



Ground and Environmental Services Limited

Unit 2 Montpelier Business Park
Dencora Way
Ashford
Kent
TN23 4FG
01233 646237

**Barn at Northfleet Green
Northfleet Green Road
Gravesend
DA13 9PT**

Phase 1 Contamination Risk Assessment

On behalf of Bob Arnold



Document Reference: 12977

December 2022

air quality assessment contaminated land ecology environmental audits noise assessment
environmental impact assessments flood risk assessments geotechnical engineering ground investigation
hydrogeology noxious weeds remediation design risk assessments waste management

**Site: Barn at Northfleet Green, Northfleet Green Road,
Gravesend, DA13 9PT**

Document Reference No: 12977

Quality Management

Prepared by:	PJ
Reviewed by:	KM
Authorised by:	KM
Date	12/22
Revision	0

Table of Contents

1	INTRODUCTION.....	1
2	SITE LOCATION AND LAYOUT	1
3	SITE HISTORY	1
4	ENVIRONMENTAL SETTING	2
4.1	GEOLOGY.....	2
4.2	GROUNDWATER.....	3
4.3	RADON.....	3
4.4	OTHER ENVIRONMENTAL INFORMATION.....	3
5	SITE WALKOVER	4
6	CONTAMINATION RISK ASSESSMENT	4
6.1	CONTAMINANT SOURCES	5
6.2	RISK TO HUMAN HEALTH.....	5
6.3	RISKS TO WATER RESOURCES	6
6.4	RISKS TO PLANTS.....	6
6.5	RISKS TO BUILDINGS & SERVICES.....	6
6.6	WASTE DISPOSAL.....	6
7	PRELIMINARY CONCEPTUAL SITE MODEL.....	7
8	CONCLUSIONS AND RECOMMENDATIONS	9

Appendices

1. Historical Maps
2. Envirocheck Report
3. Site Photographs

Figures

1. Proposed Development Plan
2. Site Layout Plan

1 INTRODUCTION

Ground and Environmental Services Ltd (GES) was commissioned to undertake a Phase 1 Contamination Risk Assessment at a proposed development site at Northfleet Green, Northfleet Road, Gravesend, DA13 9PT.

It was understood that the proposed development of the site will comprise the Change of use and conversion of the existing barn into 2no. residential dwellings, with associated private gardens, vehicle parking, and “paddock areas”. A Proposed Development Plan is attached at Appendix 1.

The purpose of the Phase 1 report is to identify environmental liabilities associated with the site and delineate any areas of contamination resulting from the site’s previous and current usage. In addition, a conceptual model of the site will show the relationship between any sources of contamination, potential receptors, and the pathways for any contamination on site.

2 SITE LOCATION AND LAYOUT

The site is situated in the hamlet of Northfleet Green, Kent, in a rural setting. The site is located at approximate Grid Reference TQ624710, with the following features immediately bounding the site:

- North, the site is bound by Northfleet Green Road, beyond which is farmland.
- East, the site is bound by open ground with 2no. large electricity pylons.
- South, the site is bound by a large agricultural field.
- West, the site is bound by a domestic dwelling.

The site comprises a disused agricultural barn and area of open ground. A site walkover was undertaken on 8th December 2022, details of which are included in Chapter 5 of this report. A Site Layout Plan is included at Figure 2.

3 SITE HISTORY

A map search was carried out for the site covered by the planning application and extracts of the following Ordnance Survey maps were obtained covering the period between 1874 and 2022.

These are presented in Appendix 1 and the relevant historic details are summarised as follows:

Barn at Northfleet Green, Northfleet Road, Gravesend

Phase 1 Contamination Risk Assessment



Mapping Date Range	On Site	Surrounding Area
1874-1885	The site comprises a barn in the western part, with the remainder of the site comprising part of an orchard.	The site is bound to the north by a road, beyond which is open field. The site is bound to the west and south by orchard. To the west and south-west, the site is bound by a farmyard. The surrounding land is predominantly agricultural land.
1896	Minor addition to the barn in the western part of the site. Two grain silos in the north-western part of the site, adjacent to the barn's northern end.	Some farm outbuildings noted along the western boundary. No further significant development noted.
1908-1909	No significant development is noted on site.	No significant development is noted in the surrounding area.
1938		Small structure immediately south of the site, assumed to be part of the farm complex.
1961-1962	Minor demolition of the southern end of the barn, and grain silos no longer shown. Barn now occupies the same footprint as present day. Remainder of the site is open ground – the orchard is no longer shown.	Orchard to the south and east of the site no longer shown. The farm complex immediately west of the site is no longer shown. Electricity pylon immediately west of the site.
1966-1974	No significant development is noted on site.	No significant development is noted in the surrounding area.
1985		
1992		
1999		
2022		Dwelling noted immediately west of the site.

4 ENVIRONMENTAL SETTING

4.1 GEOLOGY

Reference to the British Geological Survey online geological map of the area indicates that the anticipated geology underlying the site comprises the Thanet Formation - Sand.

The geological memoir for the area described these strata as follows:

Thanet Formation - Sand

Barn at Northfleet Green, Northfleet Road, Gravesend

Phase 1 Contamination Risk Assessment



Typically composed of homogeneous, bioturbated, glauconitic silty fine-grained sand, with sandy silt, silt or sandy, silty clay especially in the lower part, forming a coarsening-upwards sequence. The deposits are generally pale yellow-brown in colour, typically with a 'peppering' of dark-coloured glauconite grains. Sparse white mica occurs throughout. Rare coarse gravel is present in places in London. Patchy calcareous, siliceous or ferruginous cement occurs locally. A thin gravel and cobble bed (the 'Bullhead Bed') is generally present at the base. It comprises unworn green-coated flints in a matrix of green, glauconite-rich clayey sand.

4.2 GROUNDWATER

Reference to the British Geological Survey 1:50,000 scale Aquifer Designation Dataset, shows the site to be set upon a Secondary (A) Aquifer within the Thanet Sand. The soils are classed as having a high vulnerability.

The site is situated within an Environment Agency-designated Groundwater Source Protection Zone II (Inner Zone).

4.3 RADON

Reference to the National Radiological Protection Board's "Radon Atlas of England and Wales" indicated that less than 1% of homes are estimated to be at or above the Action Level of 200 Bq/m³). Therefore, no special measures need be incorporated into new buildings.

4.4 OTHER ENVIRONMENTAL INFORMATION

Reference was made to the environmental database landmark, extracts from which are provided in Appendix 2. Relevant information relating to the sites environmental sensitivity is summarised as follows:

Dataset		On site	Nearest significant off-site feature
Agency & Hydrological	Pollution Incidents to Controlled Waters	None	398m south-west. 1998. Sewer Overflow; Due to Blockage; Flowing into Pond. Category 3 – Minor Incident.
	Water Abstractions	None	413m north-east. Public water supply.
	Nearest Surface Water Feature	None	64m west.
	OS Water Network Lines	None	863m north. Inland River.
Industrial Land Use	Contemporary Trade Directory Entries	None	116m east. Commercial Cleaning Service. Inactive.
	Gas Pipelines	None	449m south.
Sensitive Land Use	Areas of Adopted Green Belt	Adopted	
	Nitrate Vulnerable Zones	Groundwater	

5 SITE WALKOVER

A site walkover was undertaken by an experienced Environmental Consultant on 8th December 2022. Photographs taken at the time of the walkover are included at Appendix 3. The current site layout is included in Figure 2 - Site Layout Plan.

At the time of the walkover the site comprised a wooden framed agricultural barn, and brick barn, forming an L-shape. The sides and roofing of the wooden barn were noted to comprised suspected corrugated asbestos cement sheeting. The roof and sides of the barn appeared to be in good condition and no suspected asbestos materials were noted on the ground surface immediately surrounding the barn.

The internal floors of both buildings were concrete hardstanding, which was noted to be in good condition with no visible staining or free product noted within. No strong hydrocarbon odours were noted within the building, nor anywhere on site.

The remainder of the site was set to open ground with some grassed areas. A metal skip was noted on site, but this was empty, and no evidence of any staining, liquids, or hydrocarbon odours was noted within or in the immediate vicinity.

No potentially contaminative materials were identified anywhere on site. The site appeared to be tidy and well-maintained.

6 CONTAMINATION RISK ASSESSMENT

This risk assessment has been undertaken with due regard to the advice relating to groundwater as provided in the Environment Agency's "Methodology for the Derivation of Remedial Targets for Soil and Groundwater to Protect Water Resources", the advice provided in the Contaminated Land (England) Regulations 2000, and the associated statutory guidance. The guidance defines contaminated land as any land that is in such a condition that by reason of substances in, on or under the land:

- significant harm is being caused or there is a significant possibility of such harm being caused; or
- pollution of controlled water is being or is likely to be caused.

This definition is based on the principles of risk assessment defined as a combination of the probability (or frequency) of occurrence of a defined hazard and the magnitude (including the seriousness) of the consequences. Central to the risk assessment process is the concept of pollutant linkage, that is a linkage between a contaminant and a receptor by means of a pathway.

Statutory definitions relating to pollution linkage.	
Contaminant	"a substance which is in, on or under the land and which has the potential to cause harm or to cause pollution of controlled waters."
Receptor	"a living organism, a group of living organisms, and ecological system or a piece of property" which meets given criteria. "controlled waters which are, or could be, polluted by a contaminant".
Pathway	"one or more routes or means by, or through, which a receptor: • is being exposed to, or affected by, a contaminant, or • could be so exposed or affected".

The relationship between these components is discussed below in order to identify the existence of any source-pathway-receptor linkage on the site, and hence the potential risks associated with any contamination. This risk assessment is based on a proposed residential end use of the site.

The significance of the risks to the receptors/targets identified is based on an evaluation of the potential pathways between the contaminant source and receptors based on a residential with plant uptake end use of the site.

Potential receptors/targets at the site and in the area in which the site is located include:

- future users and the public.
- construction/maintenance workers.
- groundwater resources.
- underground services in and around the site.

6.1 CONTAMINANT SOURCES

The site has been occupied since at least c.1870s, with the current footprint remaining unchanged from c.1960s to the present day. No potential sources of contamination were identified during the historical map search of the site. Surrounding land use has been open country/farmland, with a farm to the immediate west.

6.2 RISK TO HUMAN HEALTH

Potential sources of significant concentrations of toxic metals were not identified during the historical map survey or walkover of the site. Therefore, the risks to human health from these contaminants is considered to be low.

Potential sources of significant organic contamination across the site were not identified in the historical map search or walkover survey. As such it is considered that the soils on site would be unlikely to pose a risk of significant harm to human health.

6.3 RISKS TO WATER RESOURCES

The geology underlying the site comprises the Thanet Formation – Sand, designated as a Secondary (A) Aquifer. The site is situated within a Groundwater Source Protection Zone II.

The nearest potable water abstraction is 413m north-east.

In the absence of any clear onsite liquid contamination sources the risk to water resources is considered low.

6.4 RISKS TO PLANTS

Potential sources of significant concentrations of phytotoxic metals were not identified during the historical map survey or walkover of the site. All vegetation present on site was noted to be in good condition with no visible evidence of any dead patches, unusual growth, or discolouration. Therefore, the risk to plants is considered to be low.

6.5 RISKS TO BUILDINGS & SERVICES

Given the absence of significant sources of ground contamination it is considered that the risks to proposed buildings and services are very low. This assumption is made based upon the absence of any clear onsite contamination identified during both the walkover survey and the historical maps.

6.6 WASTE DISPOSAL

Asbestos materials should be removed by a suitably qualified person or persons and disposed of at a facility licensed to accept asbestos waste.

Should any further suspected asbestos materials be encountered during the development works, it should be disposed of to a suitably licensed waste facility. Dismantling of asbestos should be done by a suitably qualified person or persons. All certification and waste transfer documentation should be retained by the client.

Should an excess volume of soil be required to be disposed of off-site then a waste classification may be required.

For a waste classification to be undertaken, materials may need to be subjected to leachate testing which would give an indication to the soluble component of contaminants and, therefore those most toxic to the environment in the waste. The classification will



then allow the appropriate disposal pathway to a suitably licensed disposal facility to be determined.

7 PRELIMINARY CONCEPTUAL SITE MODEL

A Preliminary Conceptual Site Model (PCSM) is a system diagram identifying contaminant sources, routes of exposure (pathways), and which receptors are affected by contaminants moving along those pathways.

The model is produced to identify the zones of the site with different potential contaminations characteristics (e.g. whether contaminants in the soil are likely to be on the surface or at depth, distributed over an entire area or in localised 'hot spots').

The PCSM presented in the table below is based on the findings of the desk study and site walkover.

