

**PHASE I AND PHASE II GEOTECHNICAL AND
GEO-ENVIRONMENTAL INVESTIGATION**

for the

PROPOSED TEN RESIDENTIAL DWELLINGS

at

BLACKWELL FARM ROAD, EAST GRINSTEAD, RH19 3JW

on behalf of

THE GUINNESS PARTNERSHIP LIMITED

Land 
Science

Brighton | London | Bristol | Kent

0845 604 6494 | www.landscience.co.uk

The Old Police Station, Jobs Lane, Sayers Common, West Sussex, BN6 9HE

Title: PHASE I AND PHASE II GEOTECHNICAL AND GEO-ENVIRONMENTAL INVESTIGATION

Site: BLACKWELL FARM ROAD, EAST GRINSTEAD, RH19 3JW

Development: PROPOSED TEN RESIDENTIAL DWELLINGS

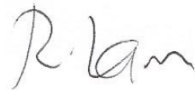
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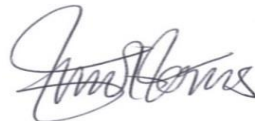
RAYMOND LAM
Civil Engineering Technician

Checked by:



MICHAEL ROSE M.Sc., B.Sc., FGS, AIEMA
Principal Geo-Environmental Consultant

Authorised by:



ELLIOT TOMS CEnv M.Sc., B.Sc. (Hons.), FGS, MIEEnvSci
Managing Director

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APPENDIX B:	Desk Study
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APPENDIX D:	Sewer Survey
APPENDIX E:	Ground gas and Groundwater Monitoring
APPENDIX F:	Geotechnical Testing Results
APPENDIX G:	Contamination Testing Results

EXECUTIVE SUMMARY			
Appointment	Geotechnical and environmental desk study and ground investigation. The intrusive investigation included six dynamic sampler boreholes with accompanying super heavy dynamic probes, two falling head soakage tests and In-situ CBR determinations. A shallow standpipe installation was installed for a preliminary gas assessment. In addition, the investigation also included the determination of the position and depth of an underground sewage pipe.		
Existing Site	A large open grassed recreational park.		
Development	The construction of ten dwellings with private gardens and carparking.		
Ground Conditions	Strata	Base depth m	Summary
	Made Ground	0.10 to 0.25	Light brown, clayey, gravelly SAND with varying amounts of flint, sandstone, glass and china.
		0.70 to 2.10	Brown, gravelly, SAND with varying amounts of brick, metal, sandstone, glass and clinker. Strong organic odour noted at the base of WS3 and WS6.
	Alluvium	1.60 to 2.50	Mottled orange, brown and grey gravelly sandy Clay with sandstone fragments. Pockets of organic matter
		3.10 to 4.00+	Mottled dark brown, blue grey and black sandy gravelly Clay with sandstone fragments and abundant organic material (strong peaty odour)
		5.00+	Mottled light orange, brown and grey sandy gravelly Clay with occasional sandstone fragments
Groundwater	Groundwater was only struck at WS6 with short term standing water depth in the order of 2.30m which rose by 0.10m after 20 minutes.		
Foundations	Deep Made Ground and soft Alluvial soils were encountered to depths of at least 5.00 m. It is recommended that a piled foundation design is considered for the development. Three cable percussive boreholes are recommended to provide details for a pile design parameters.		
Excavations	The Made Ground is unlikely to remain stable. The Alluvium should remain generally stable. Groundwater ingress may cause instability. Risk assessments should be prepared and appropriate safety measures provided.		
Pavements	The formation is classified as being frost susceptible and a minimum pavement thickness of 450mm should be considered.		
Building Materials	DS1 and AC1 in accordance with BS8500. Water supply pipe work will not require protection from aggressive soil contaminants.		
Soakaways	The percolation was noted as being extremely poor. It is unlikely that soakaways will perform satisfactorily at this site. Consideration might be given other means of disposal such as discharge to surface water sewer.		
Ground gases	Elevated levels of Carbon Dioxide have been recorded within a preliminary ground gas monitoring exercise within the relatively deep Made Ground. Further ground gas monitoring wells should be installed and a full Ground Gas Assessment carried out to determine any potential risk from ground gases.		

Radon Gas	No issues with respect to Radon gas have been identified
Contamination	The results of the chemical analysis indicated that elevated levels of PAHs, arsenic, beryllium, lead and mercury within the Made Ground at WS1 and WS6 and asbestos at WS6. A potential risk to end users, soft landscaping, and adjacent land users was identified. Further investigation is therefore considered necessary to delineate areas of concern prior to the determination of any Remediation proposals.
Controlled waters	Laboratory tests undertaken indicated potentially leachable heavy metals (chromium, copper, lead and zinc) within the Made Ground that may pose a potential risk to groundwater and surface waters. Groundwater sampling and testing is recommended.
Waste Disposal	The Made Ground at WS1 and WS6 should be handled as Hazardous waste, WAC testing should be carried out on this material. The Made Ground at WS3 was classified as Non Hazardous and the Made Ground at WS5 met the Inert waste Criteria. It is likely that natural soils could be handled as Inert Waste.
Discovery strategy	A discovery strategy should be employed, so that any evidence of possible unidentified contamination can be dealt with appropriately
Further Action	Ground conditions varied significantly from those anticipated and the scope / extent of the Site Investigation needs to be augmented. Further investigation will be required with relation to geotechnical aspects: three cable percussive boreholes to provide details for pile design parameters Further investigation will also be required for geo-environmental aspects including; • Delineation of extent of identified contamination within shallow soils, • Additional WAC testing on the Made Ground at WS1 and WS6. • Installation gas monitoring standpipes to assess the risk from ground gases • Sampling of the underlying groundwater to assess risks to controlled waters. A remediation Method Statement should be prepared if required. This report should be submitted to relevant regulatory bodies and warranty providers in good time for approval.
<i>This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report.</i>	

2.2 INTRODUCTION

2.2 General

Land Science was instructed by Blackthorn Homes Limited on behalf of The Guinness Partnership Limited (the Client) to undertake a phase I and phase II geotechnical and geo-environmental investigation in relation to the proposed redevelopment at land adjacent to Blackwell Farm Road, East Grinstead, RH19 3JW. The location of the site is shown on Figure 1, which is centred at grid reference 539710, 138810.

1.2 The Site

The site was a large open grassed recreational park. The layout of the existing site is indicated on Figure 2, and a walkover survey is presented in section 3.0. The area was approximately 0.56 hectares.

It was understood that the Client was not in ownership of the site, and that this investigation relates to a pre-purchase appraisal.

1.3 Form of Development

The proposed development was understood to comprise the construction of ten residential dwellings with private gardens and carparking. Figure 3 illustrates the layout of the proposed redevelopment.

1.4 Previous Investigations

Land Science was not aware of any previous desk studies or ground investigation(s) undertaken on this site and for this scheme.

1.5 Scope of Works

In accordance with the agreed scope, the investigation comprised the following:

- Six dynamic sampler boreholes (WS1 to WS6) with accompanying super heavy dynamic probes,
- Falling head soakage tests (carried out in WS1 and WS5),
- In-situ CBR determinations using a TRL dynamic Cone Penetrometer,
- A GPR Survey to determine the position and depth of an underground sewage pipe.

The fieldwork was conducted on 09th and 10th August 2018 under the supervision of Land Science.

1.6 Geotechnical Objectives

A geotechnical investigation was required to provide an interpretation of ground conditions with respect to foundations, pavements, soakaways, concrete specification and excavations.

1.7 Geo-Environmental Objectives

A phase I (desk study) and phase II (intrusive investigation) was required, to provide a generic quantitative risk assessment (GQRA) in respect of the proposed redevelopment, adjacent land uses, and the wider environment, in the context of the planning regime.

1.8 Standards

Where practicable, the investigation was undertaken in accordance with the following standards and guidance:

- Model Procedures for the Management of Contaminated Land, DEFRA and Environment Agency, September 2004 (“CLR11”).
- Guiding Principles for Land Contamination, Environment Agency, March 2010, (“GPLC”).
- National Planning Policy Framework, July 2018.
- Building Regulations Approved Document C: Site preparation and resistance to contaminants and moisture, HM Government, July 2013.
- NHBC Standards Chapter 4.1: Land Quality – Managing Ground Conditions, 2018 edition.
- BS 5930:2016 Code of Practice for Site Investigations
- BS 1377:2015 Soils for Civil Engineering Purposes

Unless otherwise explicitly stated, the work has not been undertaken in accordance with Eurocode 7 and this report does not represent a Geotechnical Design Report (GDR) under that standard.

Other technical sources have been cited in respect of specific aspects of the investigation, as referenced throughout the text.

1.9 Confidentiality and Limitations

This report may be relied upon by the Client and their agents and consultants, and should be read and used only in full.

The report may not be relied upon or transferred to any other parties without the express written agreement of Land Science. No responsibility will be accepted where this report is used, either in full or in part, by any other party.

Third party information used in the production of this report has been relied upon as being accurate. Land Science cannot warrant or accept any liability for errors and/or omissions in third party information.

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2.0 PHASE I DESK STUDY

2.1 General

A geotechnical and geo-environmental desk study was prepared, and included a review of:

- Maps and historical borehole records from the British Geological Survey
- Information publicly available online from the Environment Agency
- Historical Ordnance Survey maps
- An environmental data report

Copies of relevant data are presented in Appendix A

2.2 Geology

2.2.1 Geological Mapping

Based on mapping published online by the British Geological Survey (BGS), the geology of the site was anticipated to comprise the following succession:

Strata	Generic description
Lower Tunbridge Wells Sands	The Tunbridge Wells Sand consists mainly of grey silt and yellowish fine silty sand with cemented beds of siltstone and sandstone at intervals. Irregular beds of red mottled 'catsbrain' clay are interbedded at several horizons.
Wadhurst Clay	Dark grey shales, clays and silty clays with subordinate beds of silt, sandstone, shelly limestone and clay ironstone. The shales are commonly finely banded. The shelly limestone which is rarely more than 75mm in thickness, occurs in close association with the dark grey shales.

Although no superficial deposits were noted on the online BGS mapping, the encountered ground conditions detailed in Section 6.2 were noted as soft clays with a high proportion of organic material and interpreted as being Alluvium. The historical mapping indicated a pond on the site and a stream was noted 30m to the east of the site which may historically have been present on site.

2.2.2 Historical Borehole Records

Records of old boreholes are held by the BGS. However, no relevant borehole records were available

2.2.3 Background Geochemistry

The BGS publish a series of different estimated background levels of selected contaminants, which are useful for land quality assessments, to establish whether results may be attributed to pollution or soil parent material composition.

The BGS estimate the natural background concentrations of certain potentially harmful elements based on rural topsoil and stream sediment analysis. Data relevant to the site and immediate vicinity is summarised below:

Location:	Arsenic:	Cadmium:	Chromium:	Lead:	Nickel:
Onsite	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	<100 mg/kg	15 - 30 mg/kg
21m E	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	<100 mg/kg	15 - 30 mg/kg

2.2.4 Geological Hazards

The BGS produce hazard assessment maps for a selection of common geotechnical datasets, and the classifications referring to the site (and immediate vicinity – if relevant) are summarised below:

Dataset:	Hazard Potential:
Potential for Collapsible Ground Stability Hazards	On site and in 250m – Very Low
Potential for Compressible Ground Stability Hazards	On site and in 250m – No Hazard
Potential for Ground Dissolution Stability Hazards	On site and in 250m – No Hazard
Potential for Landslide Ground Stability Hazards	On site and in 250m – Very Low
Potential for Running Sand Ground Stability Hazards	On site and in 250m – No Hazard
Potential for Shrinking or Swelling Clay Ground Stability Hazards	On site – No Hazard 21m E and 232m E – Low Hazard

2.2.5 Mining and Natural Cavities

A search of various databases for coal mining, mining, brine compensation, and natural cavities was carried-out, and the findings are summarised below:

Database	Results
CBSCB Compensation District	No features found
Coal Mining Affected Areas	No features found
Non Coal Mining Areas of Great Britain	Risk identified as “highly unlikely”.
Mining Instability	‘Inconclusive Iron Ore Mining’ 305m NE of the site.
Man-Made Mining Cavities	No features found
Natural Cavities	Features found – see below
BGS Recorded mineral site	Feature found – see below

Natural Cavities within 500m radius of the site is presented below:

Location:	Cavity Type:	Solid Geology Detail:
274m S	Gulls/Fissures due to Cambering	Tunbridge Wells Sand Formation, Wadhurst Clay Formation
427m SE		

BGS recorded mineral sites within 500m radius of the site is presented below:

Location:	Site Name:	Type:	Commodity:
331m N	Hackenden	Opencast	Sandstone – Ardingly Sandstone member

2.2.6 Radon Potential

The requirement for Radon Protection Measures (RPM) has been assessed in accordance with BRE 211:2015¹. Public Health England and the BGS estimate the potential for radon and the requirement for Radon Protection Measures on site as follows:

Probability	Protection Measure
Less than 1% of homes are estimated by PHE to exceed the threshold for Radon gas in residential dwellings.	No Radon Protection Measures (RPM) are required for new dwellings or extensions constructed at this location.

