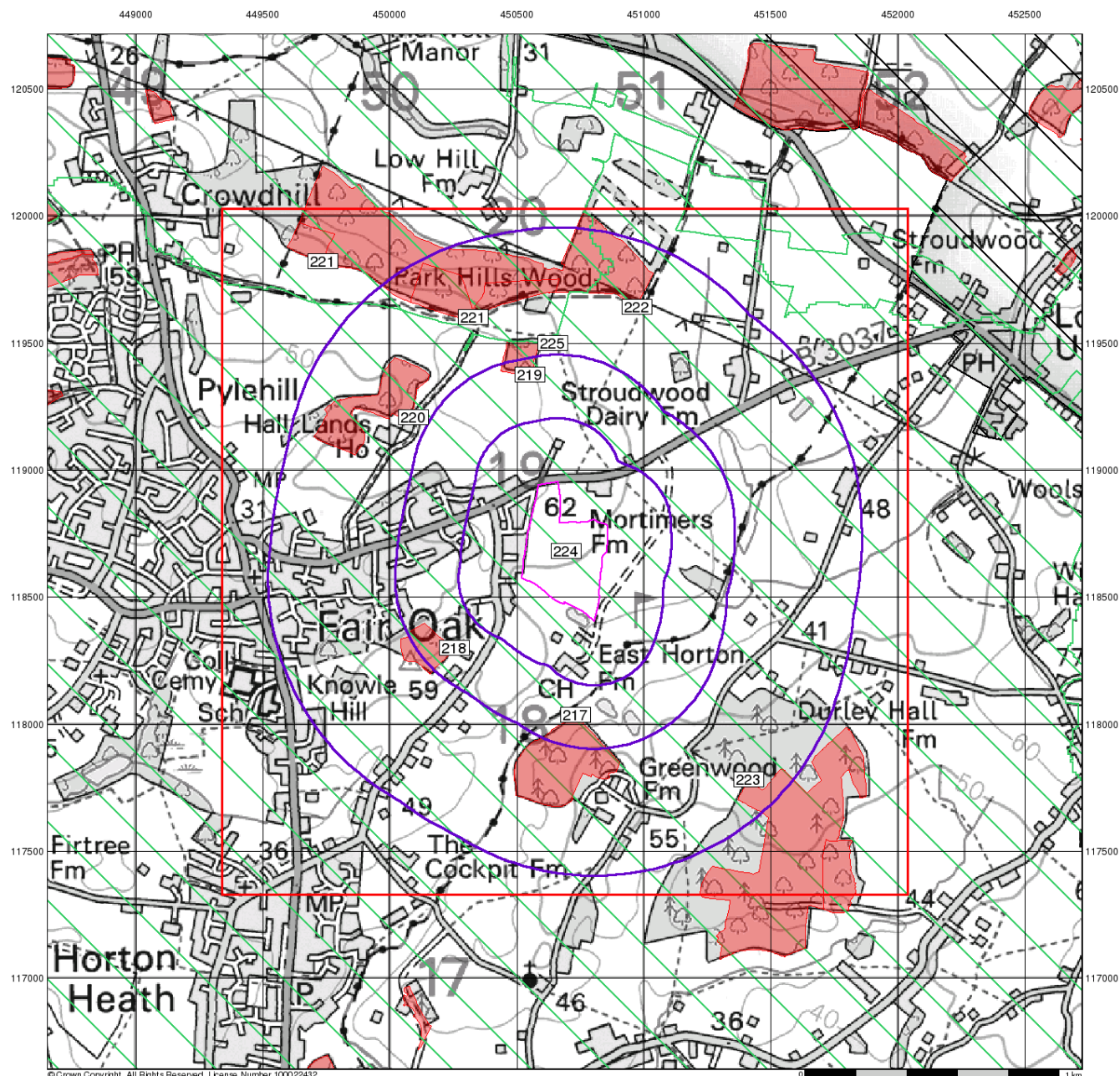
Order Number: 304784389_1_1
 Customer Ref: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

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Geo-Environmental Sensitive Land Uses