Barn at Northfleet Green, Northfleet Road, Gravesend

Phase 1 Contamination Risk Assessment



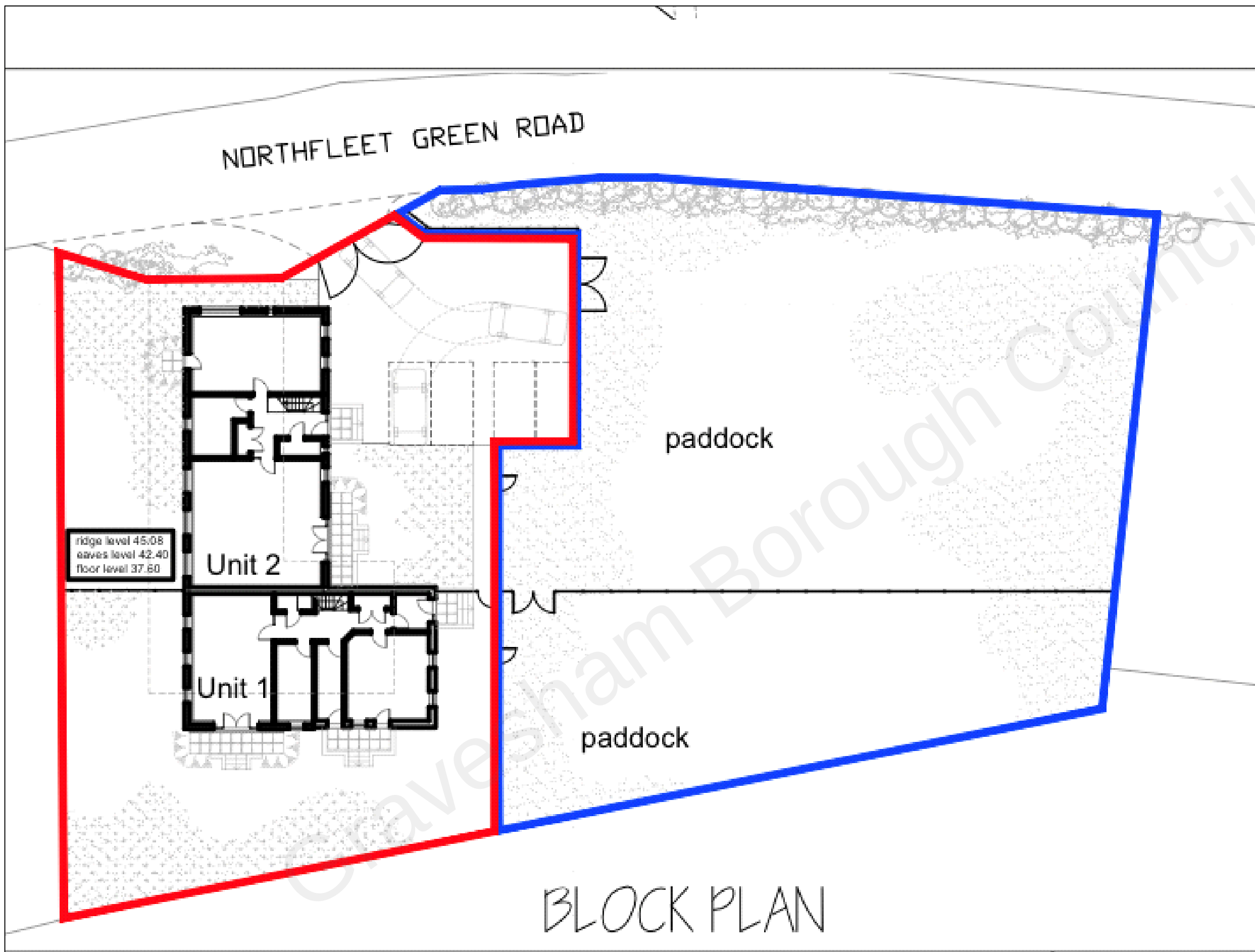
Source	Pollutant	Pathway	Hazard	Receptor	Observations/ Recommendations	Assessed Risk
Contaminated ground	Metals (i.e. arsenic, copper, cobalt lead), and organic compounds.	→ Direct contact, ingestion, and inhalation.	Health risks including skin irritation.	→ Humans: site workers and future occupants.	No potential sources of significant contamination identified historically or during the site walkover.	Low
		Ingestion.	Consumption of homegrown produce.	→ Humans – future site users.		Low
		Uptake by plants.	Phytotoxic effects.	→ Soft landscaped areas / plants.	No potential sources of contamination identified on site. No suitable growth media noted on site.	Low following placement of suitable growth media.
		Surface run off from hardstanding areas.	Lateral movement to surface watercourses.	→ Aquatic resources, ecology and subsequent users including humans.	No sources of mobile contamination observed at surface.	Low
		Leaching/ Dispersion.	Downward migration to groundwater.	→ Aquatic resources – Groundwater abstractions wells / surface waters.		Low
		Direct contact	Aggressive chemical attack	→ Building structures and services	No potential sources of contamination identified on site.	Low
Liquid contaminant sources	Diesel, Petrol and Oils.	→ Direct contact; ingestion, inhalation.	Health risks including skin irritation. Lateral and vertical migration of contaminants.	→ Humans: site workers and future occupants. Groundwater and surface water.	No potential sources of contamination identified on site.	Low
Building materials	Asbestos.	→ Inhalation.	Asbestosis.	→ Humans: site workers.	Potential asbestos cement roofing and siding materials. Removal by appropriately qualified persons and disposed of at a suitably licensed facility. Appropriate PPE should be worn.	Low
Landfill, Madeground	Ground gases (CO ₂ , CH ₄)	Inhalation and ingress into buildings	Asphyxiation and explosions	Buildings/ humans/ future site users	No potential sources of contamination identified on site.	Low

8 CONCLUSIONS AND RECOMMENDATIONS

Ground and Environmental Services Ltd undertook a Phase 1 Contamination Risk Assessment at a proposed development site at a Barn at Northfleet Green, Northfleet Road, Gravesend, DA13 9PT. The purpose of the Phase 1 report was to identify environmental liabilities associated with the site and delineate any areas of contamination resulting from the site's previous and current usage.

- The site comprises a wooden framed agricultural barn, and brick barn, forming an L-shape, with the remainder of the site set to open ground.
- The site has been occupied since c.1870s. Surrounding land has been predominantly agricultural.
- The geology underlying the site comprises the Thanet formation – Sand, designated as a Secondary (A) Aquifer.
- The site is situated within a Groundwater Source Protection Zone II.
- No visual evidence of significant contamination was identified during the historical map search or site walkover.
- The risks to human health, plants, water resources, and buildings and services are considered to be low in the absence of any identifiable sources of ground contamination.

Based on the risk assessment procedures set out in the Contaminated Land Statutory Guidance, April 2012 (pertaining to The Contaminated Land (England) Regulations 2006), the risks posed to future site users are considered to be low based on a residential end use with plant uptake.



- KEY:
- WS - WINDOW SAMPLE
 - BH - BOREHOLE
 - (I) - INSTALLATION
 - TP - TRIAL PIT
 - HDTP - HAND DUG TRIAL PIT
 - SP - SOAKAGE PIT
 - ▲ DCP - DYNAMIC CONE PENETRATION
 - DP - DYNAMIC PROBE
 - HA - HAND AUGER
 - PT - PERCOLATION TEST
 - GM - GAS MONITORING STANDPIPE
 - S - SAMPLE LOCATION

CLIENT:
BOB ARNOLD

SITE ADDRESS:
BARN AT NORTHFLEET GREEN
NORTHFLEET GREEN ROAD
DARTFORD
DA13 9PT

DRAWING NO.:
FIGURE 1

DRAWING TITLE:
PROPOSED DEVELOPMENT PLAN

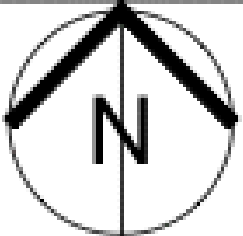
PROJECT NO.: 12977	DATE: 12/22
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DRAWN: PJ	REVISION: 00
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GROUND AND ENVIRONMENTAL
SERVICES (GES) LIMITED
UNIT 2
MONTPELIER BUSINESS PARK
DENCORA WAY
ASHFORD
KENT TN23 4FG
TEL: 01233 646 237



Scale (m) 1:500





- KEY:**
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 - BH - BOREHOLE
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CLIENT:
BOB ARNOLD

SITE ADDRESS:
BARN AT NORTHFLEET GREEN
NORTHFLEET GREEN ROAD
DARTFORD
DA13 9PT

DRAWING NO.:
FIGURE 2

DRAWING TITLE:
SITE LAYOUT PLAN

PROJECT NO.:
12977

DATE:
12/22

DRAWN:
PJ

REVISION:
00

GROUND AND ENVIRONMENTAL
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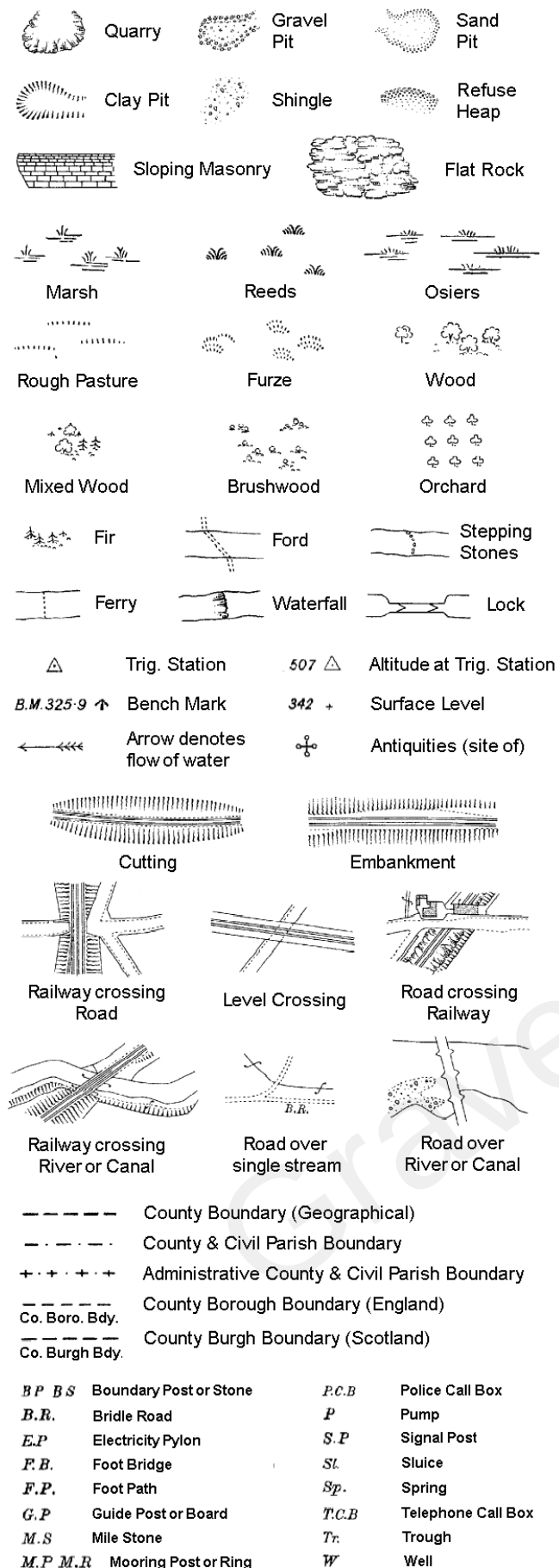