2.3 Hydrogeology

Based on the geology and topography of the local area, shallow groundwater was anticipated. With respect to section 3.1 a possible stream crosses the site and ponds were identified on and within close proximity to the site. The site is close to the underlying Wadhurst Clay, which may act as an aquiclude.

2.3.1 Groundwater Flooding

The BGS have produced a series of hazard assessments for the potential of flooding from groundwater, the site and land within 250m have been identified as having a limited potential for groundwater flooding.

2.3.2 Aquifer Designations

The Environment Agency classifies geological units across England into different designations as Aquifers. The designations for strata beneath the site are given below, which corresponds to an overall designation as a Secondary A Aquifer.

Strata	Classification	Details
Groundwater Vulnerability	High (Class U)	On site-Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise. Soils within former mine workings or urban areas are assumed to be of a high vulnerability until proven otherwise.

Strata	Classification	Details
Bedrock Aquifer Designations	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

2.3.3 Groundwater Abstractions

Groundwater abstractions identified as part of the desk study within a radius of 1000m of the site are summarised below.

Location:	Address:	Operator:	Abstraction:	Details:
845m N	Boreholes at Hackenden Ps, East Grinstead (East Of Railway)	South East Water Plc	Public Water Supply: Potable Water Supply - Direct	Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 7th December 2006 Permit End Date: Not Supplied
957m N	Boreholes at Hackenden Ps, East Grinstead (West of Railway)			

2.3.4 Source Protection Zones

A groundwater Source Protection Zone (SPZ) is an area of protection placed around a well or borehole that supplies groundwater of potable quality. No groundwater Source Protection Zones were identified on and within 250m of the site according to Environment Agency mapping.

2.3.5 Drinking Water Protection Zones

A Drinking Water Protection Zone is similar to a SPZ. No protection zone identified have been identified on and within 250m of the site according to Environment Agency mapping.

2.4 Hydrology

2.4.1 Surface Water Features

The nearest surface water feature (a stream) identified on Ordnance Survey mapping was located 52m to the East of the site.

The Ordnance Survey also map water network lines, and the following data within 100m of the site is summarised below:

Location:	Watercourse Length:	Details:
55m E	9.5	Watercourse Form: Lake. Name: Not Supplied Catchment Name: Medway
60m E	10.6	Watercourse Form: Inland river. Name: Not Supplied
64m E	294.4	Catchment Name: Medway

2.4.2 River Quality

No relevant River Quality data was identified by Envirocheck within a 200m radius of the site.

2.4.3 Surface Water Abstractions

No surface water abstractions were identified within a radius of 1000m of the site.

2.4.4 Surface Water Flooding

Land potentially susceptible to flooding from seas, rivers, reservoirs and surface water is identified by the Environment Agency. The site and immediate area have not been identified as being susceptible to surface water flooding.

2.5 Industrial Land Uses

2.5.1 Licences Database Search

A search of various industrial land use databases was carried-out, and the findings relevant to the site are summarised below:

Database	Results
Prosecutions Relating to Authorised Processes	No features found within 250m radius of the site
Integrated Pollution Controls	
Registered Radioactive Substances	
Contaminated Land Register Entries and Notices	
Enforcement and Prohibition Notices	
Integrated Pollution Prevention and Control	
Substantiated Pollution Incident Register	
Local Authority Integrated Pollution Prevention and Control (LA IPC)	
Local Authority Pollution Prevention and Control Enforcements (LA PPC)	
Hazardous Substances	
Water Industry Act Referrals	
Pollution incidents to Controlled Waters	Details in table below

The pollution incident to controlled waters identified within 250m radius of the site has been summarised below.

Location:	Property Type:	Address:	Pollutant:	Incident Date:	Receiving Water:	Details:
92 SE	Water Company Sewage: Foul Sewer	Mount Noddy, East Grinstead	Crude Sewage	14th July 1997	Not Given	Cause: Not Given Category 3 - Minor Incident
235 E	WSC Sewage, Sewerage & Supply	Lynton Park Avenue, East Grinstead	General Biodegradable: Crude Sewage / Sewerage Material	10th October 1999	Potential River	Cause: Drainage Failures: Foul Sewer Failure Category 3 - Minor Incident

2.5.2 Contemporary Trade Directories

A search of contemporary trade directory databases was made, and the following data was identified within 250m of the site.

Location:	Name:	Address:	Classification:	Status:
152m N	M J Cleaning Services	13, Greenstede Avenue, East Grinstead, West Sussex, RH19 3HZ	Commercial Cleaning Services	Active
234m N	Expest	47, Elizabeth Crescent, East Grinstead, West Sussex, RH19 3JE	Pest & Vermin Control	Active

2.5.3 Points of Interest

A search of “points of interest” was made, and the following data relevant to this report was identified within 250m of the site.

Location:	Address:	Category:	Class Code:
64m W	Mount Noddy Cemetery	Infrastructure and Facilities	Cemeteries and Crematoria
119m S	East Grinstead Police Station, East Court, College Lane, East Grinstead,	Central and Local Government	Police Stations
230m S	Playground, Nr Blackwell Hollow,	Recreational	Playgrounds
233m N	Expest, 47, Elizabeth Crescent, East Grinstead.	Contract Services	Pest and Vermin Control

2.5.4 Fuel Station Entries

No Fuel station entries were recorded within a 250m radius of the site.

2.5.5 Underground Pipelines and Cables

A search of records of major underground pipelines and cable infrastructure; no features were found within a 250m radius. Other utilities may exist, and a full search was not part of this report.

2.5.6 Discharge Consents

One Discharge consent was identified within a radius of 250m are summarised on the following table:

Location	Purpose	Details
53m E	Public Sewage and Storm Sewage Overflow	Mount Noddy Cemetery Lodge, Blackwell Road, East Grinstead. Receiving Water: Un-named Tributary of Medway Via Pond Status: Not Supplied

2.5.7 Waste Management Facilities

Searches of various databases of current and historical waste management facilities (including mapped areas of possible infilled land) are summarised on the following table:

Database	Results
Historical Landfill Sites	No features found within a 250m radius of the site.
Licensed Waste Management Facilities	
Registered Landfill Sites	
BGS Recorded Landfill Sites	
Integrated Pollution Control Registered Waste Sites	
Local Authority Recorded Landfill Sites	
Registered Waste Transfer Sites	
Registered Waste Treatment or Disposal Sites	
Potentially Infilled Land	Features found - see table below

A potentially Infilled Land (water) was recorded within a 250m radius of the site:

Location:	Use	Date of Mapping
13m E	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1950

No waste management facilities were identified within 500m of the site.

2.6 Statutory Authority Searches

An enquiry was made to the Contaminated Land and Environmental Protection Officer at Mid Sussex District Council in order to confirm relevant information obtained as part of the desk study. The Council did not have any records relating to the site or locations within the vicinity (See Appendix A).

3.0 SITE HISTORY

3.1 Historical Maps

Large scale (e.g. 1:2,500) historical maps dating between 1898 and 2018 were reviewed to identify the history of the site and local area. The outline of the site shown is geo-referenced to the current grid system; due to inaccuracies in mapping techniques the actual boundary on older maps may vary. Smaller scale (e.g. 1:10,000) maps were reviewed, but did not provide further relevant historical information. Given the size of these files sizes, smaller scale maps are not appended to the report but are available separately.

In summary, the site comprised a series of small fields associated with Blackwell Farm between 1898 and 1931. Two small ponds were noted on site; one in the south western corner and the other in the south eastern corner, a stream was noted to flow across the site from the north western corner of the site down to the pond in the south eastern corner of the site. The surrounding area was open farmland, buildings associated with Blackwell Farm were located immediately to the north east of the site.

By 1962 Blackwell farm had been redeveloped with a large housing development with Blackwell Farm Road along the eastern site boundary and Blackwell Road to the south; the site itself was cleared and became vacant space; no evidence of the ponds or streams were noted. The site and immediate area remained undeveloped until present day

The key apparent features noted on site and the surrounding area are summarised below.

Land use	Location	Dates	Description
Allotment gardens	150m NW	1910 to present	Two large allotment gardens were noted 150m to the north west.
Cemetery	Immediately west	1931 to present	A field to the west of the site had been redeveloped into a cemetery.

3.2 Aerial Photographs

Aerial photographs dated 1947 and 1999 were also reviewed. In summary, the site comprised undeveloped farmland in 1947 and was still undeveloped in 1999. The key apparent features noted on the surrounding area are summarised below.

Date	Off Site
1947	- Farmland to the north and east, Cemetery to the west and a recreation area to the south beyond Blackwell Road. - The area to the south west had been developed with residential properties. - A large residential estate was under construction 200m to the north east.

Date	Off Site
1999	As the 1947 photograph but with the additional changes: - • The previous farmland to the north and east had been developed into residential properties. • The area to the south of Blackwell Road had been developed into a Police Station.

The site and surrounding area were viewed using Google Streetview, the site was noted as a undeveloped grassed area. The aerial view of the site indicated a 'L' shaped feature around the south eastern corner of the site, the individual photos of the site indicate that this colour difference may have possibly been a re-seeding exercise as various Streetview images of the site indicate areas of bare ground in this area (a result of possible footpaths).

3.3 Historical Research

An internet search for the land adjacent to Blackwell Farm Road was undertaken and although no commercial activities were noted for the site, comments by local residents in relation to the proposed development of the site indicated the possibility that the southern end of the site had been a former pond that had been infilled.

4.0 SITE WALKOVER

4.1 General

A site walkover was undertaken as part of the fieldwork on 09th August 2018. Photographs of the site are provided in Appendix A.

4.2 Site Layout

In summary, the site comprised a broadly irregular shaped open grassed public park. Trees were noted around the edge of the site with the exception of the northern boundary.

4.3 Surrounding Area

The site was situated in a predominantly residential area, with a residential property located adjacent to the northern site boundary and beyond Blackwell Farm Road to its immediate east. The A264 was situated to its immediate south. A large cemetery was located adjacent to the western site boundary.

No potentially contaminative land uses were identified in the local vicinity.

4.4 Elevation and Topography

The site sloped to the north-east, falling from an approximate elevation 120.0mOD in the south-west to 114.0mOD on the eastern site boundary. The surrounding area was also noted to slope from the south-west to the north.

A large depression was noted within the south western corner of the site (corresponding to a possible infilled pond noted by the residents – see section 3.3) with the elevation to be around 113.9mOD.

4.5 Ground Conditions

No evidence of existing soil conditions was observed, such as open excavations or the like.

No immediate evidence of significant structural movement was observed, or was reported to Land Science. However, our inspection was cursory and a full survey was outside the scope of this report.

4.6 Surface Water and Groundwater

No surface water features were identified on site or in the immediate vicinity. No evidence of shallow groundwater, such as boggy waterlogged soils or water loving plants etc., were noted.

4.7 Trees and Vegetation

Tall, deciduous, mature trees, around 12m in height, were situated in all directions apart from the north. There was an abundance of trees situated in the western boundary compared to the rest of the site.

A detailed arboricultural survey was outside the scope of this report. A survey may be required for tree root protection purposes or for assessing the depth of foundations in the vicinity of trees.

5.0 CONCEPTUAL SITE MODEL (CSM)

5.1 General

A preliminary geo-environmental Conceptual Site Model (CSM) was formulated for the site based on the desk study & site walkover, and in light of the proposed development. The model should be revised where the development proposals differ, any ground investigation data is available, or where unexpected conditions are encountered.

The model has been designed primarily in accordance with established procedures in BS5930, BS10175 and CLR11, and also draft ISO guidance. In accordance with best practice, the model has been used to identify possible contamination risks following a source-pathway-receptor ('SPR') approach.

5.2 Potential Sources

The principle of primary and secondary sources has been adopted in accordance with ISO/CD 21365. Further information is given in the accompanying notes, and are summarised as follows:

A **primary source** is for instance a leaking tank or drainage, industrial activity, buried fill materials, etc, identified as part of the desk study and site walkover.

A **secondary source** is either soils, ground gases and groundwater, in which any resulting contamination may occur; for instance a leaking tank may contaminate soils and groundwater, or buried fill materials may represent soil contamination and a source of ground gases.