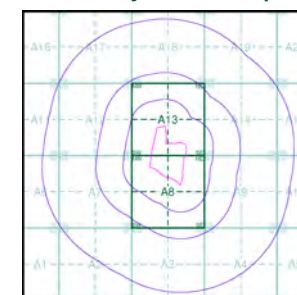
General

- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

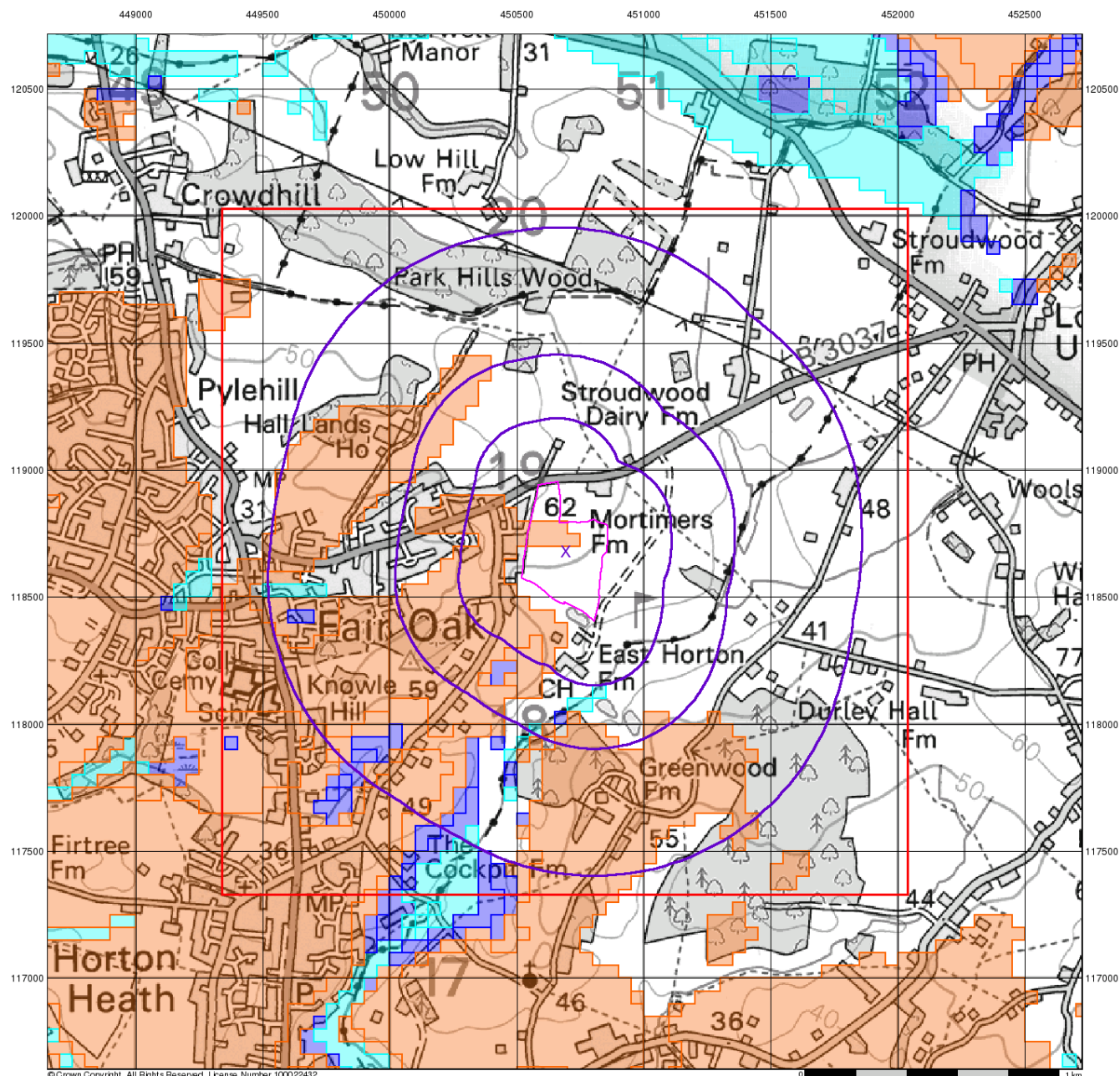
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 Customer Ref: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