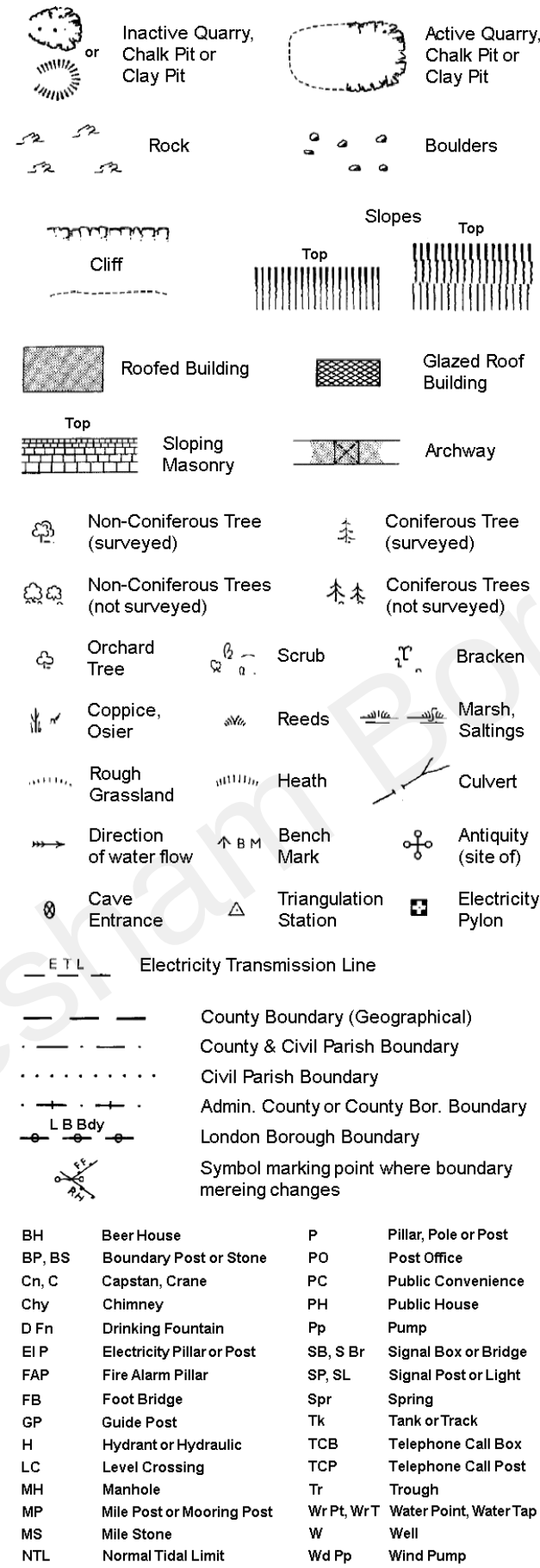
APPENDIX 1
HISTORICAL MAPS

Historical Mapping Legends

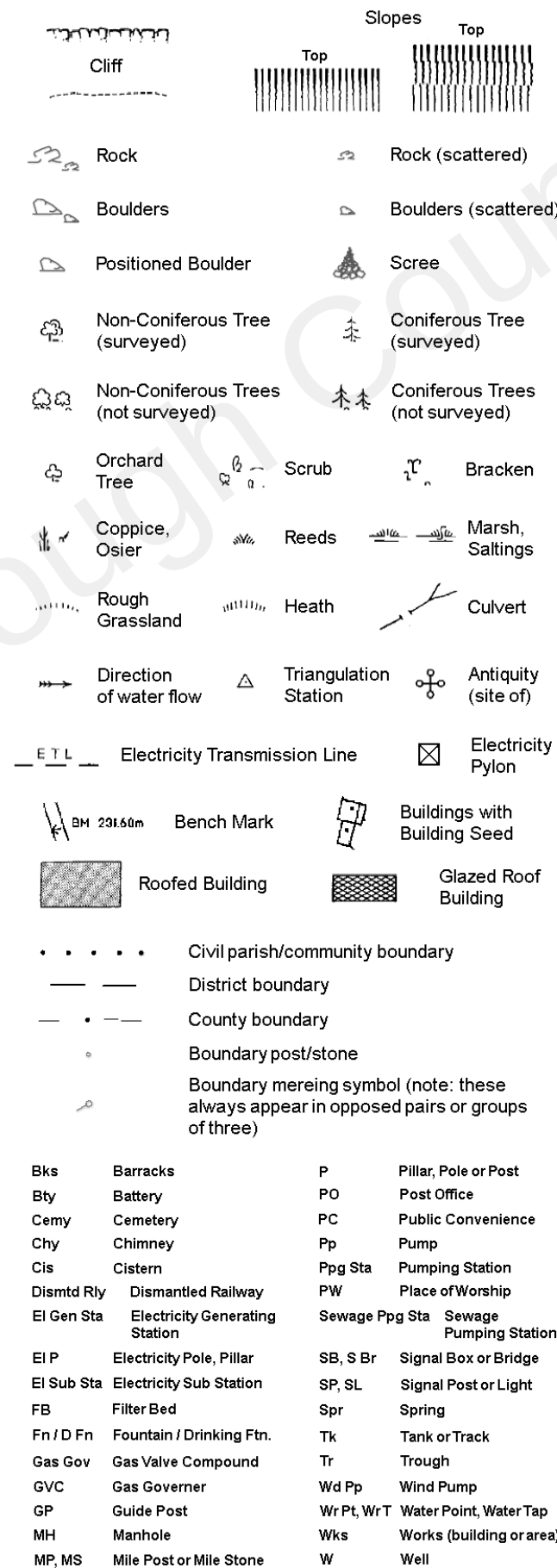
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



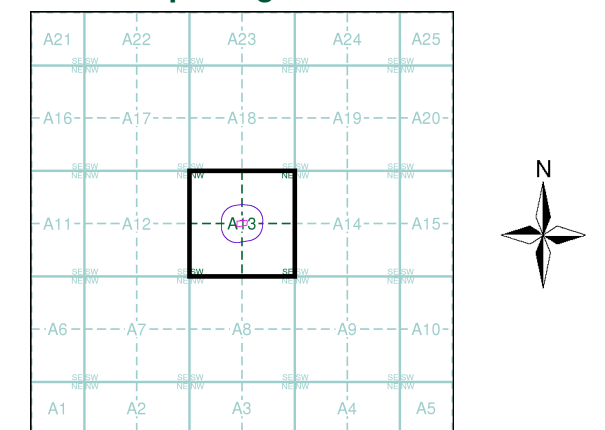
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1874 - 1885	2
Kent	1:2,500	1896	3
Kent	1:2,500	1908 - 1909	4
Kent	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961 - 1962	6
Ordnance Survey Plan	1:2,500	1966 - 1974	7
Additional SIMs	1:2,500	1974	8
Ordnance Survey Plan	1:2,500	1976	9
Additional SIMs	1:2,500	1985	10
Large-Scale National Grid Data	1:2,500	1992	11

Historical Map - Segment A13



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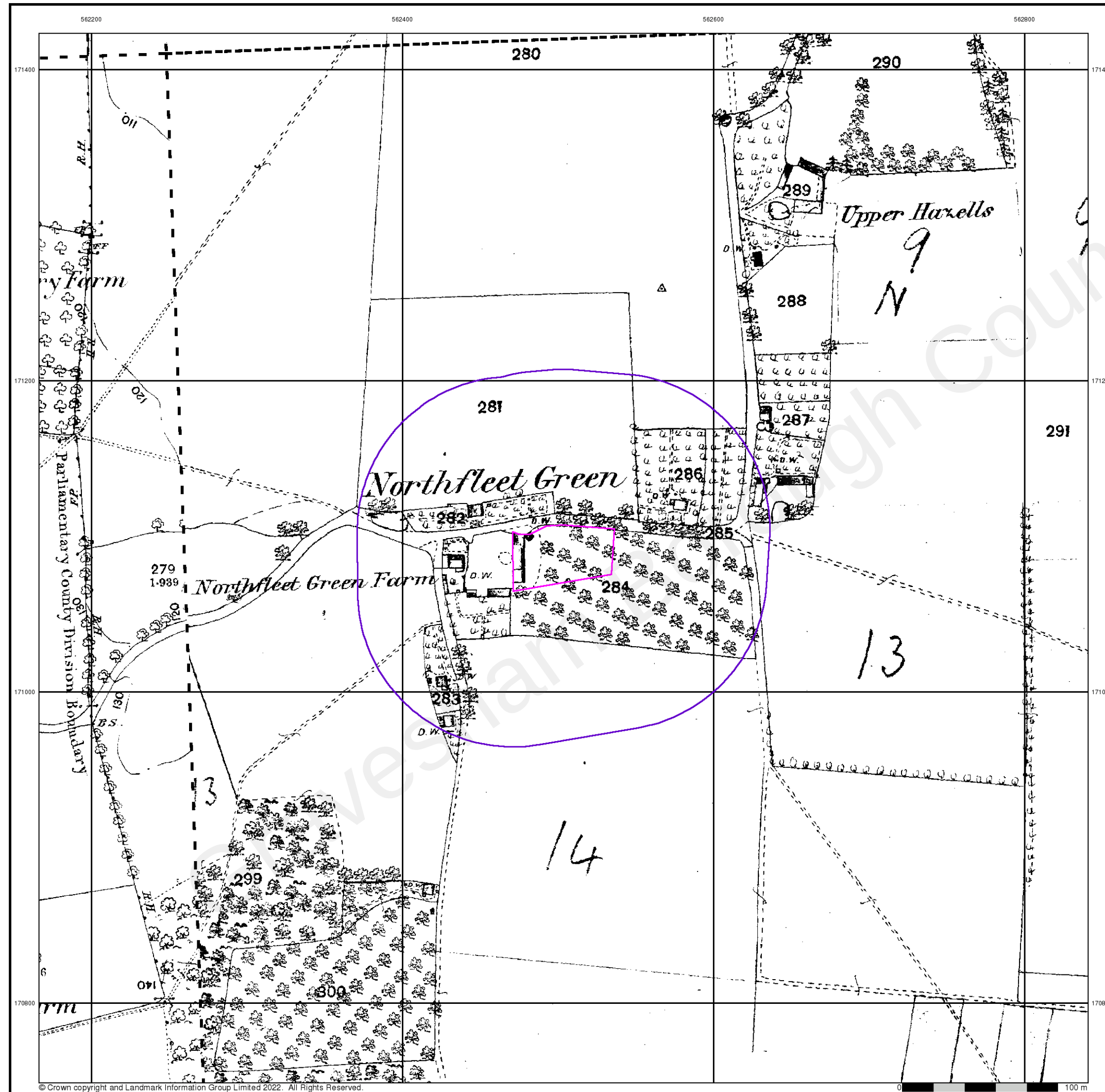
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Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

Site Details

Barn at Northfleet Green Road, Gravesend, DA13 9PT



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Kent

Published 1874 - 1885

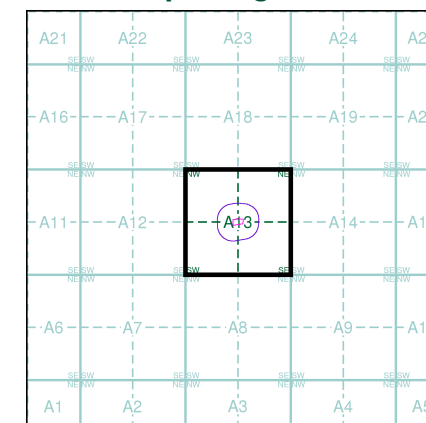
Source map scale - 1:2,500

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)

010_09 1882 1:2,500	010_10 1882 1:2,500
010_13 1885 1:2,500	010_14 1874 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 304844313_1_1
Customer Ref: 12977
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Slice: A
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Site Details

Barn at Northfleet Green Road, Gravesend, DA13 9PT

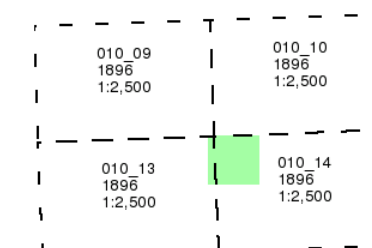
Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

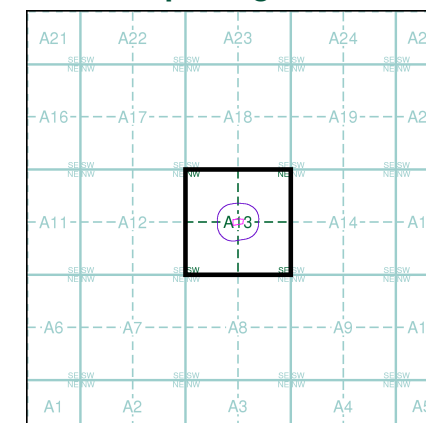


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Historical Map - Segment A13



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Search Buffer (m): 100

Site Details

Barn at Northfleet Green Road, Gravesend, DA13 9PT

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Kent

Published 1908 - 1909

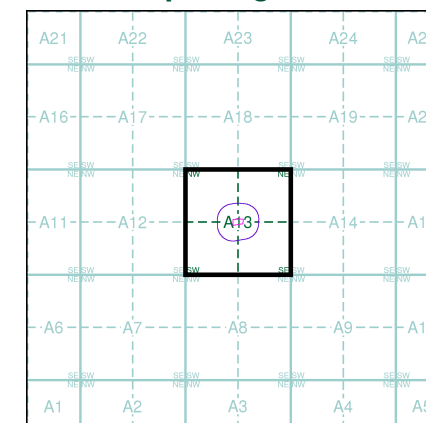
Source map scale - 1:2,500

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Map Name(s) and Date(s)

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010_13 1909 1:2,500	010_14 1908 1:2,500