It should be noted that sources may also be receptors; for instance, groundwater may both be a receptor (as in the background chemical quality of an aquifer or resource) and in turn become a source (contaminated waters impacting on buried concrete structures).

Identified primary and secondary sources of possible contamination arising in soils identified as part of the desk study and site walkover on site are summarised on the following table.

Primary Source	Description	Contaminants	Secondary Source(s)
Made Ground	Made Ground may exist on site. The provenance of such materials is unknown and may be contaminated.	Wide range of possible metals, non-metals, organic contaminants, asbestos, etc.	Soils Groundwater
	Microbial decay of organic materials contained within Made Ground may generate ground gases. This is generally only	Low levels of Methane (typically <0.5%) and Carbon Dioxide (typically <5.0%). May also result in depleted levels of oxygen.	Ground gases

Primary Source	Description	Contaminants	Secondary Source(s)
	significant where the depth of fill exceeds 1m and the organic content exceeds 1% SOM.		
Alluvium	Microbial decay of organic materials contained within the Alluvium may generate ground gases.	Elevated levels of Methane and Carbon Dioxide. May also result in depleted levels of oxygen.	Ground gases

5.4 Identified Receptors

Potential receptors associated with the site and the proposed development are summarised on the following table:

Receptor	Description	Included	Notes
End users	Occupants of the proposed redevelopment.	✓	Residential development
Adjacent land users	Sensitive land uses identified locally	✓	Residential properties were noted to the north and east.
Soft landscaping	Areas of planting including lawns, shrubs, trees, etc.	✓	Private domestic gardens to the rear of each property and communal soft landscaping to the front
Building materials	Built elements in contact with the ground.	✓	Water supply pipework and buried structural concrete susceptible to chemical attack.
Surface water	Surface water in lakes and rivers etc.	✓	A stream was identified 50m to the south east.
Ground water	Water below ground in permeable strata.	✓	The site overlies a Secondary A aquifer.

The following potential receptors were excluded from the assessment as they are covered by other legislative controls and are outside the remit of this report.

Receptor	Description	Notes
Ecological receptors	Statutory protected species or wildlife areas	An assessment of such risks was outside the scope of this report.
Site workers	Persons involved in construction works	Any risks posed to site workers would be controlled through other regimes including Health & Safety legislation, the CDM regulations and COSHH regulations etc.

5.5 Source-Pathway-Receptor Linkages

The following table identifies the potential pathways considered in this report, and identifies the potential linkages between secondary sources and receptors. Off-site sources impacting on off-site receptors have not been considered.

Secondary Source(s)	Associated Pathways		Receptor					
			End Users	Adjacent land	Soft landscaping	Building material	Surface water	Ground water
Soils	Dermal contact	Soils	✓					
		Soil-borne dusts	✓	✓				
	Ingestion	Soils	✓					
		Soil-borne dusts	✓	✓				
		Homegrown vegetables	✓					
	Inhalation	Soil-borne dust	✓	✓				
		Volatile vapours	x	x				
	Plant uptake	Phytotoxic effects			✓			
	Chemical attack	On concrete (i.e. foundations)				✓		
		On plastics (i.e. water supplies)				✓		
	Leaching	into ground water etc					✓	✓
Ground gases	Inhalation, health effects, asphyxiation, explosion		✓	✓				
	Phytotoxic effects			x	✓			
	Corrosive compounds			x		✓		
Ground-water	Chemical attack	On concrete (i.e. foundations)				✓		
		On plastics (i.e. water supplies)				✓		
	Lateral migration and impact at receptors.						✓	✓
	Vapours, generated from groundwater		x	x		x		
	Phytotoxic effects			x	x			

6.0 INTRUSIVE INVESTIGATION

A factual record of the conditions encountered during the physical investigation of the site is presented in the following sections.

6.1 Investigation Strategy

Based on the findings of the conceptual site model and the geotechnical objectives, the intrusive investigation was based on the following strategy:

Aspect	Position	Target depth	Existing Location	Proposed Location	Testing etc
Dynamic Sampler boreholes	WS1	4m	Northern section of park	To the rear of the northern dwelling	FHST, SHDP
	WS2		Centre of park	To the front of the central dwellings	DCP, SHDP
	WS3				
	WS4		Southern end of the park	Proposed dwellings in the southern end of the site / possible backfilled pond*	DCP, SHDP
	WS5				SHDP, FHST
	WS6				SHDP, SP

NOTES:

SHDP = Super Heavy Dynamic Probe
FHST = Falling Head Soakage Test

DCP = Dynamic Cone Penetrometer
SP = Monitoring well

* The presence of relatively deep Made Ground of a similar composition and deep Alluvium which may suggest that the infilled pond in fact may have covered the whole of the site.

With the exception of WS3 and TP1 all of the positions achieved their target depth. These positions refused on denser material (gravel lenses).

Due to the presence of deep Made Ground at the site a monitoring well was installed in WS6 for preliminary gas monitoring purposes. The response zone was located within the Made Ground between a depth of 0.50 and 1.00m (slotted pipe with 10mm pea shingle filter pack), sealed with hydrated bentonite pellets.

In addition to the above positions a survey was also undertaken to determine the depth and position of the underlying sewers. Details relating to this are contained within Appendix D.

6.2 Soils Encountered

The soils encountered were not as expected from the BGS mapping; the Lower Tunbridge Wells Sands were not encountered. The geological succession comprised a variable thickness of Made Ground overlying soils interpreted as being Alluvium (organic Clays). A summary of the encountered conditions is presented below.

Base Depth m						Strata	Summary description
WS1	WS2	WS3	WS4	WS5	WS6		
0.10	0.10	0.15	0.20	0.20	0.25	Made Ground	Grass overlying light brown, clayey, gravelly SAND with vary amounts of flint, sandstone, glass and china.
1.10	0.70	2.00	1.80	0.65	2.10		Brown, gravelly, SAND with varying amounts of brick, metal, sandstone, glass and clinker. Strong organic odour noted at the base of WS3 and WS6.
1.60	2.30	-	-	2.50	-	Alluvium (possible Made Ground)	Mottled orange, brown and grey gravelly sandy Clay with sandstone fragments. Pockets of organic matter.
3.70	3.10	2.70+	3.00	3.80	4.00+		Mottled dark brown, blue grey and black sandy gravelly Clay with sandstone fragments and abundant organic material (strong peaty odour)
4.00+	4.00+	-	4.00+	4.00+	-		Mottled light orange, brown and grey sandy gravelly Clay with occasional sandstone fragments.

The identification of materials encountered as specific geological strata is tentative and should be used as a guide, and interpolation between or below investigation points should be treated with caution.

6.2.1 Roots and Rootlets

Roots were identified within all of the exploratory positions as summarised in the following table.

Position	Roots and rootlets
WS1	Made Ground – Abundant roots and rootlets – GL to 1.10m
	Alluvium – Rare decayed roots and rootlets 1.10 to 3.70
	Alluvium – occasional decayed roots and rootlets 3.70m to 4.00m+
WS2	Made Ground – Abundant roots and rootlets – GL to 0.70m
	Alluvium – occasional decayed roots and rootlets 0.70 to 4.00m+
WS3	Made Ground – Abundant roots and rootlets – GL to 1.00m
	Alluvium – abundant decayed roots and rootlets 2.00 to 2.70m+
WS4	Made Ground – Abundant roots and rootlets – GL to 1.80m
	Alluvium – abundant decayed roots and rootlets 1.80 to 4.00m+
WS5	Made Ground – Occasional roots and rootlets – GL to 0.20m
	Alluvium – occasional decayed rootlets at 3.50m
WS6	Made Ground – Occasional roots and rootlets – GL to 0.75m
	Alluvium – occasional decayed rootlets 2.10 to 4.00m+

6.2.2 Field Evidence of Contamination

Although no evidence staining, malodours, or brightly coloured soils were identified in the field, the Made Ground (which extended to a depth of 2.10m) was noted as containing varying amounts of brick, glass, clinker and metal fragments

The Made Ground may be imported from an unknown source or mixed with hazardous materials, and as such may contain a wide range of potential contaminants. All such materials should be treated as suspect unless proven otherwise. Testing for these compounds has been carried out, as described in section 6.5.

6.3 Groundwater

Groundwater was only struck during the excavation of WS6 with short term standing water depth in the order of 2.30m which rose to 2.20 m after 20 minutes.

Groundwater was not recorded during the return monitoring; however, the standpipe was only installed to a depth of 1.00m.

Groundwater levels may vary seasonally and with variations in rainfall. Water may also become perched upon cohesive strata or around features such as foundations, and may also occur from leaking drains and water mains etc.

6.4 Ground Gas Monitoring

The results of the ground gas monitoring are summarised on the following table. Depending on the parameter with the maximum (peak) or minimum readings are reported, as stated.

Measurement		WS6
Carbon Dioxide %	Maximum	7.0
Methane %	Maximum	0.0
Oxygen %	Minimum	13.4 – 16.1
VOCs ppm	Maximum	0.0
Flow rate l/hr	Full range	0.0 – 0.1

Below is a summary of the atmospheric pressure conditions during the monitoring visits:

Visit	Pressure (recorded on site)	Published pressure trend
16/08/2018	1001mB	Fluctuating high pressure

6.5 Geo-Chemical Field Testing

VOC analysis in headspace was carried-out in samples of soil from all broadly in accordance with the methodology set-out in CIRIA C682. None of the samples exhibited VOC's above the detection limit (<0.1ppm).

The purpose of the screening was to identify samples which may be impacted by organic contaminants (such as VOC's, SVOC's, petroleum hydrocarbons, diesel, etc) and to assist in prioritising samples for laboratory analysis.

6.6 Geochemical Laboratory Analysis

Samples were selected for geochemical analysis, based on the following rationale:

- Four representative samples of Made Ground from across the site were analysed for a routine screening suite (LS1). Three were taken at relatively shallow depths (at WS1, WS3 and WS5) with a further sample taken within the deeper Made Ground at WS6. This was based on the findings of the CSM and ground conditions encountered.
- The four samples of Made Ground were also screened in the laboratory for asbestos such as flecks of fibrous lagging and in asbestos containing materials such as cement board etc.
- A sample of the Made Ground from WS5 at 0.40m was also tested for a Waste Acceptance Criteria (WAC) test (LS2) to provide a preliminary assessment with respect to waste disposal.

A summary of the testing scheduled is given below:

Suite	WS1 0.10m	WS3 0.50m	WS5 0.40m	WS6 1.50m
LS1	✓	✓	✓	✓
Asbestos	✓	✓	✓	✓
LS2	-	-	✓	-

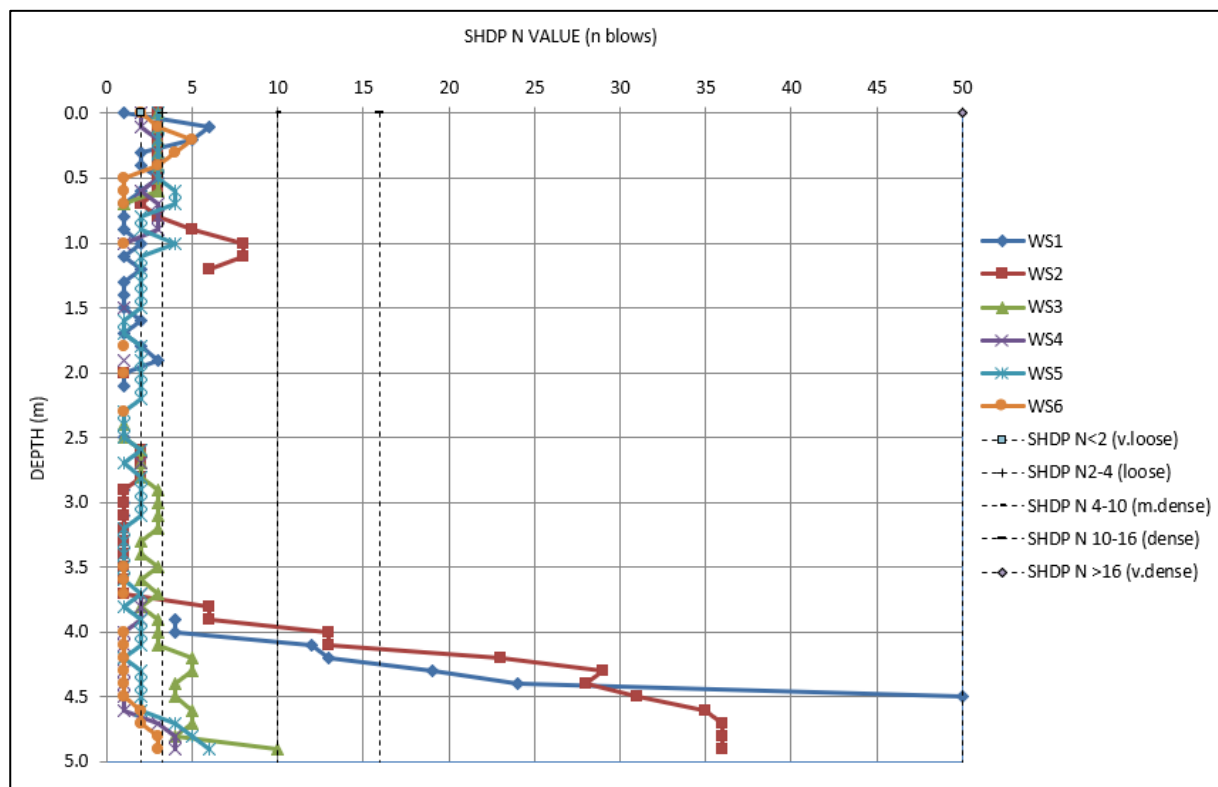
The relevant screening suites are defined below. Where duplicate analysis exists between suites, each test is performed only once:

Suite	Definition
LS1 (soil)	Screening suite: pH, fraction of organic carbon, Metals and Non Metals, water soluble Sulphate, Sulphide, total Cyanide, total Phenols, speciated PAH's.
Asbestos	Asbestos screen: Laboratory screening for fibres and Asbestos Containing Materials; identification where identified. Using polarising light and dispersion staining.
LS2	Waste Acceptance Criteria: Total Organic Carbon, Loss on Ignition, BTEX, speciated PCB's, Mineral Oil (EC10 – EC40), pH, Acid Neutralisation Capacity, speciated PAH's, 10:1 leachable Metals and Non Metals.