Site at 450680, 118690

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Geo-Environmental

BGS Flood GFS Data

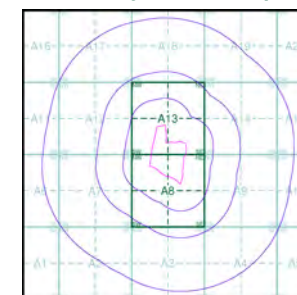
General

- ◆ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 304784389_1_1
 Customer Ref: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

Site at 450680, 118690

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	HEAD	Head	Gravel, Sand, Silt and Clay	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	CWF	Clay-with-flints Formation	Clay, Silt, Sand and Gravel	Not Supplied - MIOCENE

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Not Supplied - Ypresian
	WTT	Wittering Formation	Sand, Silt and Clay	Not Supplied - Ypresian
	DYSA	Durley Sand Member	Sand	Not Supplied - Eocene
	LMBE	Lambeth Group	Clay, Silt and Sand	Not Supplied - Thanetian
	LMBE	Lambeth Group	Sand	Not Supplied - Thanetian
	WHI	Whitecliff Sand Member	Sand	Not Supplied - Palaeogene
	TACH	Tarrant Chalk Member	Chalk	Not Supplied - Campanian



Geo-Environmental

Geology 1:50,000 Maps

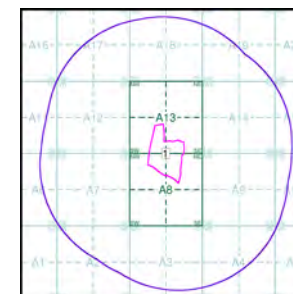
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	315
Map Name:	Southampton
Map Date:	1987
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