Historical Map - Segment A13



Order Details

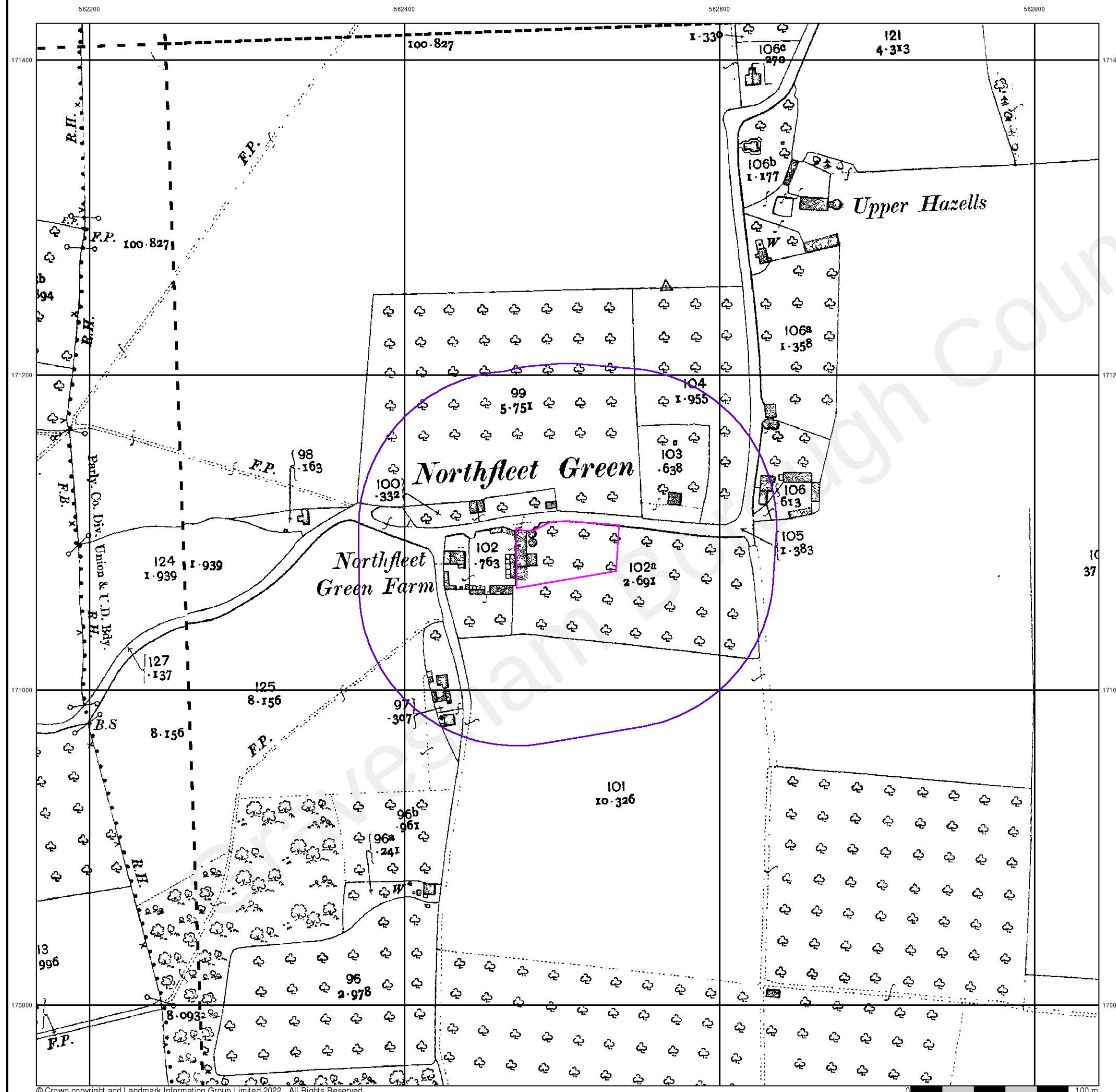
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National Grid Reference: 562500, 171090
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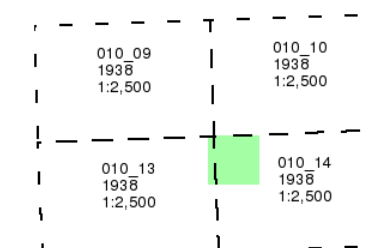
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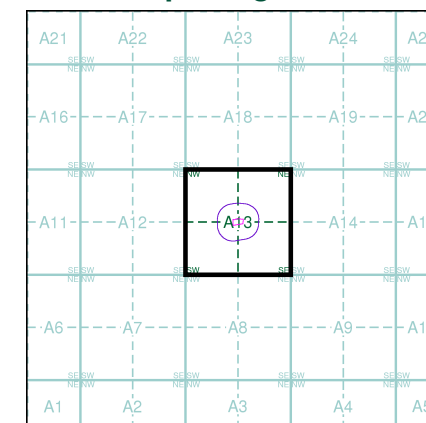


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Map Name(s) and Date(s)



Historical Map - Segment A13



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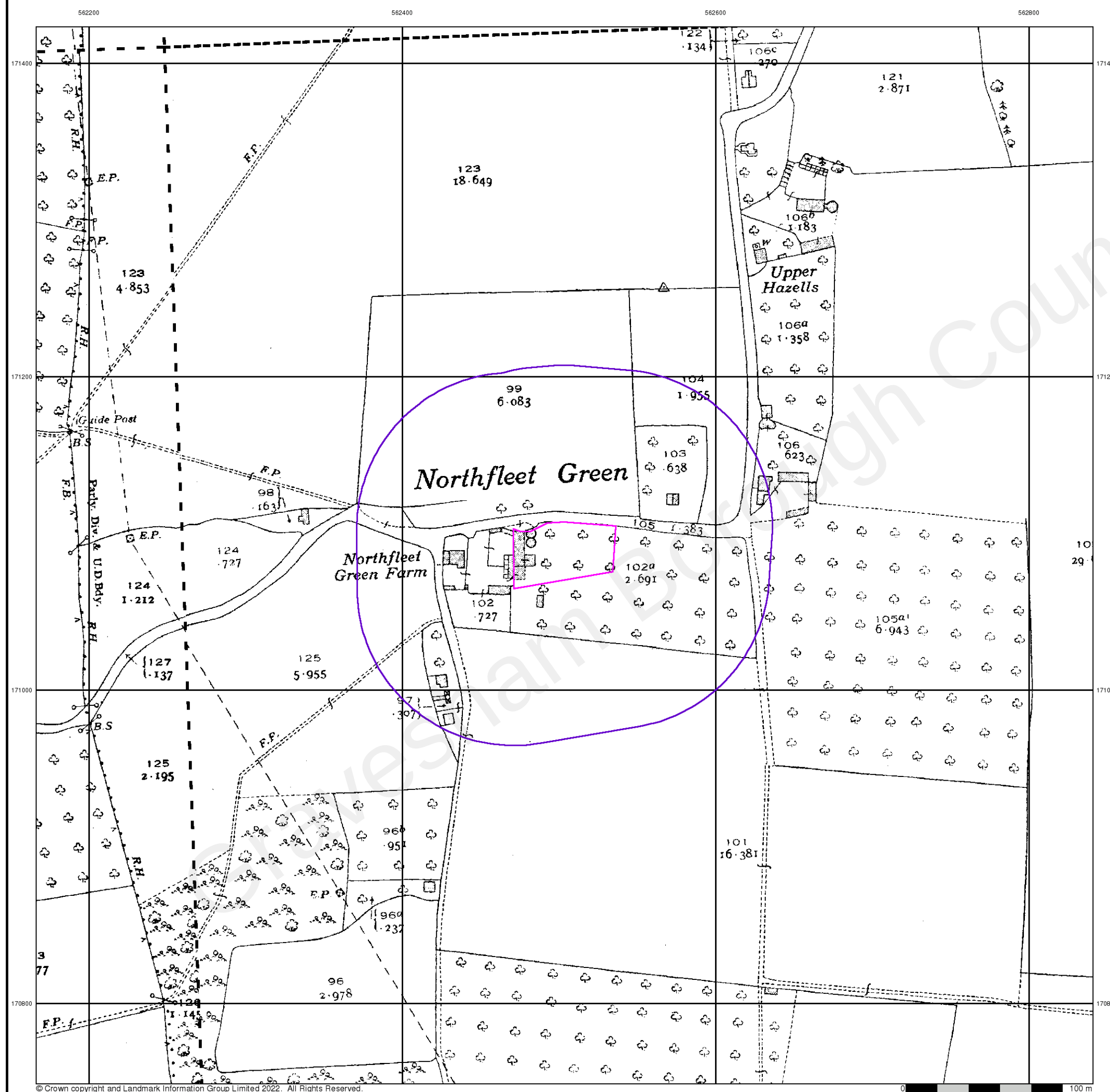
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Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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Ordnance Survey Plan

Published 1961 - 1962

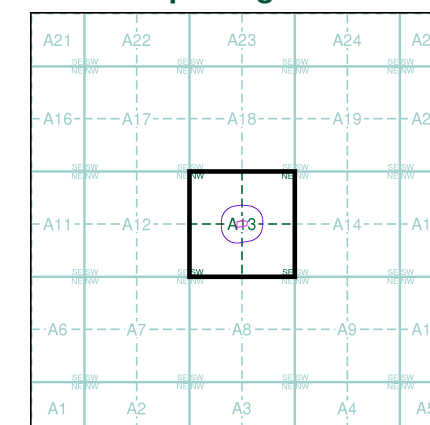
Source map scale - 1:2,500

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)

TQ6271
1962
1:2,500
TQ6270
1961
1:2,500

Historical Map - Segment A13



Order Details

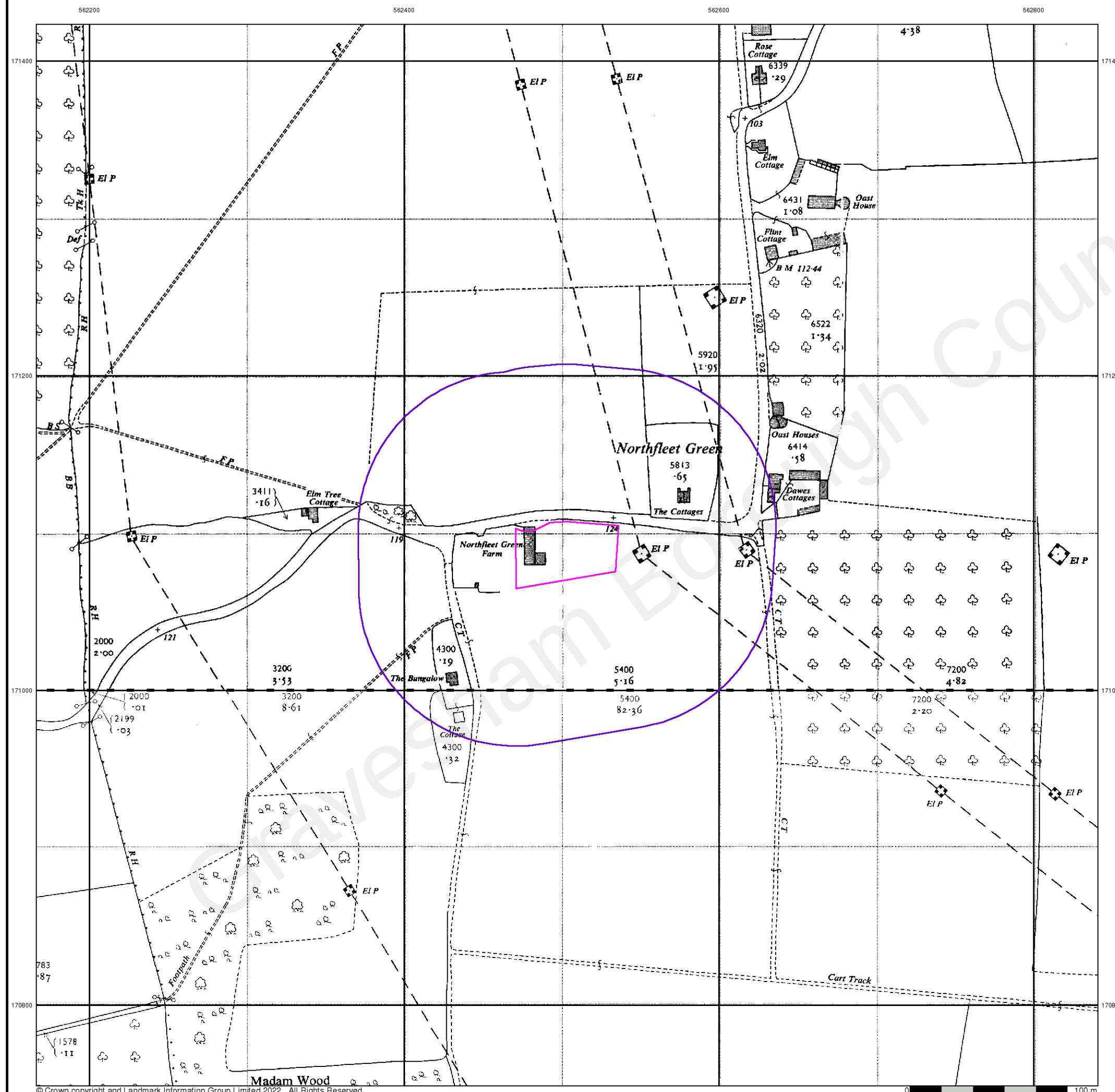
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Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