The results of geochemical analysis are discussed in section 8.0.

6.7 Geotechnical Field Testing

Super heavy dynamic probes (SHDP) was undertaken adjacent to all the borehole positions. The test is used as a measure of the relative density of granular soils (as defined in BS5930:1999). The test provides limited data in cohesive soils but may be used to illustrate changes in consistency with depth.



No materials appropriate for shear vane or hand penetrometer tests were identified in the boreholes.

Falling Head Soakage tests were undertaken in WS1 and WS5. The water level fell 0.14m in four hours at WS1 and 0.11m in one hour at WS5. The readings were insufficient to calculate a soil infiltration rate.

The in-situ CBR tests results are summarised below:

Strata	Depth	Results (%)
Made Ground	0.00 to 0.95	1.7 to 24.4
Alluvium	0.70 to 0.95 (WS2 only)	17.8

6.8 Geotechnical Laboratory Testing

Samples of soil were sent for laboratory geotechnical testing; copies of the results are appended, and summaries are given in the following tables. The testing was undertaken in accordance with the relevant British Standards in BS1377 following documented quality procedures.

Particle Size Distribution analysis was performed on representative samples of more granular materials.

Strata	No. of tests	% Clay/Silt	% Sand	% Gravel	% Cobbles
Alluvium	1	60.8	16.1	23.1	0.0

Atterberg Limit tests were undertaken on selected samples of cohesive soils, as summarised below. A modified plasticity index (PI') was calculated following the NHBC methodology, to account for any non-shrinkable percentage not passing the 425µm sieve, and a mean PI' value is shown in brackets.

Strata	No. of tests	Plasticity index (PI) %	% Passing 0.425µm	PI' %
Alluvium	6	13 to 29	90 to 100%	11.7 to 29 (mean 17)

Water content determinations (formerly known as *moisture content*) were undertaken in combination with various classification tests, and the results are summarised below. A profile of moisture content results versus depth is presented in Appendix C.

Strata	No. of tests	Water content %
Alluvium	22	Generally 17 to 39 (higher readings within peaty material – 48 to 70)

Geochemical testing for water soluble Sulphate and pH were undertaken, and the results are summarised on the following table.

Strata	No. of tests	Water soluble Sulphate (SO ₄ g/l)	pH (value)
Made Ground	4	0.019 to 2.4	5.9 to 7.2
Alluvium	4	0.040 to 0.147	6.8 to 7.2

Two loss on ignition tested were undertaken, and the results are summarised on the following table.

Strata	No. of tests	Loss on Ignition %
Made Ground	1	1.9
Alluvium	1	2.1

7.0 GEOTECHNICAL ASSESSMENT

The following recommendations have been made with respect to geotechnical design.

7.1 General Foundation Design

The proposed development was understood to comprise the construction of ten residential dwellings with carparking and private gardens.

Significant thicknesses of Made Ground were encountered across the site, to depths of between 0.60 to 2.10 mbgl. In addition, below the Made Ground, significant thicknesses of soft Alluvium was encountered, extending to depths in the order of at least 5.00 mbgl. The engineering characteristics of these materials are such that high total and differential settlements may occur at relatively light foundation bearing capacities and shallow foundations might not be economical or practical to construct.

On this basis, it is recommended that consideration may be given to an alternative foundation solution, such as the use of piles. In order to gather data for pile design parameters, it is recommended that three 15m deep cable percussive boreholes are drilled across the site.

7.2 Volume Change Potential

Soil shrinkability has been assessed following the NHBC Standards Chapter 4.2 (January 2018 edition). It is recommended that the advice of this publication (or similar guidance) is taken when designing and constructing foundations in the zone of influence of trees and hedgerows that currently exist, are to be planted, or have recently been felled.

Although the average Modified PI for the Alluvium was noted to be 17% a number of the values were above 20% and therefore the material has been classified as having a Medium volume change potential.

Strata	% passing 425µm sieve	Modified Plasticity Index	Shrinkability classification
Alluvium	-	20-40%	Medium volume change potential

Specifications for heave precautions on medium soils are summarised below. In addition to the depths marked *, localised deepening of foundations will be required in the influence of trees; it will be necessary to evaluate tree species and height in relation to the proposed building footprints. If not already carried out, an arboricultural survey will be required.

Volume Change Potential		Medium
Minimum depth for traditional foundations outside zone of influence of trees (m) *		0.90m
No tree planting zone required for minimum depth foundations above (m)		0.5 x mature tree height
Minimum depth for traditional foundations but allowing for restricted new planting (m) *		1.25m
Minimum void dimension	Against side of traditional foundations and ground beams etc.	25mm
	Beneath ground beam and suspended in-situ concrete ground floors etc.	100mm
	Beneath suspended precast concrete or timber floors etc.	250mm
Minimum allowance for potential ground movement for new drains		100mm

All foundations should extend below any major root zones or desiccated soil encountered, and trenches should be carefully inspected accordingly. Void former will be required for foundations deeper than 1.50m and within the influence of trees.

7.3 Piled Foundations

Three 15m deep cable percussive boreholes will be needed across the site to provide pile design parameters.

The working load for piled foundations will depend on the installation technique, the dimensions of the individual piles and any pile groups, in addition to the ground conditions. The construction of piled foundations is a specialist job and the advice of a reputable contractor should be sought prior to finalising the design.

7.4 Ground Floor Slabs

Given the presence of soils susceptible to volume change potential (i.e. shrinkable) and Made Ground in depths greater than 0.60mbgl and the possible requirements relating to ground gas protection as, it is recommended that all ground floor slabs should be fully suspended, with a suitable minimum void space.

7.5 Excavations

The risks arising from excavation works should be properly assessed and appropriate safety precautions should be adopted. Reference may be made to various guidance including BS8000-1:1989, BS6031:2009 and CIRIA C97.

The likelihood of excavation instability through different strata has been assessed as summarised below. It should be noted that all open unsupported excavations have the potential to collapse.

Strata	Stability
Made Ground	Generally unstable. May be battered back to a safe angle. Deeper excavations may require trench support.
Alluvium	Marginally stable in the short term. Spalling and collapse should be expected, particularly in long or deep excavations which are left open for prolonged periods.

Excavations which are to remain open for prolonged periods will require trench support.

Water seepages may be encountered at shallow depth, particularly during wetter climatic conditions, and therefore some localised dewatering and trench support may be required.

Elevated levels of Carbon Dioxide (with slightly depleted levels of oxygen) were detected within the borehole standpipe at WS6, and consequently there is a potential for ground gases to accumulate within excavations at deleterious concentrations.

It is considered that normal-rated plant and machinery will be sufficient for undertaking excavations.

Adjacent excavations should generally be tackled in order of depth with the deepest first. Vehicles and spoil heaps etc. should not surcharge excavations, and edge protection and fencing should be used as appropriate. Frozen materials should generally not be used as backfill.

7.6 Pavements

The formation level for pavements is expected to comprise Made Ground at a depth of 450mm.

The Made Ground was of a mixed composition, and the engineering characteristics of such soils are highly variable and unpredictable. Due to the variability of the Made Ground it would be prudent to assume the material to be frost susceptible throughout, thus a minimum pavement thickness of 450mm would be appropriate.

The formation level should be carefully inspected, and any soft or loose zones should be removed and replaced with engineering fill, well-compacted in layers to a suitable specification. Consideration might be given to installing geotextiles. Cohesive formations will degrade rapidly if exposed to standing water for even short periods. All engineering fill should be granular and non-frost susceptible (i.e. <10% fine material passing 425µm sieve).

Any hard spots in the formation level such as old foundations may induce reflective cracking in the pavement and allowance should be made for removing any slabs or other hard spots etc. that may be present.

7.7 Building Materials

Based on BS8500-1:2015+A1:2016, the results of the Sulphate and pH analyses fell into Class DS-1 and an ACEC class AC-1 is deemed appropriate. The advice of this publication should be taken for the design and specification of all sub surface concrete.

Buried plastics used for potable water supplies should not require any special specification in order to resist chemical contamination. No pipework should be laid where there is evidence of hydrocarbons.

7.8 Surface Water Drainage

Preliminary falling head soakage tests were undertaken within WS1 and WS5. However, the percolation was extremely poor and a soil infiltration rate could not be calculated.

Given the low permeability of shallow soils, it is unlikely that soakaways will perform satisfactorily at this site. Consideration might be given other means of disposal such as discharge to surface water sewer.

Due to the risk of instability and possible contamination issues, the Made Ground is not considered a suitable stratum into which surface water drainage could be discharged. Permeable surfacing over such materials might be problematic.

8.0 PRELIMINARY SOIL CONTAMINATION ASSESSMENT

8.1 General

A Tier 1 Generic Quantitative Risk Assessment (GQRA) has been prepared for soil contamination. It should be noted that the presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health.

8.2 Outline Risk Assessment

The Conceptual Site Model identified the following source-pathway-receptor linkages in respect of potential contaminants in soil:

Source	Pathway	Receptor
Contaminants in soil:	Ingestion, dermal contact, inhalation Soils, soil-borne dusts, and homegrown vegetables.	End users
	Ingestion, dermal contact, inhalation Soils, soil-borne dusts	Adjacent land users
Made Ground / infilled former pond	Plant Uptake, phytotoxic effects	Soft landscaping
	Chemical attack by organic contaminants on plastics.	Building materials
	Leaching, downward and lateral migration	Surface water
	Leaching, downward and lateral migration	Groundwater

8.3 End Users

8.3.1 Screening Values

Several different partly overlapping schemes are currently in use in the UK, based on the Environment Agencies CLEA Model but with differing toxicological parameters. For the purpose of this report these schemes have and have been applied in the following hierarchy:

- Suitable For Use levels (S4UL) recently published by LQM in association with the CIEH.
- Category 4 Screening Levels (C4SL) recently published by the DEFRA and CL:AIRE.

The soil chemical analysis results have been compared against respective screening values for Residential land uses.

For contaminants where the respective screening value is dependent on Soil Organic Matter (SOM), the corresponding value for 2.5% was used (the arithmetic mean SOM value for the Made Ground was 4.28%).

The results have been compared individually against the respective screening criteria and a summary of those exceeding the respective values is given below.

Determinand	Screening Value (mg/kg)	Results exceeding screening value
Benzo(b)fluoranthene	3.3	WS1 0.10m (9.4mg/kg)
Benzo(a)pyrene	2.7	WS1 0.10m (8.4mg/kg)
Di-benzo(a,h)anthracene	0.28	WS1 0.10m (1.1mg/kg)
Arsenic	37	WS6 1.50m (65 mg/kg)
Beryllium	1.7	WS1 0.10m (1.9mg/kg) WS6 1.50m (4.2 mg/kg)
Lead	200	WS1 0.10m (1400mg/kg) WS6 1.50m (4900 mg/kg)
Mercury	1.2	WS6 1.50m (11 mg/kg)

8.3.3 Asbestos

Four samples of Made Ground were screened for the presence of Asbestos, and a summary of the results is presented below.