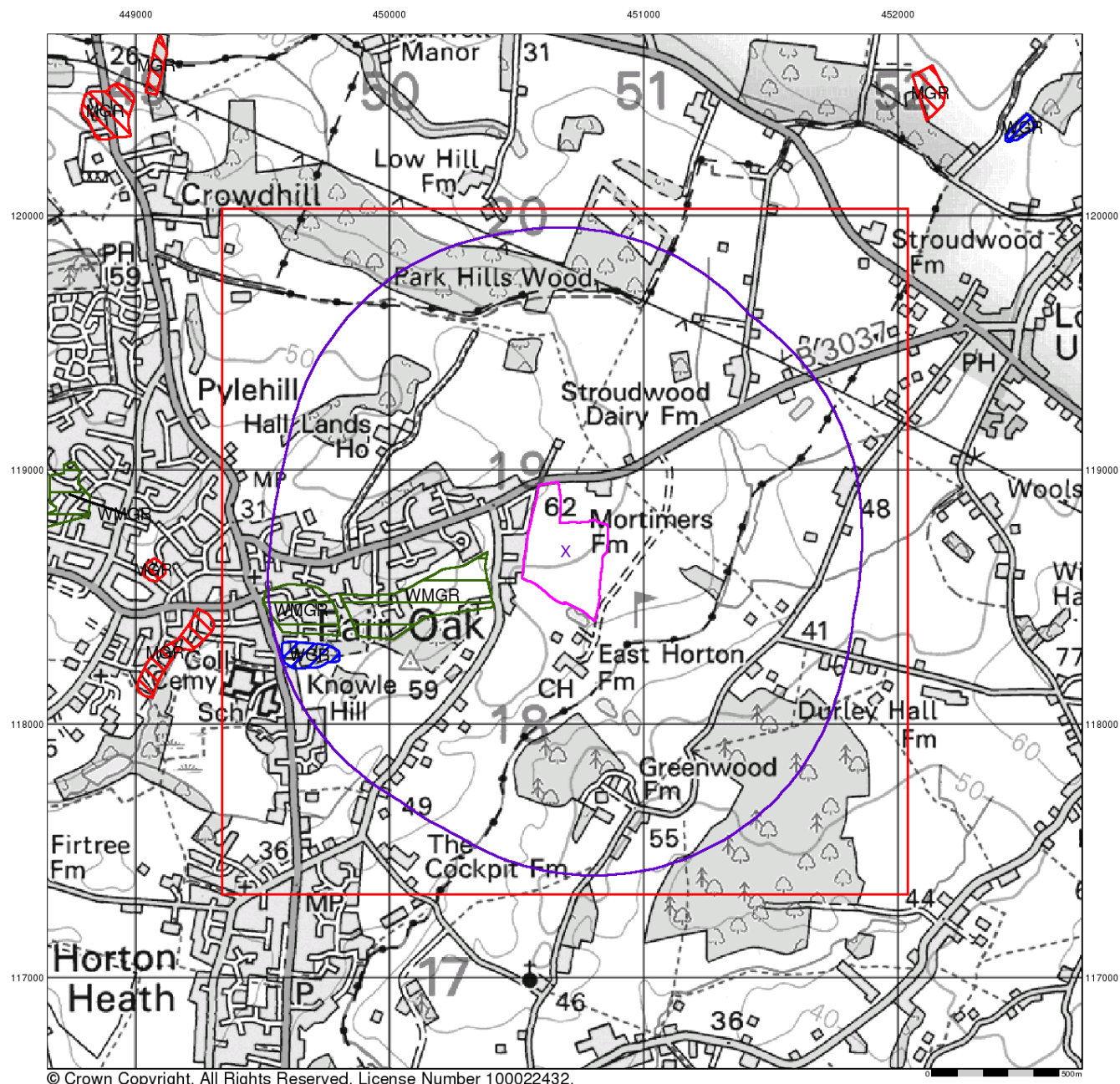


Order Details:

Order Number:	304784389_1_1
Customer Reference:	GE21215
National Grid Reference:	450690, 118680
Slice:	A
Site Area (Ha):	10.97
Search Buffer (m):	1000

Site Details:

Site at 450680, 118690



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Geo-Environmental

Artificial Ground and Landslip

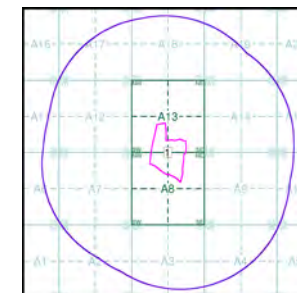
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 304784389_1_1
 Customer Reference: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details:

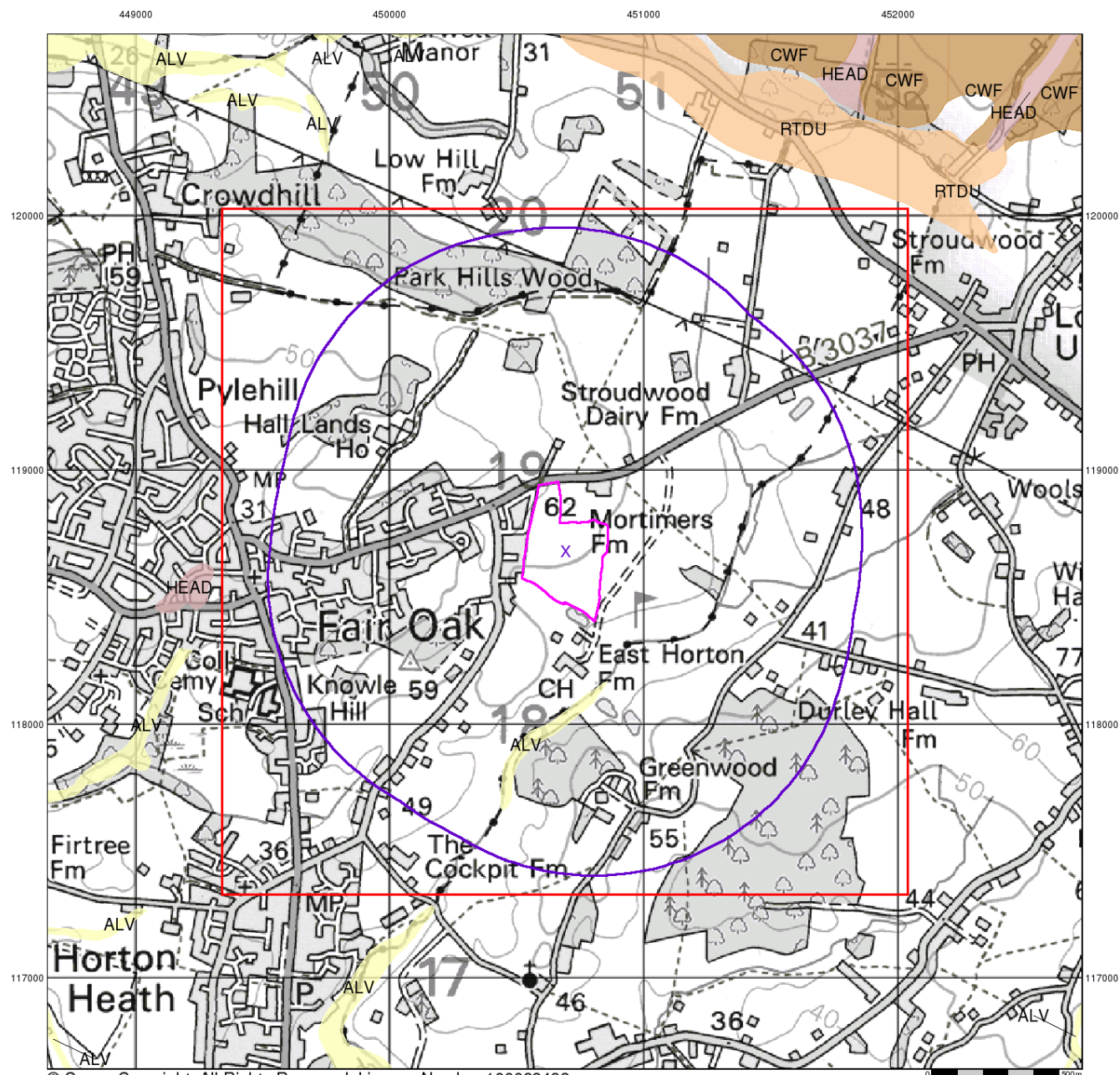
Site at 450680, 118690

Landmark
 INFORMATION GROUP

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v15.0 07-Dec-2022

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Geo-Environmental

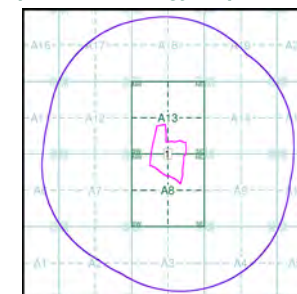
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

Order Number: 304784389_1_1
 Customer Reference: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details:

Site at 450680, 118690

Landmark
 INFORMATION GROUP

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APPENDIX B

Site Photographs





Plate 1 View north from central portion of the site



Plate 2 View east across the site



Plate 3 View south west towards southern western corner of the site



Plate 4 View south with Fair Oak Landfill site beyond



Plate 5 View east across the site



Plate 6 View south east across the site



Plate 7 View south along western site boundary



Plate 8 View south east across southern field



Plate 9 View north along western site boundary



Plate 10 View south to south western corner



Plate 11 View south east of southern portion of the site



Plate 12 View east across the southern field



Plate 13 View north east across the southern field



Plate 14 View north across southern field



Plate 15 View east across southern field



Plate 16 View of Fair Oak Landfill site and gas extraction system



Plate 17 View of the offsite Fair Oak Landfill with gas extraction system



Plate 18 View west along the southern site boundary



Plate 19 View east along the southern site boundary



Plate 20 View south east towards south eastern corner



Plate 21 View east across the southern field



Plate 22 View north across the southern field



Plate 23 View west across the northern field



Plate 24 View south west from the access track