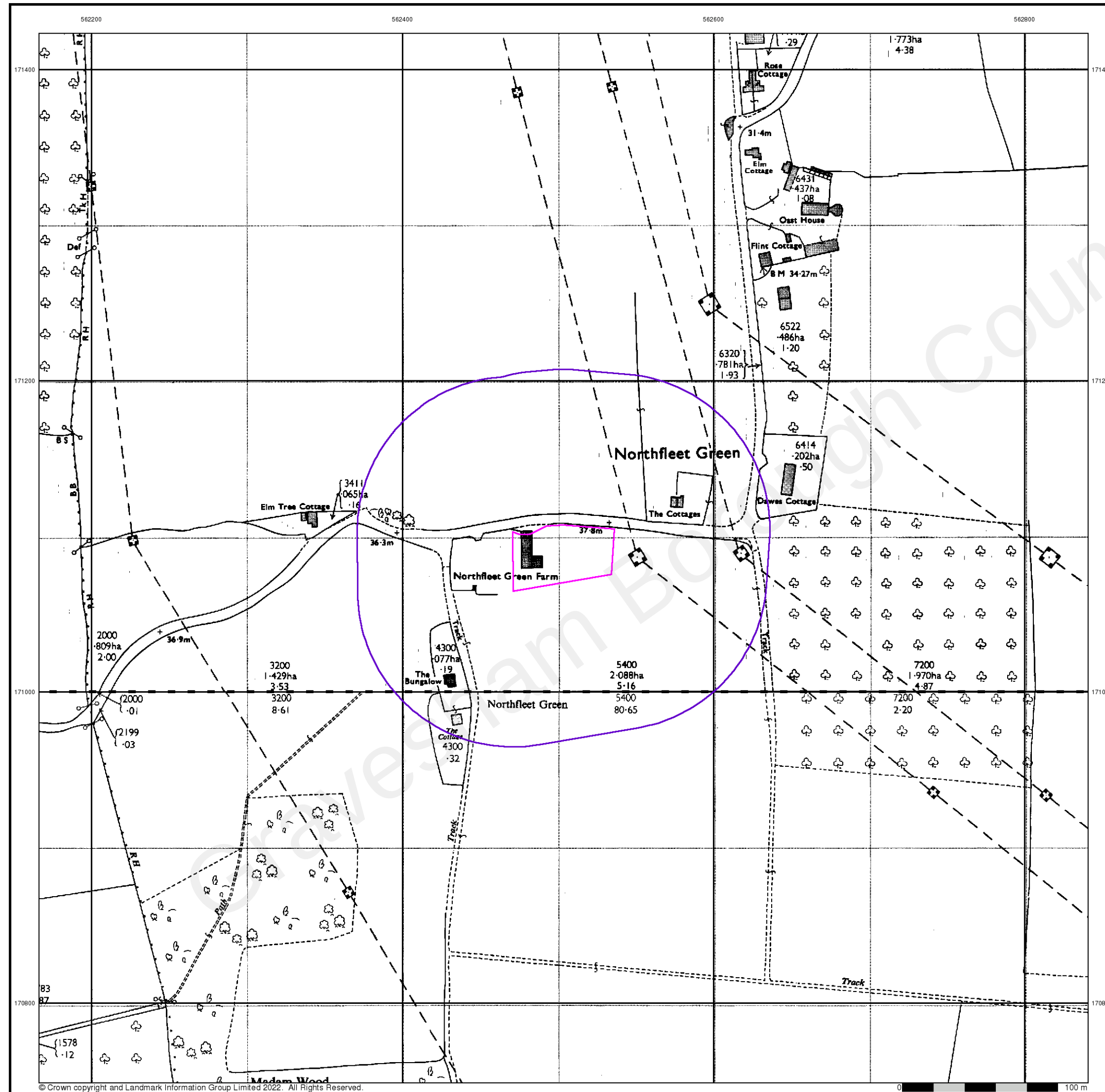
Site Details

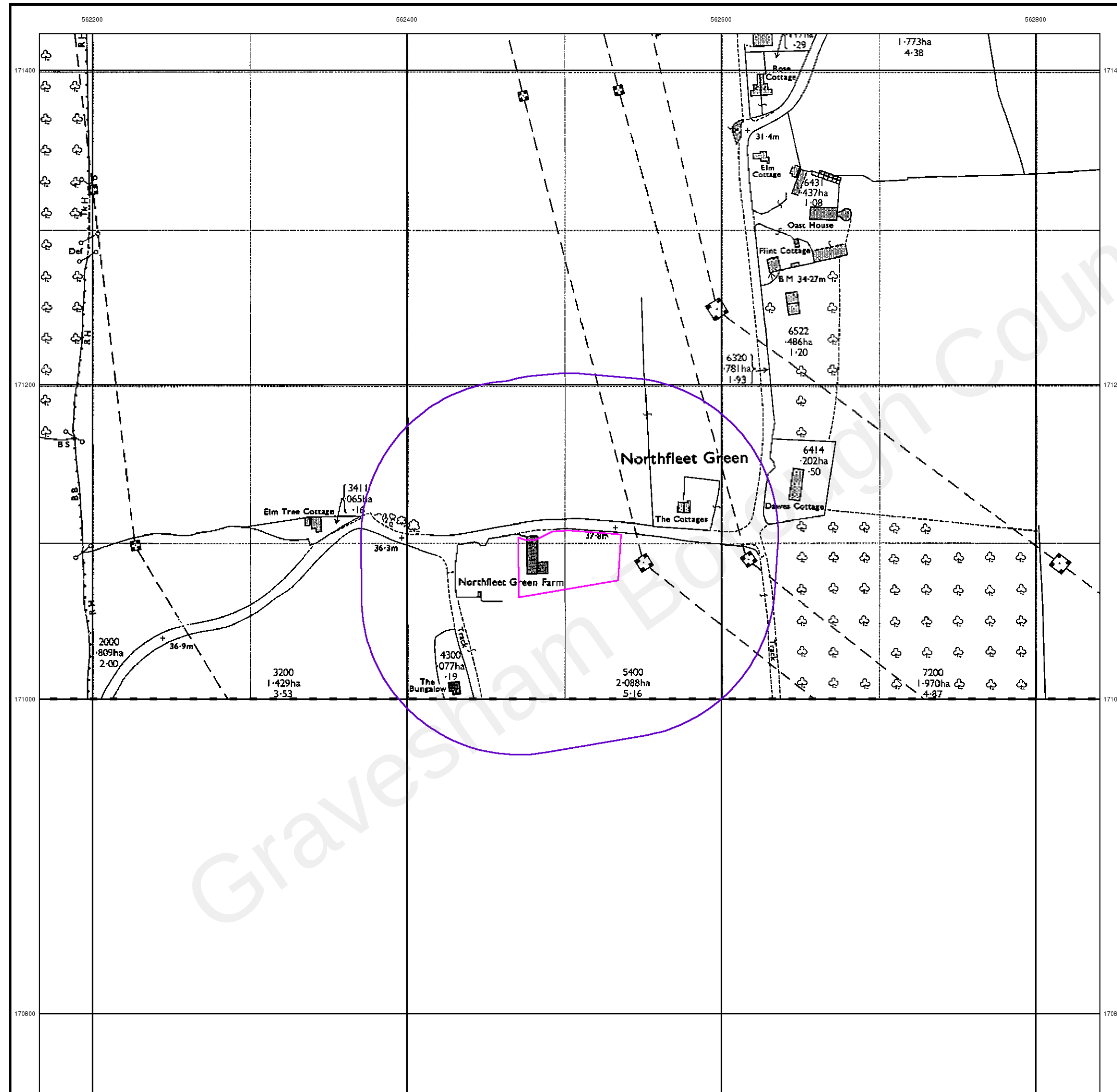
Barn at Northfleet Green Road, Gravesend, DA13 9PT

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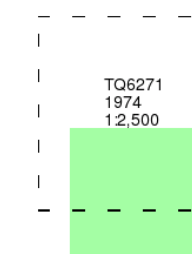
Additional SIMs

Published 1974

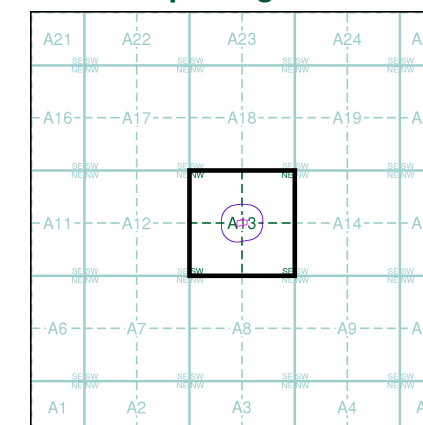
Source map scale - 1:2,500

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

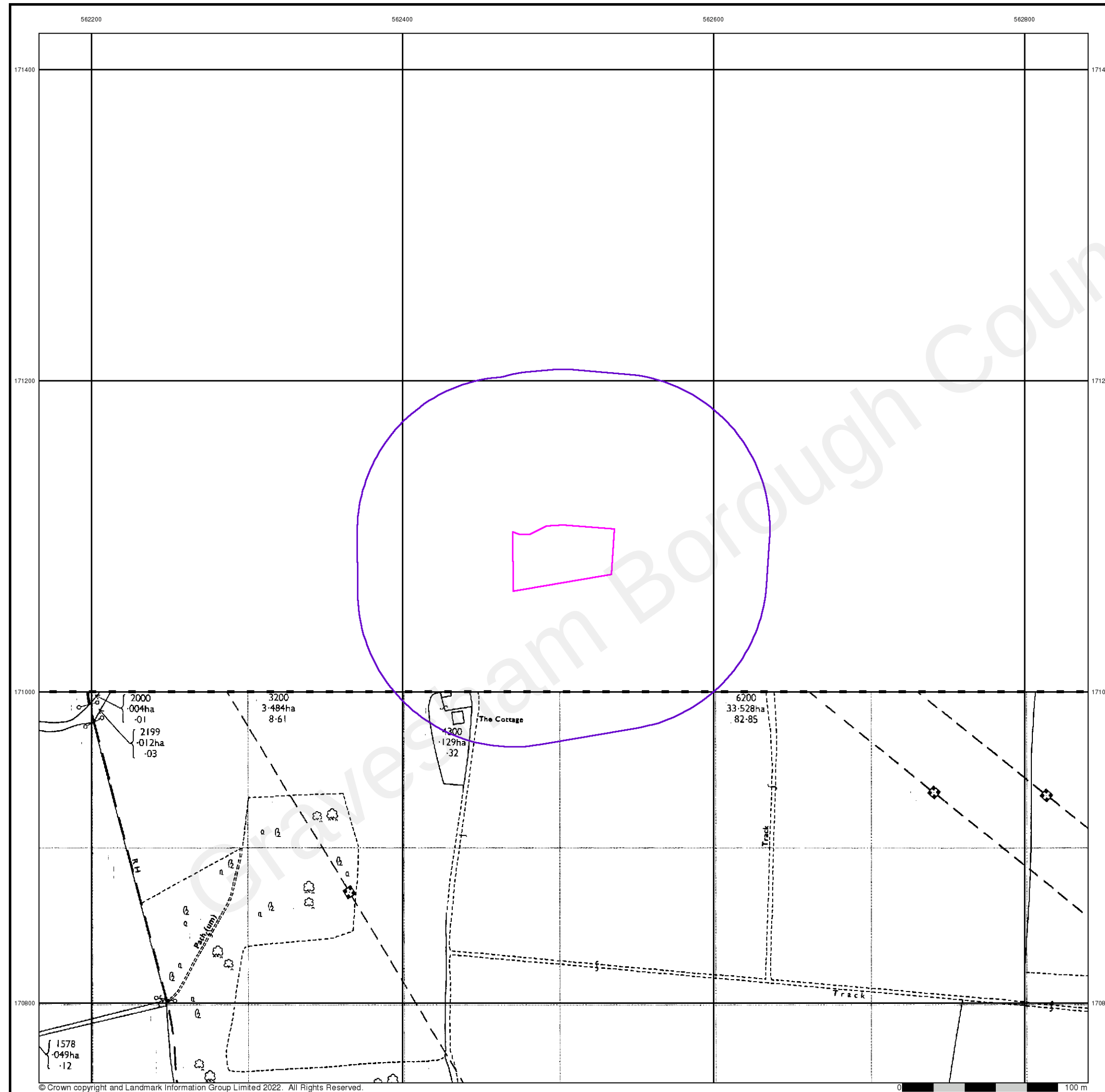
Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

Site Details

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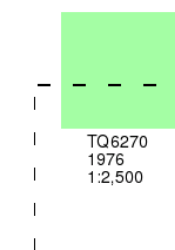
Ordnance Survey Plan

Published 1976

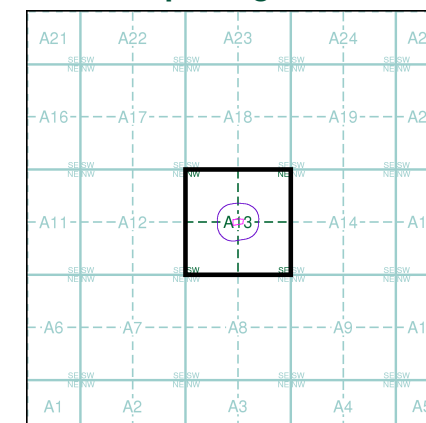
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

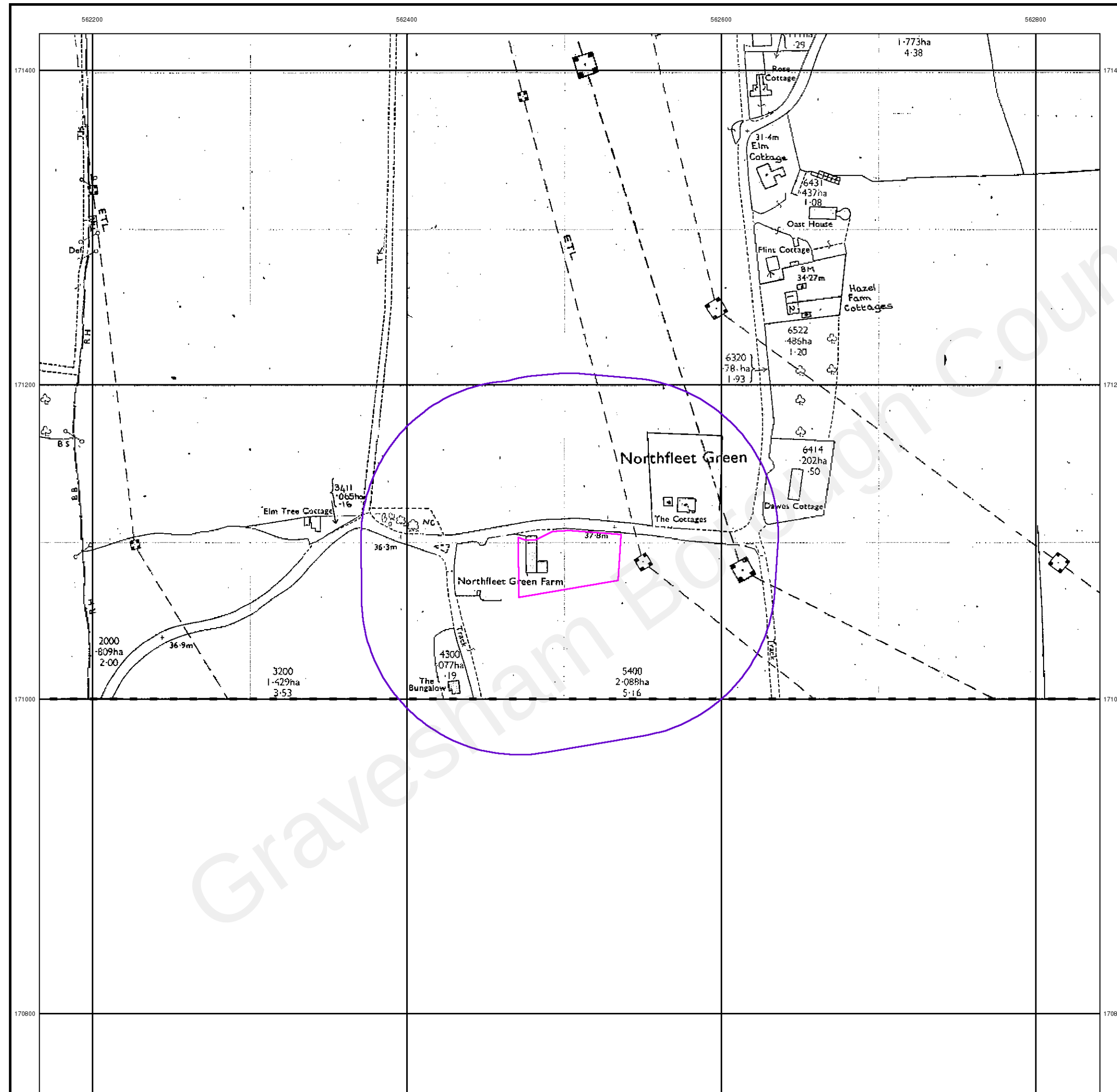
Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