Soil	Sample	Asbestos present	Type	Quantification
Made Ground	WS1 0.10m	None detected	-	-
	WS3 0.50m	None detected	-	-
	WS5 0.40m	None detected	-	-
	WS6 1.50m	Detected	Chrysotile (Hard / cement type material)	2.57%

8.4 Adjacent Land Users

Surrounding land uses were identified to comprise residential properties to the north and east, analogous with the proposed development on site. With reference to section 8.2, a possible risk was posed to human health from PAHs and some heavy metals. It is therefore concluded that the soils on this site pose a possible significant risk to surrounding residential land uses. Further detailed risk assessment is recommended in this respect.

8.5 Soft Landscaping

A number of documents include guidance on screening levels of phytotoxic contaminants within soils, including:

- BS3882:2015 "Specification for topsoil and requirements for use" (although stipulated as not to be used in contaminated land risk assessment).

- ICRL in publication 70/90 1990 'Notes on the Restoration and Aftercare of Metalliferous Mining Sites for Pasture and Grazing' (although indirectly withdrawn) (where marked *).

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised on the following table, together with the respective adopted screening values for plant growth. The results of the chemical analysis were evaluated singularly without the use of statistical tools.

Determinand	Phytotoxicity Value (mg/kg)			Results in excess of screening value
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	<200	<200	<300	WS1 0.10m (420mg/kg), WS6 1.50m (1200mg/kg)
Copper	<100	<135	<200	WS1 0.10m (140mg/kg), WS6 1.50m (410mg/kg)
Nickel	<60	<75	<110	WS1 0.10m (75mg/kg),
Cadmium *	50			None
Arsenic *	1,000			None

On this basis, it was concluded that elevated zinc, copper and Nickel in the vicinity of WS1 and WS6, might pose a risk of phytotoxic effects on plant growth. Therefore, remedial measures were considered necessary in this respect.

8.6 Building Materials

Recommendations with respect to Sulphate and buried concrete are made in section 7.7. It is noted that no onerous precautions in this respect are warranted.

The risk of chemical attack on water supply pipework has been assessed following the general Principals set out in the joint Water UK/HBF *Contaminated Land Assessment Guidance* dated January 2014. A summary of the main chemical criteria is reproduced below.

Test group (in mg/kg)	Polyethylene (PE)	Polyvinyl Chloride (PVC)	Metal or Aluminium Barrier
VOC's	0.5	0.125	Pass
VOC's + BTEX & MTBE	0.1	0.03	Pass
SVOC's (excl. PAH's etc.)	2.0	1.4	Pass
SVOC's + Phenols	2.0	0.4	Pass
SVOC's + Cresols & Chlorinated Phenols	2.0	0.04	Pass
Mineral oil EC11-20	10	Pass	Pass
Mineral oil EC21-40	500	Pass	Pass

The concentrations of each determinand were below the respective threshold standards, and therefore any type of potable water supply pipework appears to be appropriate. It is recommended that the local water utility company is consulted to confirm this assessment.

Ethers, nitrobenzene, ketones, aldehydes and amines were not suspected. Redox potential and Conductivity should be checked where metal pipework is to be installed. Aluminium barrier pipework is acceptable under all conditions. No pipework should be laid where there is evidence of free product.

8.7 Controlled Waters

The conceptual site model identified a potential pollutant linkage in terms of contaminants within soils leaching out through the migration of water through the soil profile, entering the groundwater table and in turn impacting on water resources.

For a preliminary tier 1 risk assessment, the results of the soil-leachate analysis have been compared directly to the standards given under the UK Water Supply (Water Quality) Regulations 2016 for Drinking Water Standards (DWS) and the Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015 – Environmental Quality Standard (EQS). Results exceeding the respective thresholds are summarised below.

Determinand	EQS (mg/l)	DWS (mg/l)	Exceedances
Chromium	0.0047	0.05	WS5 0.40m 0.0052 mg/l
Copper	0.001	2	WS5 0.40m 0.017 mg/l
Lead	0.0012	0.01	WS5 0.40m 0.011 mg/l
Zinc	0.0109	-	WS5 0.40m 0.012 mg/l

8.8 Conclusions

The ground conditions (deep Made Ground / Alluvium) were found to vary significantly from those initially anticipated.

The results of the initial chemical analysis indicated elevated levels of PAHs, arsenic, beryllium, lead and mercury within the Made Ground at WS1 (in the north) and WS6 (in the south) with asbestos fragments also noted at WS6, which may pose a potential risk to end users and adjacent land users.

Elevated concentrations of phytotoxic contaminants (zinc, copper and nickel) were found within the Made Ground at WS1 and WS6 which may pose a potential risk to plant growth.

Further investigation is therefore considered necessary to delineate areas of concern prior to the determination of any specific Remediation proposals this should include testing within each of the proposed gardens / soft landscaping areas.

Leachate testing undertaken as part of the WAC testing indicated a potential risk to controlled waters from leachable heavy metals (chromium, copper, lead and Zinc). It is recommended that the further phase of site investigation includes standpipes installed into the groundwater to allow water samples to be taken for laboratory analysis.

9.0 PRELIMINARY GROUND GAS RISK ASSESSMENT

9.1 General

The risks associated with ground gases in respect of end users have been evaluated in general accordance with BS8485:2015 *Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings* and CIRIA C665 (2007) entitled *Assessing Risks Posed by Hazardous Ground Gases to Buildings*.

9.2 Outline Risk Assessment

The Conceptual Site Model identified the following source-pathway-receptor linkages in respect of potential ground gases and vapours:

Source	Pathway	Receptor
Contaminants existing as ground gases arising from: deep Made Ground / infilled ground / Alluvium	Inhalation	End users
		Adjacent land users

It should be noted that the presence of a gas does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk.

Concentrations of ground gases recorded may be affected by a variety of factors including atmospheric pressure, groundwater, rainfall and temperature, as well as the gas generation potential of the source. Tables 5.5a and 5.5b of CIRIA C665 prescribe typical periods and frequency of monitoring visits required, as summarised below (after CIRIA C665 Tables 5.5a and 5.5b):

Generation potential ^{1,2}		Very Low	Low	Moderate	High	Very High
Example		Inert Made Ground	Alluvium or dock silt	Pre-1960 landfill	Shallow mine workings	Post '60's domestic landfill
Sensitivity of development	Low	4/1	6/2	6/3	12/6	12/12
	Moderate	6/2	6/3	9/6	12/12	24/24
	High	6/3	9/6	12/6	24/12 ³	24/24 ³
Notes: 1 - First digit is number of visits and second digit is number of months, e.g. 9/6 means nine visits in total over a period of 6 months 2 - At least two sets of readings should ideally be undertaken during low and falling atmospheric pressure <1000mB 3 - High sensitivity development on high gas hazard land is not normally acceptable unless the source is removed or otherwise treated.						

Based on the results and the requirements of BS8485:2015, the monitoring visits undertaken to date and number of standpipes currently at the site are not sufficient to characterise the gas situation likely to be present at the site.

9.2 End Users

Preliminary ground gas monitoring found elevated levels of Carbon Dioxide (up to 7.0%) were recorded in the single standpipe installed at WS6.

BS8485:2015 cites a series of gas threshold concentrations and suggested protective measures for each respective Characteristic Situation, as summarised on the following tables.

CS	Hazard Potential	CH ₄	CO ₂	Flow	Gas Screening Value
1	Very low	<1.0%	<5.0%	-	<0.07l/hr
2	Low	-	-	<70l/hr	<0.7l/hr
3	Moderate	-	-	-	<3.5l/hr
4	Moderate to high	-	-	-	<15l/hr
5	High	-	-	-	<70l/hr
6	Very high	-	-	-	>70l/hr

The results obtained to date corresponds to a gas Characteristic Situation 2. This is tentative pending additional standpipes and monitoring visits.

9.3 Adjacent Land Users

Land uses to the north and east of the site were identified to comprise residential properties. With reference to section 9.1, the source of gases was identified as posing a possible significant risk to the on site development on site. Therefore, a significant risk is posed to adjacent land users.

9.4 Conclusions

Further gas monitoring should be undertaken to complete the assessment of potential gas risk to end users / adjacent land users.

It is recommended that three further gas monitoring positions are installed with response zones within the deeper Alluvium as well as the shallower Made Ground.

10.0 PRELIMINARY WASTE ASSESSMENT

10.1 General

Waste may be defined as any substance or object in Annex 1 of the Waste Framework Directive² which the holder discards, intends to discard, or is required to discard. Subject to certain provisions, soils may either be handled as either:

- Non-Waste, and re-used (on or off-site), or
- Waste, and disposed of (to a waste management facility).

The waste producer has a legal duty of care to ensure that waste materials are handled properly and sent to the appropriate licenced facility. Further inspection, testing, segregation etc will be required on site, and the advice of a suitably qualified consultant sought wherever necessary. Substantial tax penalties and fines are being levied by the regulators. The advice contained in this section is preliminary only.

10.2 Non-Waste

Soils may potentially be handled as Non-Waste and re-used on site (or on other sites) in accordance with various protocols such as those published by the EA³ or CL:AIRE⁴. Typical requirements include:

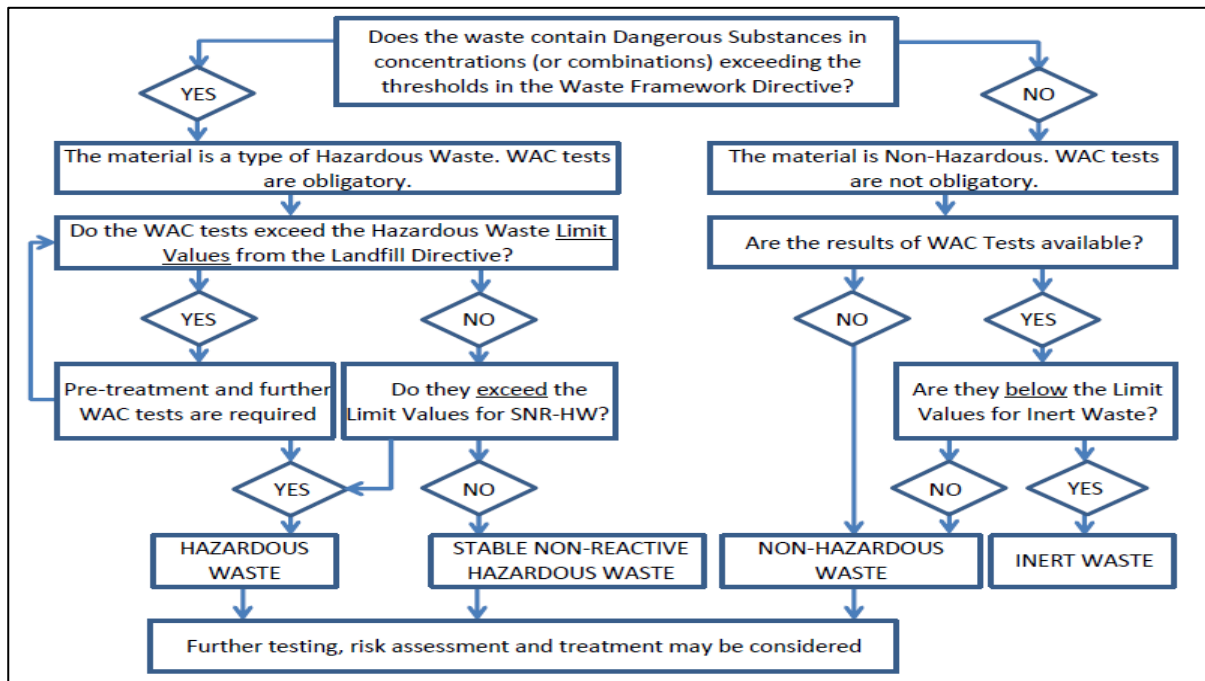
- That the re-use of material will not endanger human health, cause nuisance, or harm the wider environment (controlled waters, ecosystems, etc.)
- That there is there a clear Environmental benefit from the activity, and that the waste is being used as a substitute for non-waste material.
- The materials are suitable for use in terms of chemical and geotechnical parameters without further treatment.
- The holder is certain that the materials will be used in a safe manner, and only the necessary quantities of materials are being used.
- Where the activities do not require a waste management licence (e.g. landfilling).
- A Waste Recovery Plan (EA) or Materials Management Plan (CL:AIRE) are produced and followed, and audited in a Verification Plan.

The Made Ground is considered to be unsuitable for re-use on site on account of elevated PAHs and heavy metals (also noted as being leachable).