Site Details

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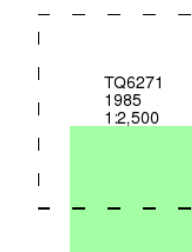
Additional SIMs

Published 1985

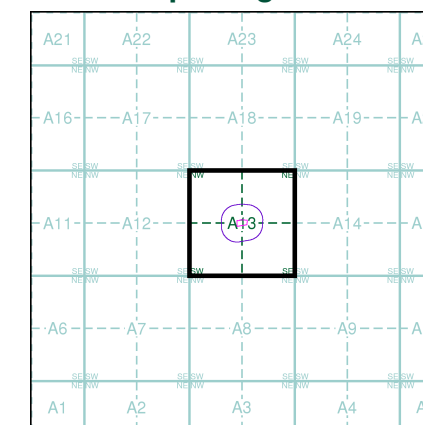
Source map scale - 1:2,500

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: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1992

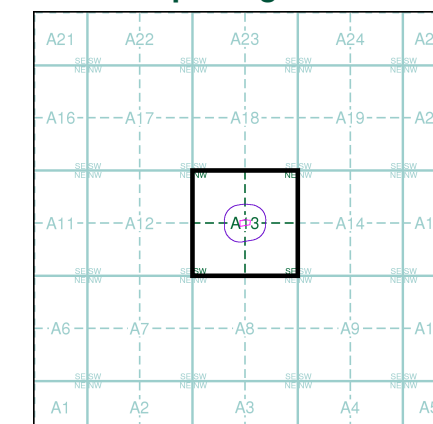
Source map scale - 1:2,500

'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)

TQ6271	1992	1:2,500
TQ6270	1992	1:2,500

Historical Map - Segment A13



Order Details

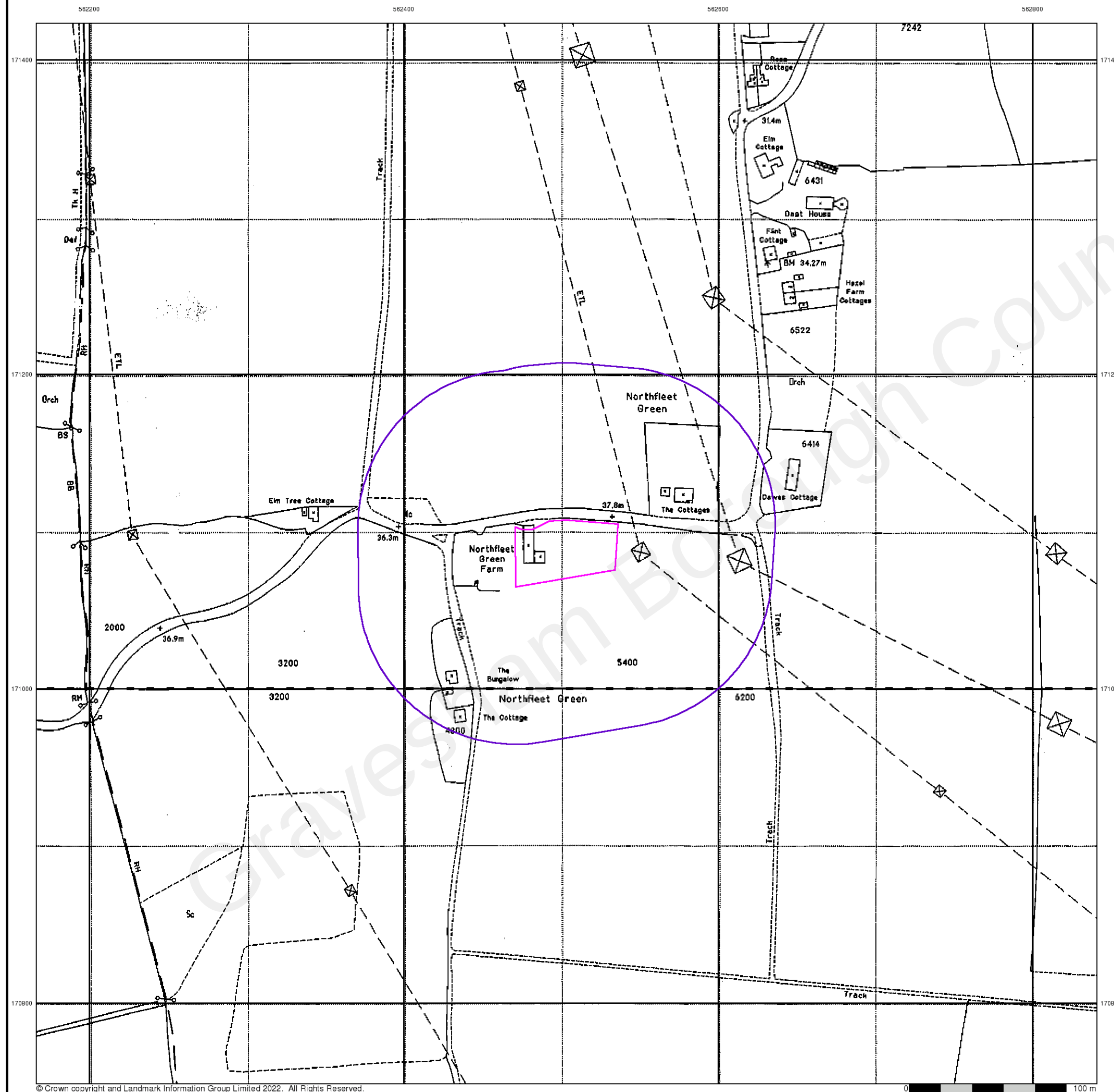
Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 100

Site Details

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10k Raster Mapping

Published 1999

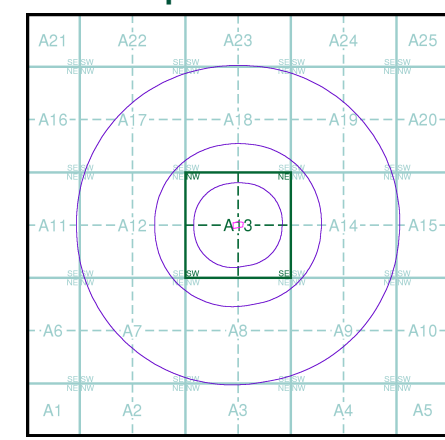
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

TQ67SW	1999
1:10,000	
TQ66NW	1999
1:10,000	

Historical Map - Slice A



Order Details

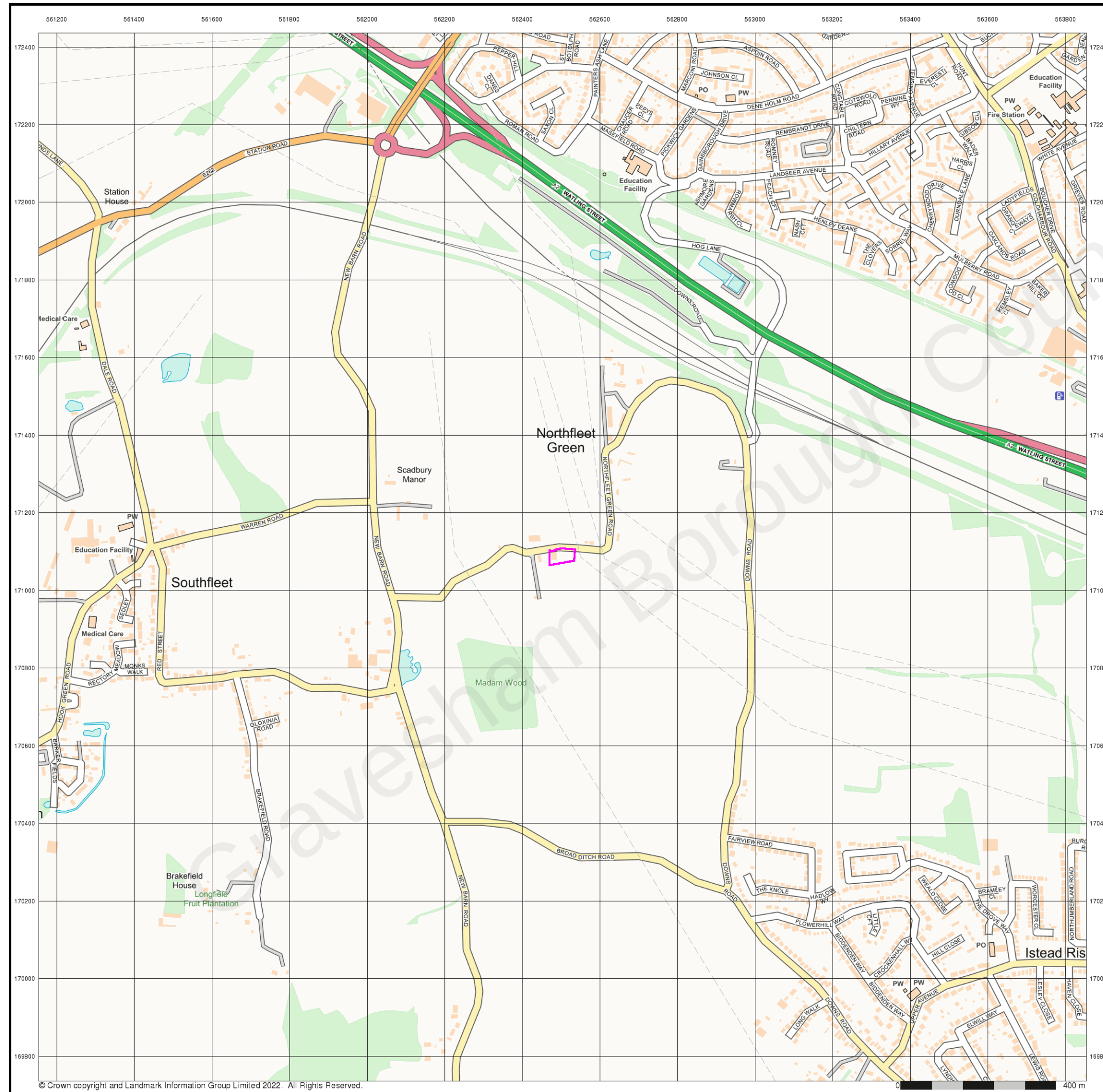
Order Number:	304844313_1_1
Customer Ref:	12977
National Grid Reference:	562500, 171090
Slice:	A
Site Area (Ha):	0.23
Search Buffer (m):	1000

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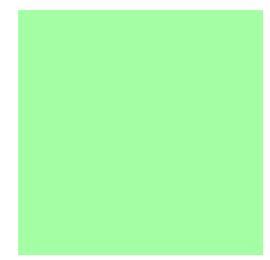
Street View

Published 2022

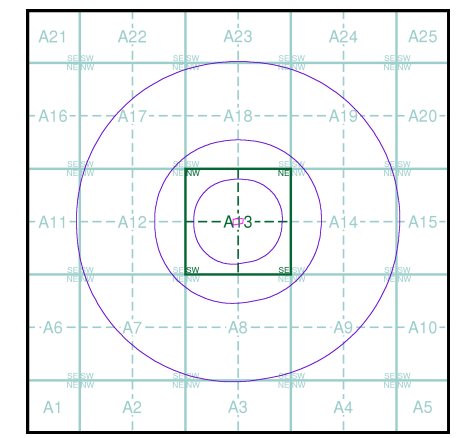
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Barn at Northfleet Green Road, Gravesend, DA13 9PT



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APPENDIX 2
ENVIROCHECK REPORT



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

304844313_1_1

Customer Reference:

12977

National Grid Reference:

562500, 171090

Slice:

A

Site Area (Ha):

0.23

Search Buffer (m):

1000

Site Details:

Barn at Northfleet Green Road

Gravesend

DA13 9PT

Client Details:

Mr P Johnson

Ground & Environmental Services Ltd

Unit 2, Montpelier Business Park

Dencora Way

Ashford

Kent

TN23 4FG



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	13
Industrial Land Use	17
Sensitive Land Use	18
Data Currency	19
Data Suppliers	24
Useful Contacts	25

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes			n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters	pg 1			1	
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1			3	(*36)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 11	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 11	3			
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 11				1



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 13	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 13			1	9
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 15			1	2
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 15	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 15	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 15	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 15		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 17		1		3
Fuel Station Entries					
Gas Pipelines	pg 17			1	1
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 18	1		1	
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 18	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	0	1	562502 171087
	Nearest Surface Water Feature	A13NW (W)	64	-	562408 171109
1	Pollution Incidents to Controlled Waters Property Type: Arable Location: New Barn Road, Pond By Side Of Road, LONGFIELD Authority: Environment Agency, Southern Region Pollutant: Crude Sewage Note: Sewer Overflow; Due To Blockage; Flowing Into Pond Incident Date: 31st July 1998 Incident Reference: 197266 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leaking Underground Pipe Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	398	2	562130 170860
2	Water Abstractions Operator: Southern Water Services Ltd Licence Number: 01/026 Permit Version: Not Supplied Location: Hazells Ps, SOUTHFLEET Authority: Environment Agency, Southern Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 9000 Yearly Rate (m3): 3294000 Details: H5 Chalk; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	413	2	562900 171300
2	Water Abstractions Operator: Southern Water Services Ltd Licence Number: 1/0511/F/G Permit Version: Not Supplied Location: Hazells Pumping Station Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 9000 Yearly Rate (m3): 3294000 Details: Additional Purpose: Public Water Supply Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	415	2	562905 171295
3	Water Abstractions Operator: Southern Water Services Ltd Licence Number: 9/40/01/0511/G Permit Version: 100 Location: Boreholes, Wells And Adits At Hazells Ps, Northfleet Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	476	2	562950 171340



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 102 Location: Borehole At Court Lodge Farm Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 8th December 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1278	2	561241 171449
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 102 Location: Borehole At Court Lodge Farm Authority: Environment Agency, Southern Region Abstraction: Agricultural Vegetable Wash Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th December 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1278	2	561241 171449
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 102 Location: Borehole At Court Lodge Farm Authority: Environment Agency, Southern Region Abstraction: Trickle Irrigation Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 8th December 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1278	2	561241 171449
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 101 Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 19th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1288	2	561240 171480



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 101 Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: Agricultural Vegetable Wash Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1288	2	561240 171480
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 100 Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: Agricultural Vegetable Wash Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1288	2	561240 171480
	Water Abstractions Operator: D & M Gedney Ltd Licence Number: 9/40/01/0500/G Permit Version: 100 Location: Point A, Borehole, Nr. Court Lodge Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 23rd November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1288	2	561240 171480
	Water Abstractions Operator: Skanska Civil Engineering Licence Number: 01/164 Permit Version: 1 Location: Tollgate Junction Authority: Environment Agency, Southern Region Abstraction: Extractive: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1372	2	563900 171250



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Watts Farms Fresh Produce Holdings Limited Licence Number: 9/40/01/0518/G Permit Version: 103 Location: Point A, Borehole At Hook Place Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 30 November Permit Start Date: 15th November 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1435	2	561180 170440
	Water Abstractions Operator: Sandfields Farms Limited Licence Number: 9/40/01/0518/G Permit Version: 102 Location: Point A, Borehole At Hook Place Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 30 November Permit Start Date: 19th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1435	2	561180 170440
	Water Abstractions Operator: Mr D W Langmead Licence Number: 9/40/01/0518/G Permit Version: 101 Location: Point A, Borehole At Hook Place Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 30 November Permit Start Date: 29th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1435	2	561180 170440
	Water Abstractions Operator: Jj Barker Ltd Licence Number: 9/40/01/0518/G Permit Version: 100 Location: Point A, Borehole At Hook Place Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 30 November Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	1435	2	561180 170440



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 101 Location: Point C, Borehole, Joyce Hall Farm In Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1468	2	561310 172000
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 100 Location: Point C, Borehole, Joyce Hall Farm In Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 12th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1468	2	561310 172000
	Water Abstractions Operator: John Arthur Beslee & Penelope Gaye Beslee Licence Number: 1/0523/A/G Permit Version: Not Supplied Location: SOUTHFLEET Authority: Environment Agency, Southern Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 900 Yearly Rate (m3): 36360 Details: Additional Purpose: Spray Irrigation Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NE (NW)	1475	2	561320 172025
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 101 Location: Point B, Borehole At Hook Green Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	1751	2	560840 170430



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 100 Location: Point B, Borehole At Hook Green Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 12th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	1751	2	560840 170430
	Water Abstractions Operator: D.T.G. Elliott & Son Ltd. Licence Number: 9/40/01/0504/G Permit Version: 100 Location: Point A, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1792	2	561700 172720
	Water Abstractions Operator: D.T.G. Elliott & Son Ltd. Licence Number: 9/40/01/0504/G Permit Version: 100 Location: Point A, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 455 Yearly Rate (m3): 4137 Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1792	2	561700 172720
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 100 Location: Point B, Borehole At Hook Green Farm, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 12th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1799	2	560800 170400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G/R01 Permit Version: 1 Location: Point A, Borehole, H5 Chalk, Southfleet Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Springhead Nurseries, Gravesend Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1801	2	561660 172710
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G/R01 Permit Version: 1 Location: Point A, Borehole, H5 Chalk, Southfleet Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Springhead Nurseries, Gravesend Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1801	2	561660 172710
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G Permit Version: 101 Location: Point A, Borehole, H5 Chalk, Southfleet Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1801	2	561660 172710
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G Permit Version: 101 Location: Point A, Borehole, H5 Chalk, Southfleet Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1801	2	561660 172710



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D T G Elliot & Son Ltd Licence Number: 1/0504/A/G Permit Version: Not Supplied Location: Springhead Nurseries, SOUTHFLEET Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 455 Yearly Rate (m3): 4137 Details: Additional Purpose: Spray Irrigation Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NW (NW)	1839	2	561685 172765
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G Permit Version: 101 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1890	2	561660 172810
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G Permit Version: 101 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1890	2	561660 172810
	Water Abstractions Operator: D.T.G. Elliott & Son Ltd. Licence Number: 9/40/01/0504/G Permit Version: 100 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 455 Yearly Rate (m3): 4136.9 Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1890	2	561660 172810



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D.T.G. Elliott & Son Ltd. Licence Number: 9/40/01/0504/G Permit Version: 100 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Outlined Red On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1890	2	561660 172810
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G/R01 Permit Version: 1 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Springhead Nurseries, Gravesend Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1891	2	561660 172811
	Water Abstractions Operator: D T G Elliott & Son Ltd Licence Number: 9/40/01/0504/G/R01 Permit Version: 1 Location: Point B, Borehole, H5 Chalk, Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Springhead Nurseries, Gravesend Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1891	2	561660 172811
	Water Abstractions Operator: Mid Kent Golf Club Limited Licence Number: So/040/0001/019 Permit Version: 1 Location: Mid Kent Golf Club Borehole Authority: Environment Agency, Southern Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Mid Kent Golf Course, Gravesend Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1946	2	564325 171869



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: John Arthur Beslee & Penelope Gaye Beslee Licence Number: 1/0523/B/G Permit Version: Not Supplied Location: SOUTHFLEET Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 682 Yearly Rate (m3): 27270 Details: Additional Purpose: Spray Irrigation Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1971	2	561920 172995
	Water Abstractions Operator: Ebbsfleet Investment (Gp) Limited Licence Number: 01/0157 Permit Version: 2 Location: Point A, Wingfield Park Farm In Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldy Out Lined On Licence Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 18th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1982	2	561900 173000
	Water Abstractions Operator: Land Securities Trading Ltd Licence Number: 01/0157 Permit Version: 1 Location: Point A, Wingfield Park Farm In Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldy Out Lined On Licence Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 17th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1982	2	561900 173000
	Water Abstractions Operator: Beslee Farms Licence Number: 9/40/01/0523/G Permit Version: 100 Location: Point A, Wingfield Park Farm In Southfleet. Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Licence Map. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 12th March 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1982	2	561900 173000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (N)	0	3	562502 171087
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13NW (N)	0	3	562502 171087
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	3	562502 171087
	Superficial Aquifer Designations No Data Available				
4	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13NW (N)	0	2	562502 171087
5	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NW (N)	0	2	562502 171087
6	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13NW (N)	0	2	562502 171087
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 230.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NW (N)	863	4	562301 171948



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Gravesham Borough Council - Has no landfill data to supply		0	5	562502 171087
	Local Authority Landfill Coverage Name: Kent County Council - Had landfill data but passed it to the relevant environment agency		0	6	562502 171087
	Local Authority Landfill Coverage Name: Dartford Borough Council - Has no landfill data to supply		278	7	562193 171069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thanet Sand Formation	A13NW (N)	0	1	562502 171087
8	BGS Recorded Mineral Sites Site Name: Northfleet Green Road Denehole Location: Northfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220939 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	353	1	562815 171320
9	BGS Recorded Mineral Sites Site Name: Northfleet Green Chalk Pit Location: Southfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131065 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	520	1	562977 170804
10	BGS Recorded Mineral Sites Site Name: Northfleet Green Denehole Location: Northfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220941 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SW (N)	583	1	562498 171690
11	BGS Recorded Mineral Sites Site Name: New Barn Road Denehole Location: Redstreet, Southfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220938 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	666	1	562143 170486
12	BGS Recorded Mineral Sites Site Name: Istead Rise Chalkwell Location: Southfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220328 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SE (E)	767	1	563280 170900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	BGS Recorded Mineral Sites Site Name: Stanhill Farm Denehole Location: Southfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220783 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	783	1	562640 170300
14	BGS Recorded Mineral Sites Site Name: Warren Road Denehole Location: Northfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220782 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	847	1	561800 171620
15	BGS Recorded Mineral Sites Site Name: Downs Hill Chalk Pit Location: Southfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131069 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	971	1	562521 170095
16	BGS Recorded Mineral Sites Site Name: New House Denehole Location: New House, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220377 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	990	1	562997 171980
17	BGS Recorded Mineral Sites Site Name: Pepper Hill Chalk Pit Location: Northfleet, Gravesend, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131062 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18NW (N)	991	1	562443 172096
	Coal Mining Affected Areas In an area that might not be affected by coal mining				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 562900 Northing: 171300 Distance: 413 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: NE Cavity Type: Chalkwell/Denehole Commodity: Chalk Solid Geology Detail: Thanet Sand Formation, Chalk Group Superficial Geology No Details Detail:	A14NW (NE)	413	8	562900 171300
	Man-Made Mining Cavities Easting: 562600 Northing: 170300 Distance: 776 Quadrant Reference: A8 Quadrant Reference: SE Bearing Ref: S Cavity Type: Denehole:- vertical shaft having chambers at the base Commodity: Chalk Solid Geology Detail: Thanet Sand Formation, Chalk Group Superficial Geology No Details Detail:	A8SE (S)	776	8	562600 170300
	Man-Made Mining Cavities Easting: 563300 Northing: 170900 Distance: 786 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A14SE (E)	786	8	563300 170900
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	164	1	562585 170920
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	164	1	562585 170920
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	159	1	562323 171161
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	164	1	562585 170920
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	159	1	562323 171161
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	562502 171087



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Contemporary Trade Directory Entries Name: Ultimate Industrial Cleaning Location: Dawes Cottage, Northfleet Green, Gravesend, Kent, DA13 9PN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	116	-	562647 171137
19	Contemporary Trade Directory Entries Name: Southfleet Oils Location: Chapter Farm, Red Street, Southfleet, Gravesend, DA13 9QH Classification: Oil Fuel Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	829	-	561677 170827
19	Contemporary Trade Directory Entries Name: Quest Engines 2000 Location: Chapter Farm, Red Street, Southfleet, Gravesend, Kent, DA13 9QH Classification: Engine Rebuilding & Reconditioning Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	829	-	561677 170827
20	Contemporary Trade Directory Entries Name: Red Street Garage Location: Red Street, Southfleet, Gravesend, Kent, DA13 9QJ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (W)	976	-	561549 170747
21	Gas Pipelines Name: SHORNE TO FARNINGHAM Nat Grid: Owned By National Grid Diameter (mm): 750 Building Proximity: Not Supplied Distance (m): Status: Active Pipe Length (m): 15540.1 Pipe Number: Not Supplied	A8NE (S)	449	9	562679 170651
22	Gas Pipelines Name: GRAVESEND THAMES SOUTH TO TATSFIELD Nat Grid: Owned By National Grid Diameter (mm): 750 Building Proximity: Not Supplied Distance (m): Status: Active Pipe Length (m): 41265.75 Pipe Number: Not Supplied	A8NE (S)	533	9	562584 170543



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Areas of Adopted Green Belt Authority: Gravesham Borough Council Plan Name: Gravesham Local Plan - Core Strategy Status: Adopted Plan Date: 30th September 2014	A13NW (N)	0	11	562502 171087
24	Areas of Adopted Green Belt Authority: Dartford Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 17th July 2017	A13SW (W)	278	12	562193 171060
25	Nitrate Vulnerable Zones Name: North Kent Description: Groundwater Source: Environment Agency, Head Office	A13NW (N)	0	3	562502 171087