Soil	Suitability for re-use on site			Notes
	Landscaping	Hard cover	Not suitable	
Made Ground			✓	Elevated PAHs, heavy metals (also leachable) and Asbestos
Natural Soils	✓	✓		No significant risks identified

10.3 Waste Disposal

Where materials are not re-used they must be handled as Waste, and must be sent to a licenced waste management facility. The classification of waste is prescribed under the Waste Framework Directive⁵ and the Landfill Directive⁶, as summarised below. Different waste management facilities may also have specific acceptance criteria, and their advice should be sought.



The results of the soil analysis have been classified as follows:

Made Ground	Hazardous		Non Hazardous		Details
	Hazardous	Stable Non-Reactive	Non-Hazardous	Inert	
WS1 0.10m	✓				Preliminary classification as Hazardous (elevated lead). WAC testing required
WS3 0.50m			✓		Preliminary classification as Non Hazardous . No WAC testing carried out.
WS5 0.40m				✓	Preliminary classification as Non Hazardous . WAC testing indicated an Inert Waste Classification
WS6 1.50m	✓				Preliminary classification as Hazardous (elevated lead and zinc).

Further WAC testing may be considered for soils identified as Non-Hazardous, as the tests may enable those materials to be re-classified as Inert and therefore represent a potential saving on disposal costs.

With reference to the current List of Wastes (formerly European Waste Catalogue), waste soils and stone derived from construction and demolition sites may be disposed of under either of the following codes as appropriate:

Waste	Code	Description
Hazardous	17 05 03*	soil and stones containing dangerous substances
Non-Hazardous	17 05 04	soil and stones other than those mentioned in 17 05 03

(Note, the asterix is a Mirror Entry, as defined in the List of Wastes, conferring the relationship with the non-hazardous code 17-05-04).

REPORT CONDITIONS

Interpretation of ground conditions inherently depends on the conditions revealed by a limited data set. Land Science takes all reasonable professional care in preparation of this report, using current standards and industry best practice. However, we accept no liability whatsoever expressed or implied in respect of:

- The scope, extent or design of an investigation.
- Any conditions not directly revealed by the investigation.
- Published standards or methodologies used or adopted in this report.
- The opinion or position of any other party including any regulator, authority or stakeholder.
- Any dispute, claim or consequential loss arising from any finding or result in this report.
- Any matter other than ground conditions in the area under investigation.

Information contained in this report is intended for the use of the Client and his agents for the purposes set out, and we accept no liability for its use by other party or for any other purpose.

This report makes no representation on other matters such as ecology, agronomy, arboriculture, structural condition, building materials, boundaries and planning etc.

No aspect of this report should be taken as a guarantee whatsoever that a site is free of pollution, contamination or hazardous materials.

The levels of mobile liquid or gaseous contaminants may vary over time. Further or additional investigation may be necessary.

GLOSSARY OF TERMS

ACM	Asbestos Containing Material
BGS	British Geological Survey
BRE	Building Research Establishment
BSI	British Standards Institute
CBR	California Bearing Ratio
CDM	Construction Design and Management regulations
CIRIA	Construction Industry Research and Information Association
CL:AIRE	Contaminated Land: Applications in Real Environments
CLEA	Contaminated Land Exposure Assessment model
CLR	Contaminated Land Remediation report
CLR11	Model Procedures for the Management of Land Contamination, DEFRA & EA, 2004
COSHH	Control of Substances Hazardous to Human Health regulations
COMAH	Control of Major Accident Hazards regulations
CSM	Conceptual Site Model
DEFRA	Department for Environment, Food and Rural Affairs
DETR	Department for Environment, Transport and the Regions
DQRA	Detailed Quantitative Risk Assessment
DP	Dynamic Probe
EA	Environment Agency
EQS	Environmental Quality Standards
F.O.C	Fraction of Organic Carbon
GAC	Generic Assessment Criterion
GQRA	Generic Quantitative Risk Assessment
HSE	Health and Safety Executive
ICRCL	Inter-departmental Committee for the Redevelopment of Contaminated Land
IPC	Integrated Pollution Control
IPPC	Integrated Pollution Prevention and Control
MBGL	Meters Below Ground Level
NHBC	National House Building Council
NIHHS	Notification of Installations Handling Hazardous Substances
OD	Ordnance Datum
PAH's	Polycyclic Aromatic Hydrocarbons
PBET	Physiological Based Extraction Testing
PHE	Public Health England
PID	Photo-Ionisation Detector
PQRA	Preliminary Quantitative Risk Assessment
PSD	Particle Size Distribution Test
RMS	Remediation Method Statement
SGV	Soil Guideline Value
SOM	Soil Organic Matter
SPZ	Source Protection Zone
SPT	Standard Penetration Test
SSSI	Sites of Special Scientific Interest
ST-WEL	Short Term Workplace Exposure Limit
SVOC's	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TRRL	Transport Road Research Laboratory
TWA-WEL	Time Weighted Average Workplace Exposure Limit
UK HBF	United Kingdom House Building Federation
VOC's	Volatile Organic Compounds
WAC	Waste Acceptance Criteria

ACCOMPANYING NOTES

Screening Suites

The LS1 routine screening suite is based broadly upon determinands listed within the former ICRL guidance note 59/83 2nd edition 1987, CLR publication CLR8, and Environment Agency R&D66 publication. Additional testing for stone and moisture content, fraction of organic carbon ('foc'), and pH value, were also undertaken. Given that Sulphate is not a priority in terms of human health, water soluble Sulphate is analysed instead in order to assess the risks posed to the built environment.

Site Workers

Site managers are responsible for the safety of persons in their employ under a variety of instruments including the CDM regulations and Health & Safety at Work Act. In terms of working on contaminated sites, guidance can be sought from the CIRIA publication entitled "A Guide for Safe Working on Contaminated Sites". Any work in confined spaces should only be carried out following appropriate risk assessment and following suitable safety protocols in accordance with the HSE guidance entitled "Work in Confined Spaces". A detailed risk assessment can be prepared in this respect, but is outside the scope of this appointment.

Discovery Strategy

Unexpected soil conditions may be encountered during the process of site demolition and construction. Examples may include oily pockets within the soil, pockets of cement boarding or fibrous materials within the soil, black ashy materials, soils exhibiting strong odours, brightly coloured materials, and former structures or brickwork.

Should previously undiscovered contamination be encountered during construction by the ground worker's, this should be reported to the Geo-Environmental Consultant immediately in order that any necessary inspection may be made. All site workers should be made aware of their responsibility to observe, report, and act on any potentially suspicious or contaminated materials they may encounter.

Primary and Secondary Sources

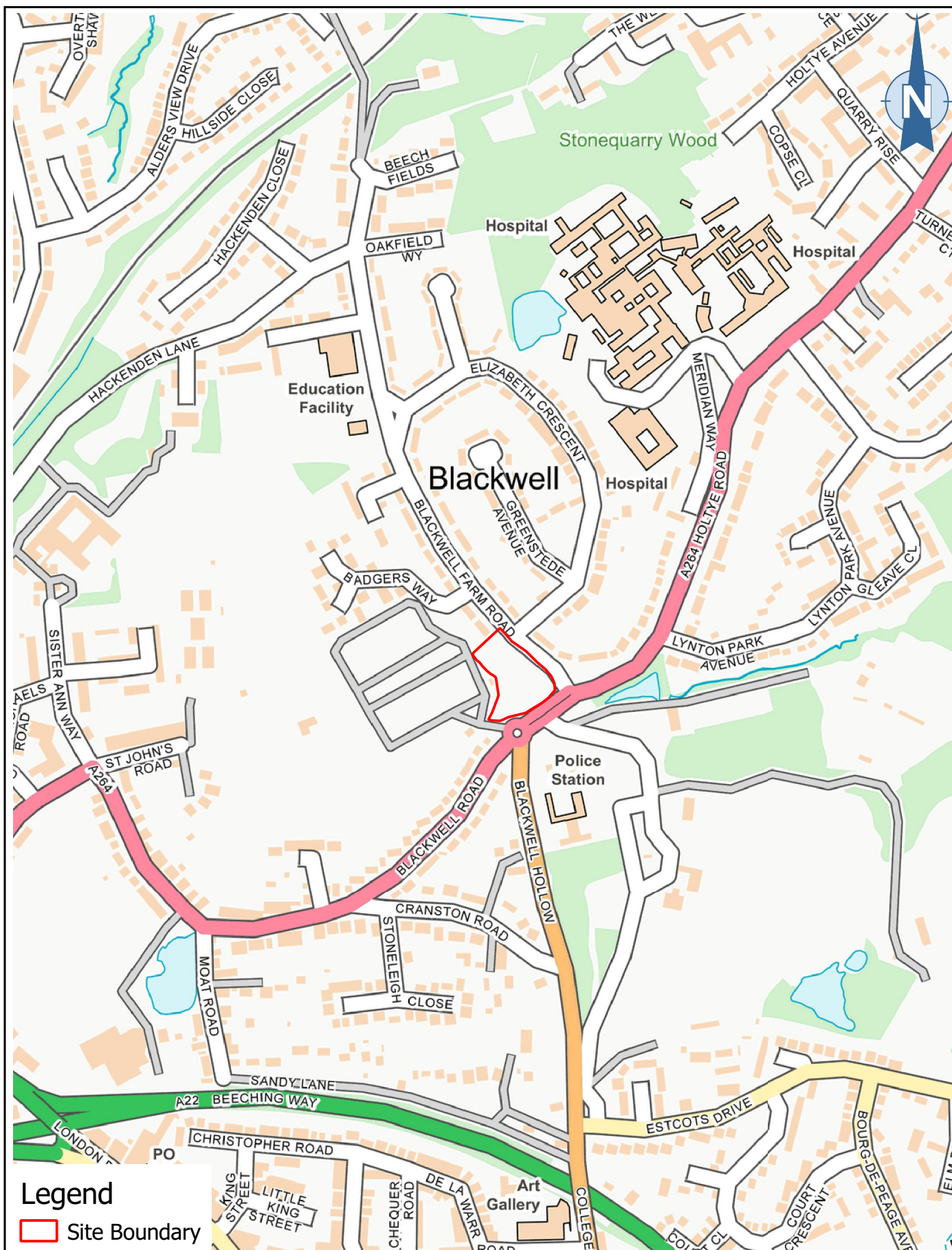
The secondary sources used in this report are: soil, groundwater and ground gases, as summarised below:

Secondary source	Summary
Soil	Contaminants bound into or entrained with the soil matrix, for instance ashes, clinkers, bituminous materials, asbestos containing materials, etc. Also, soils may become contaminated by other activities, such as leaking chemical storage, drainage and the like, becoming bound into the soil mineralogy or

	organic matter. Soils may also generate soil-borne dusts and volatile organic compounds may generate organic vapours.
Groundwater	Contaminants may dissolve into pore water which in turn can percolate downwards into the groundwater table. Rapid discharge of fluids may also enter groundwater directly. Organic compounds may form separate light or dense non-aqueous phase liquids upon or at the base of the water column. Organic contaminants may generate organic vapours.
Ground gases	Organic matter, including wastes, hydrocarbons and other compounds, will decay through microbial action. This will primarily release Carbon Dioxide but may also release Methane under anaerobic conditions. This may be an issue in natural soils (e.g. alluvium and dock silt) in man-made soils (e.g. landfill sites and filled ground) and other environments (e.g. mine workings).

REFERENCES

- ¹ Radon: Guidance on protective measures for new buildings, BRE Report BR 211, 2015 2ND edition
- ² Revised EU Waste Framework Directive 2008 2008/98/EC [transposed into English law under The Waste (England and Wales) Regulations 2011]
- ³ Defining Waste Recovery - Permanent Deposit of Waste on Land, EPR13 v1.0, EA 2010
- ⁴ The definition of waste: Development Industry Code of Practice, v2, CL:AIRE 2011
- ⁵ Revised EU Waste Framework Directive 2008 2008/98/EC [transposed into English law under The Waste (England and Wales) Regulations 2011]
- ⁶ European Community (EC) Directive 1999/31/EC [transposed into English law under the Landfill (England and Wales) Regulations 2002]



		Title: Site Location		Reference: LS3734	
		Project: Blackwell Farm Road, East Grinstead, RH19 3JW		Figure: 1	
		Client: The Guinness Partnership Limited		Date: 07/08/2018	
		Prepared by: RL	Checked by: MR	Version: 1	Sheet: 1 of 1

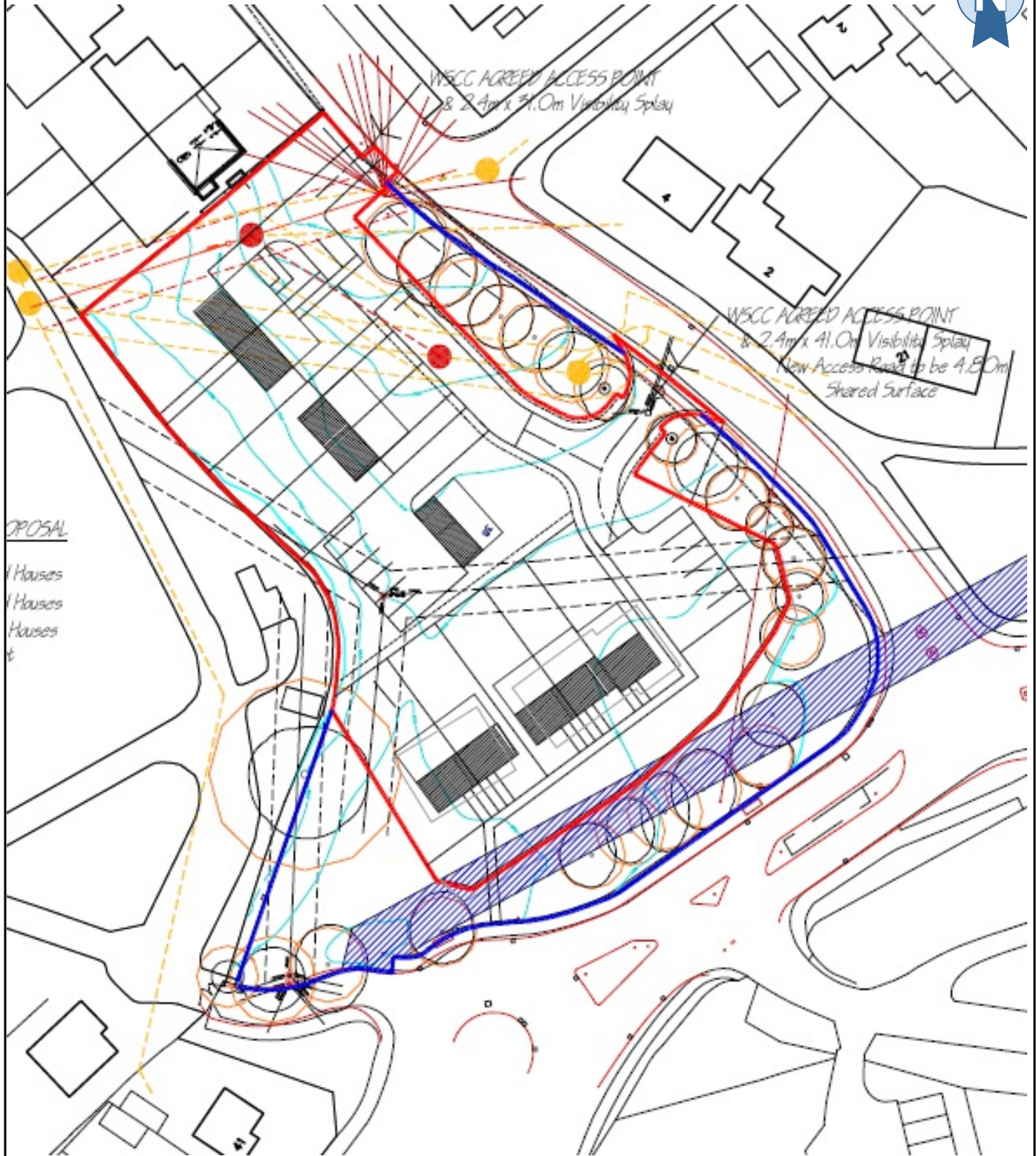


Legend

-  Window Samplers
-  Actual DCPs
-  Site Boundary



Title: Exploratory Hole Location Plan			Reference: LS3734
Project: Blackwell Farm Road, East Grinstead, RH19 3JW			Figure: 2
Client: Guinness Partnership Limited			Date: 07/08/2018
Prepared by: RL	Checked by: MR	Version: 1	Sheet: 1 of 1



	Title: Proposed Development Layout			Reference: LS3734
	Project: Blackwell Farm Road, East Grinstead, RH19 3JW			Figure: 3
	Client: Guinness Partnership Limited			Date: 07/08/2018
	Prepared by: RL	Checked by: MR	Version: 1	Sheet: 1 of 1

APPENDIX A



Photograph 1 - view looking southwards across the site from the northern site boundary

	TITLE: Site Photographs			REF: LS3734
	PROJECT: Blackwell Farm Road, East Grinstead, RH15 3JW			PHOTOS 1
	CLIENT: The Guinness Partnership Limited			DATE: 19/09/2018
	CHECK: MR	CHECK: ET	VERSION V1	SHEET: 1 OF 1



Photograph 2 - View looking northwards from the middle of the site



Photograph 3: WS1 arisings



Photograph 4: WS2 arisings



Photograph 5: WS3 arisings



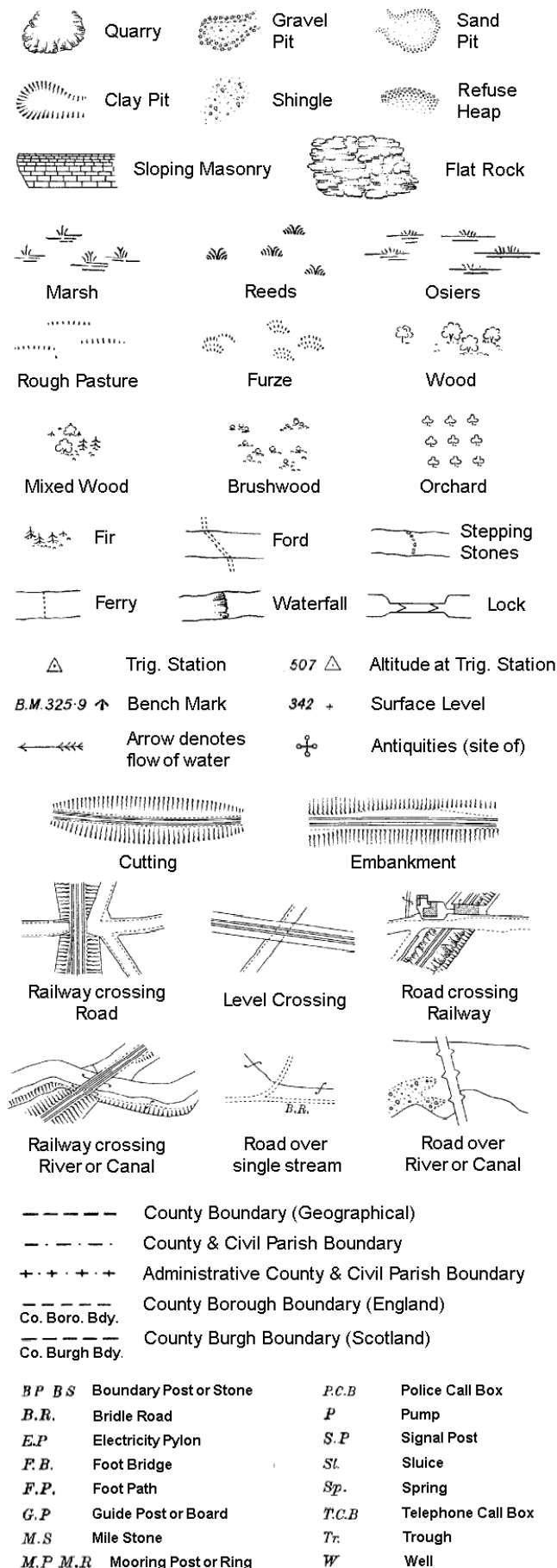
Photograph 6: WS4 arisings

	TITLE: Site Photographs			REF: LS3734
	PROJECT: Blackwell Farm Road, East Grinstead, RH15 3JW			PHOTOS 2 to 6
	CLIENT: The Guinness Partnership Limited			DATE: 19/09/2018
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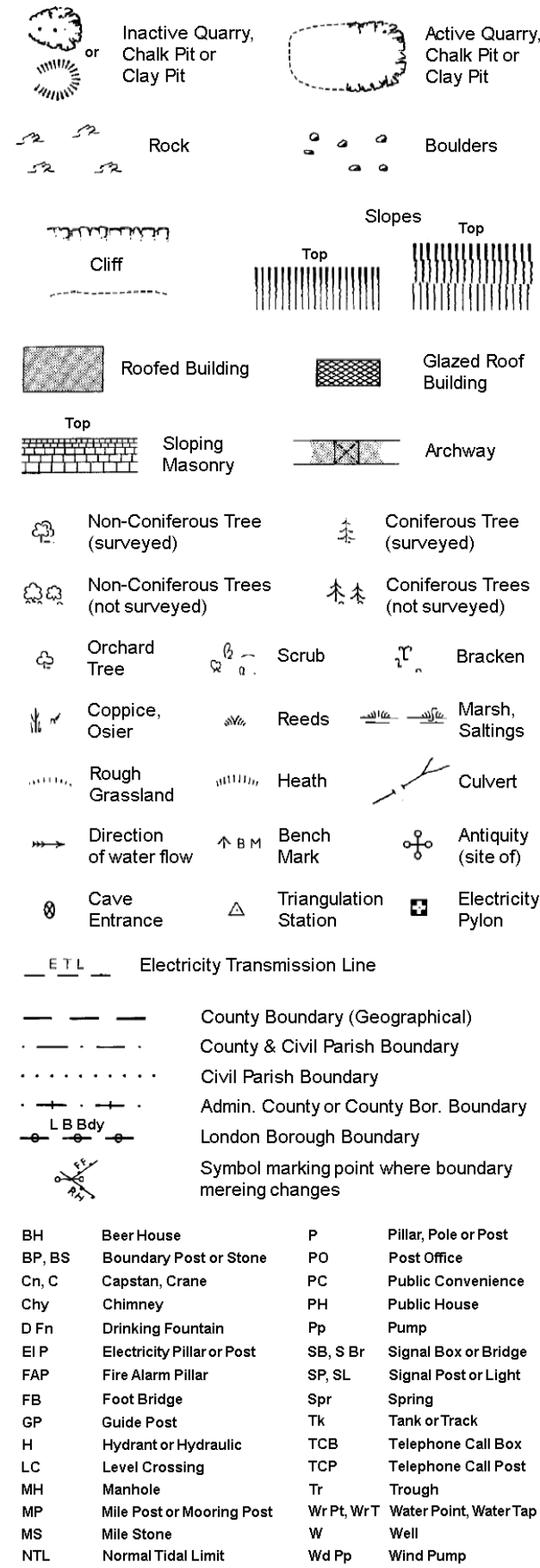
APPENDIX B

Historical Mapping Legends

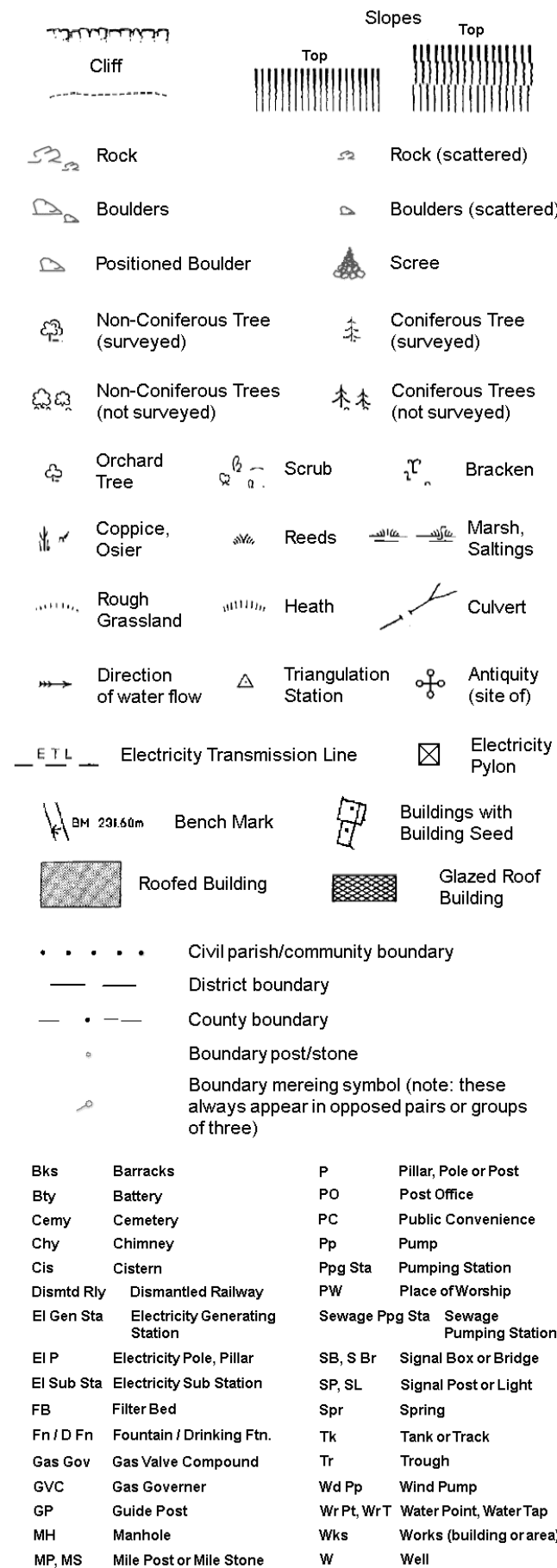
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