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Sevenoaks District Council - Environmental Health Department Thurrock Borough Council - Environmental Health Department Dartford Borough Council - Environmental Health Department Gravesham Borough Council - Public Health Services	June 2020 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region Environment Agency - Southern Region	October 2022 October 2022	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region Environment Agency - Southern Region	January 2009 January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department Sevenoaks District Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014 September 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department Sevenoaks District Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014 September 2014	Not Applicable Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thurrock Borough Council - Environmental Health Department Gravesham Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Dartford Borough Council - Environmental Health Department Sevenoaks District Council - Environmental Health Department	February 2015 October 2014 October 2014 September 2014 September 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters Environment Agency - Southern Region Environment Agency - Anglian Region	December 1999 September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region Environment Agency - Southern Region	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region Environment Agency - Southern Region	March 2013 March 2013	
Registered Radioactive Substances Environment Agency - Anglian Region Environment Agency - Southern Region	June 2016 June 2016	As notified As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable



Agency & Hydrological	Version	Update Cycle
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Anglian Region Environment Agency - Southern Region	October 2022 October 2022	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region Environment Agency - Southern Region	October 2017 October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2022	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified



Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region Environment Agency - Southern Region	January 2009 January 2009	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	October 2022 October 2022 October 2022 October 2022	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Dartford Borough Council - Environmental Health Department Gravesham Borough Council Kent County Council - Waste Management Group Sevenoaks District Council Thurrock Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Dartford Borough Council - Environmental Health Department Gravesham Borough Council Kent County Council - Waste Management Group Sevenoaks District Council Thurrock Borough Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018	
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Thurrock Borough Council - Development Control Sevenoaks District Council London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council Gravesham Borough Council	December 2015 February 2016 January 2008 January 2016 January 2016 October 2015	Variable Variable Annual Rolling Update Variable Variable Variable
Planning Hazardous Substance Consents Thurrock Borough Council - Development Control Sevenoaks District Council London Port Health Authority - Environmental Services Dartford Borough Council Kent County Council Gravesham Borough Council	December 2015 February 2016 January 2008 January 2016 January 2016 October 2015	Variable Variable Annual Rolling Update Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Dartford Borough Council Gravesham Borough Council Sevenoaks District Council Thurrock Borough Council - Development Control	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Dartford Borough Council Gravesham Borough Council Sevenoaks District Council Thurrock Borough Council - Development Control	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	August 2022	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

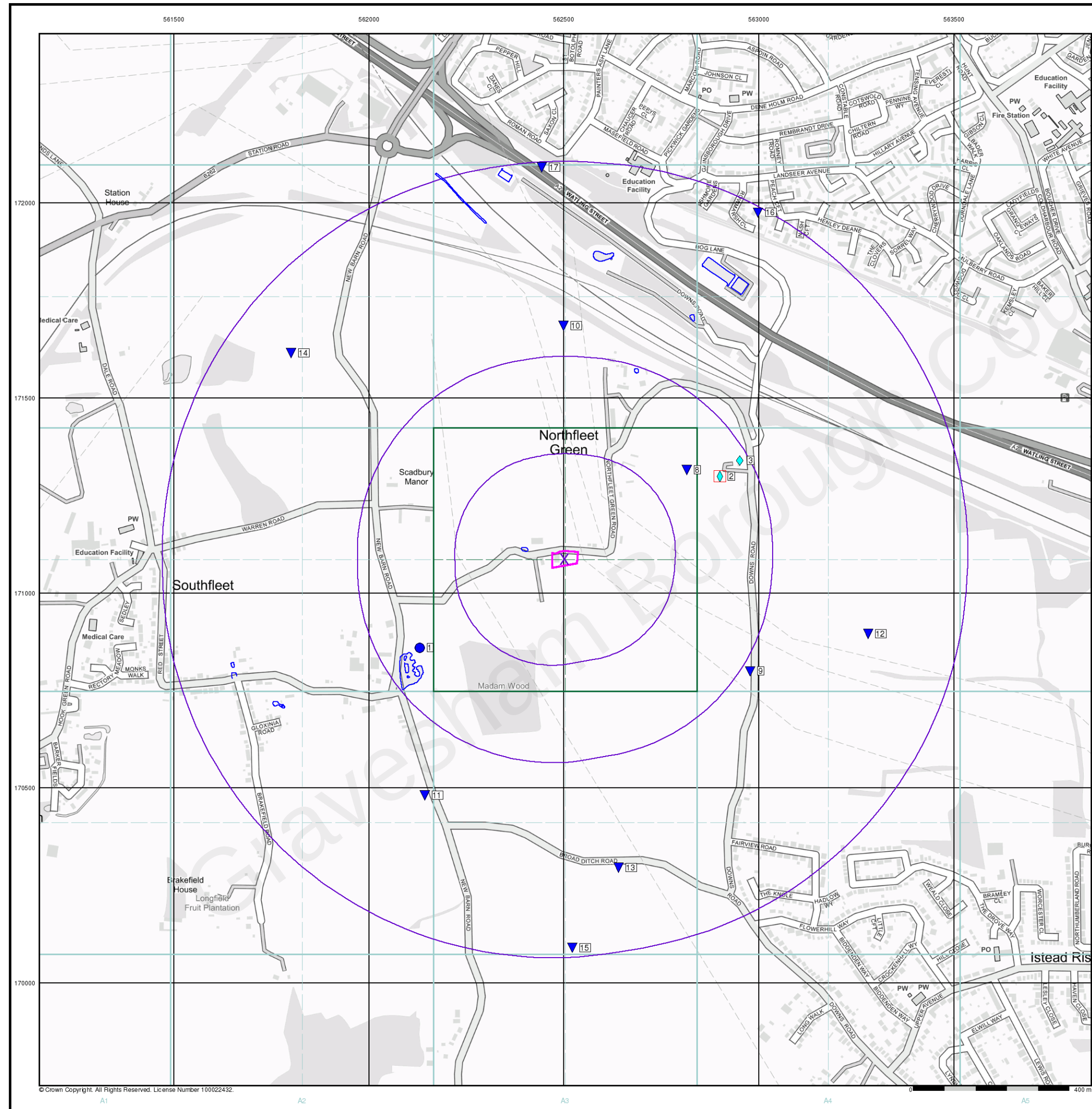
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Gravesham Borough Council Cygnet House, 132 Windmill Street, Gravesend, Kent, DA12 1AU	Telephone: 01474 564422 Fax: 01474 337546 Website: www.gravesham.gov.uk
6	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
7	Dartford Borough Council - Environmental Health Department Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR	Telephone: 01322 343233 Fax: 01322 343963 Website: www.dartford.gov.uk
8	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
9	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	Gravesham Borough Council Cygnet House, 132 Windmill Street, Gravesend, Kent, DA12 1BQ	Telephone: 01474 564422 Fax: 01474 337546 Website: www.gravesham.gov.uk
12	Dartford Borough Council Civic Centre, Home Gardens, Dartford, Kent, DA1 1DR	Telephone: 01322 343434 Fax: 01322 343047 Website: www.dartford.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

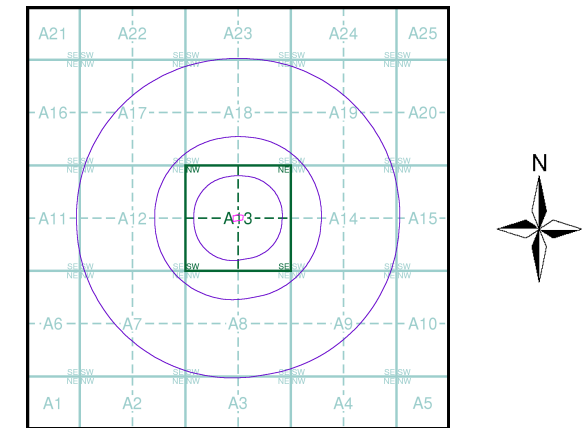


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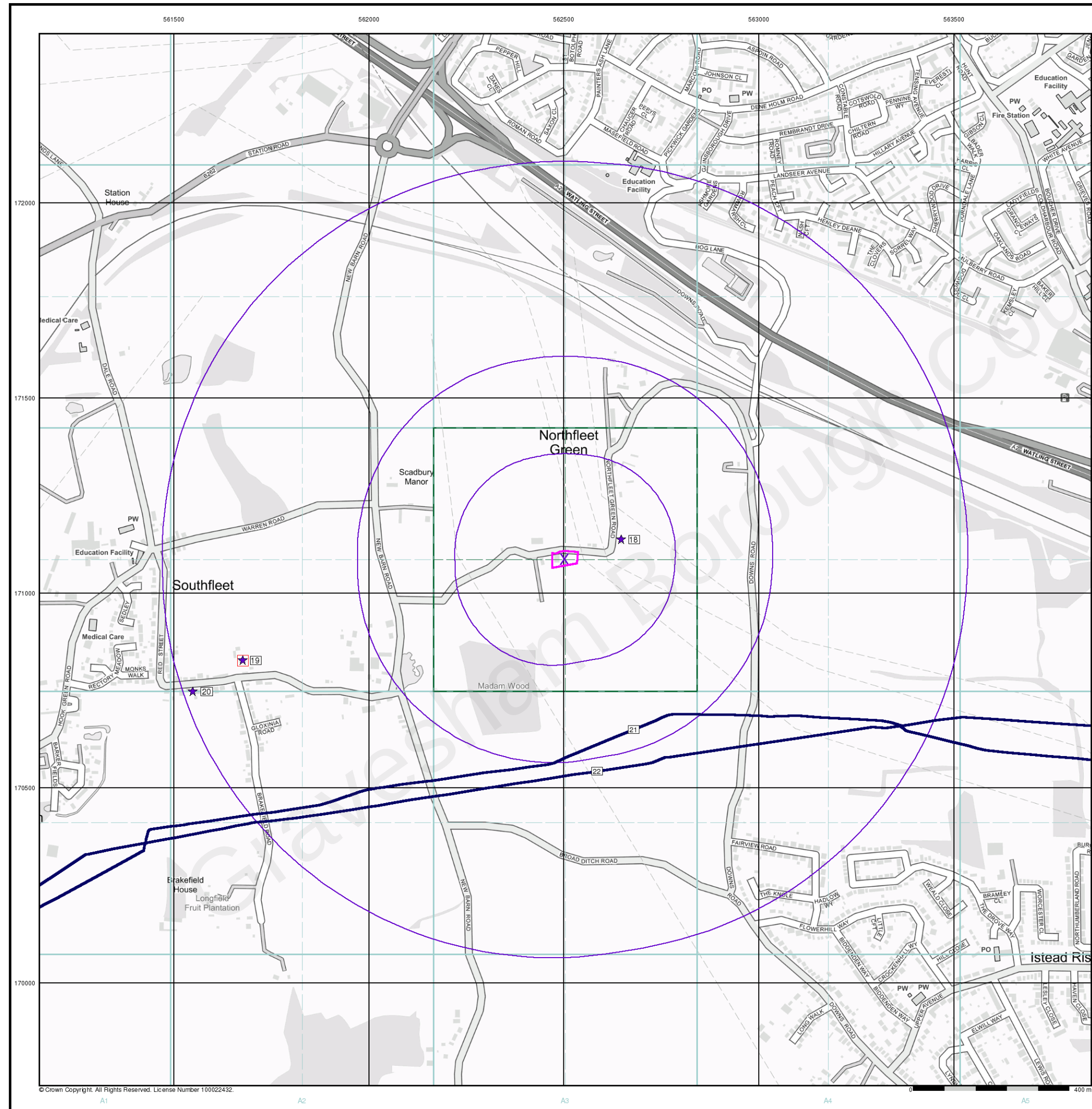
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 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
 - BGS Recorded Mineral Site
- Industrial Land Use**
 - Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details
Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details
Barn at Northfleet Green Road, Gravesend, DA13 9PT



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Industrial Land Use Map

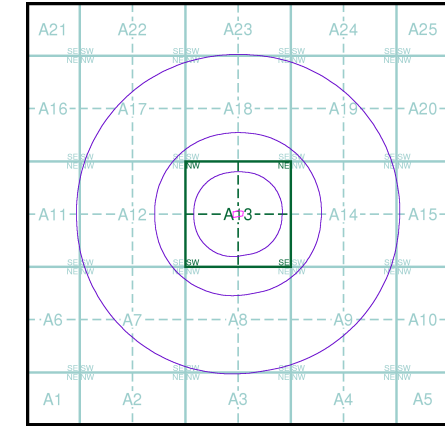
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 304844313_1_1
Customer Ref: 12977
National Grid Reference: 562500, 171090
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Barn at Northfleet Green Road, Gravesend, DA13 9PT



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



APPENDIX 3
SITE PHOTOGRAPHS

*Barn at Northfleet Green, Northfleet Road, Gravesend
Phase 1 Contamination Risk Assessment*



*Barn at Northfleet Green, Northfleet Road, Gravesend
Phase 1 Contamination Risk Assessment*



*Barn at Northfleet Green, Northfleet Road, Gravesend
Phase 1 Contamination Risk Assessment*



*Barn at Northfleet Green, Northfleet Road, Gravesend
Phase 1 Contamination Risk Assessment*