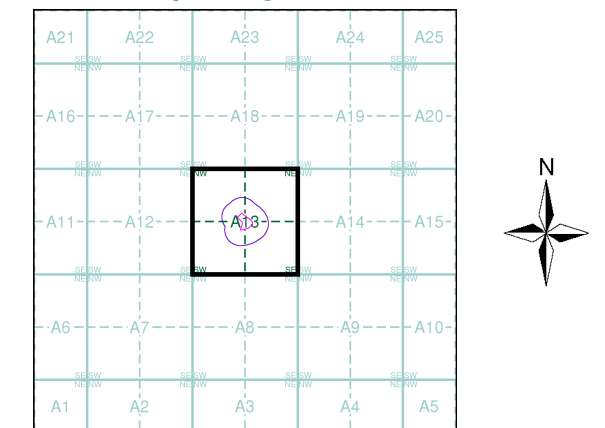


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Historical Mapping & Photography included:

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Sussex	1:2,500	1870	2
Surrey	1:2,500	1873	3
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Sussex	1:2,500	1898	5
Sussex	1:2,500	1910	6
Surrey	1:2,500	1913	7
Sussex	1:2,500	1931	8
Ordnance Survey Plan	1:2,500	1956 - 1964	9
Ordnance Survey Plan	1:1,250	1956 - 1979	10
Ordnance Survey Plan	1:2,500	1962 - 1964	11
Ordnance Survey Plan	1:1,250	1964 - 1982	12
Ordnance Survey Plan	1:1,250	1966 - 1989	13
Ordnance Survey Plan	1:2,500	1967	14
Ordnance Survey Plan	1:1,250	1974	15
Supply of Unpublished Survey Information	1:2,500	1974	16
Supply of Unpublished Survey Information	1:1,250	1974 - 1975	17
Additional SIMs	1:1,250	1980	18
Ordnance Survey Plan	1:1,250	1983	19
Large-Scale National Grid Data	1:1,250	1993	20
Large-Scale National Grid Data	1:1,250	1994 - 1995	21
Large-Scale National Grid Data	1:1,250	1995	22
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Historical Aerial Photography	1:2,500	1999	24

Historical Map - Segment A13



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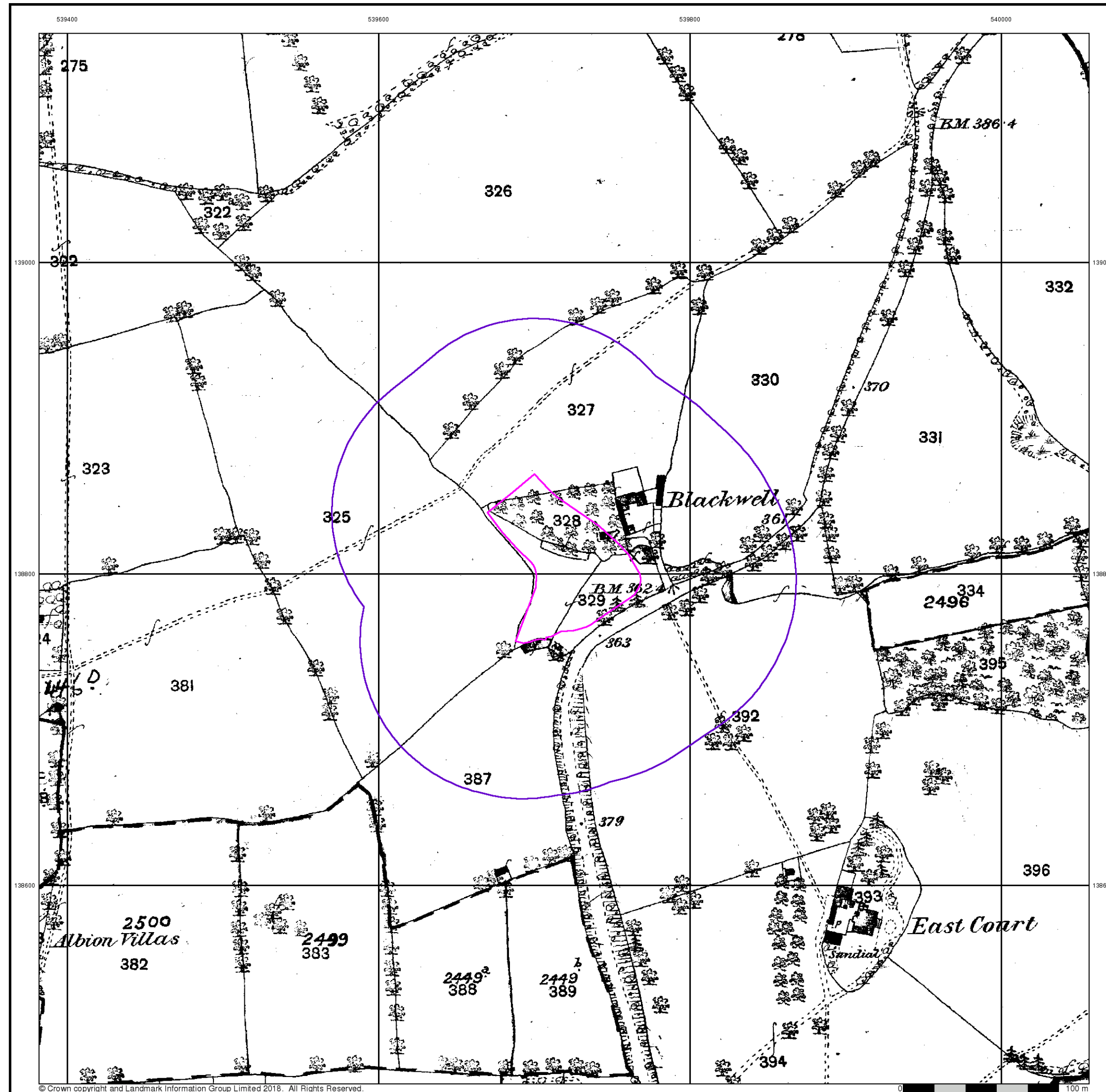
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Site Details

Holtye Road, East Grinstead, RH19 3HT

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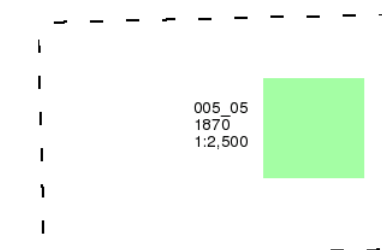
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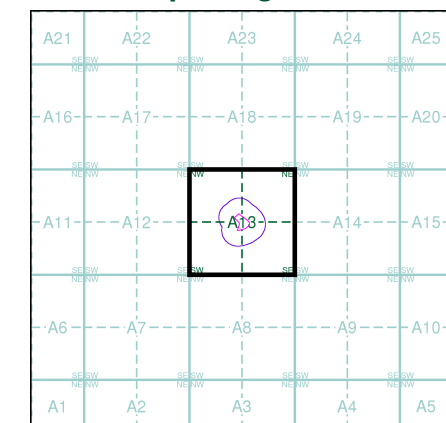
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Map Name(s) and Date(s)



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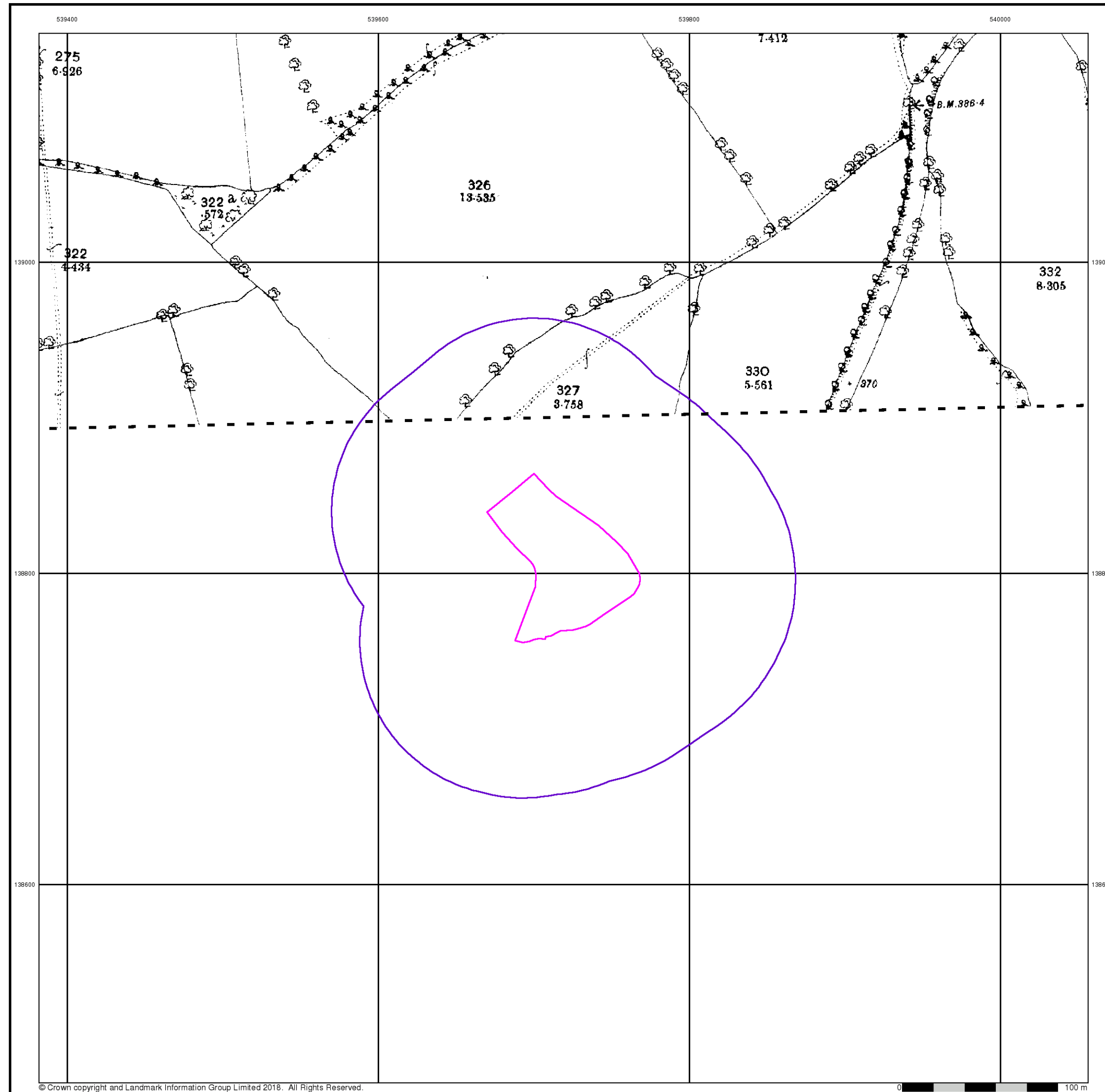
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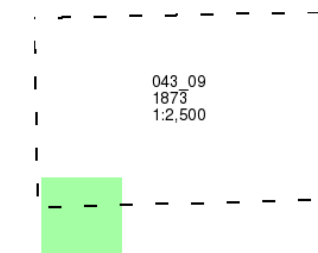
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Published 1873

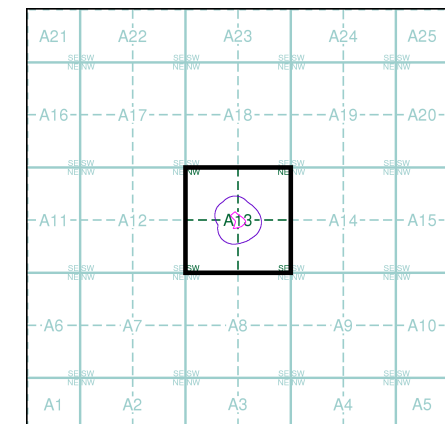
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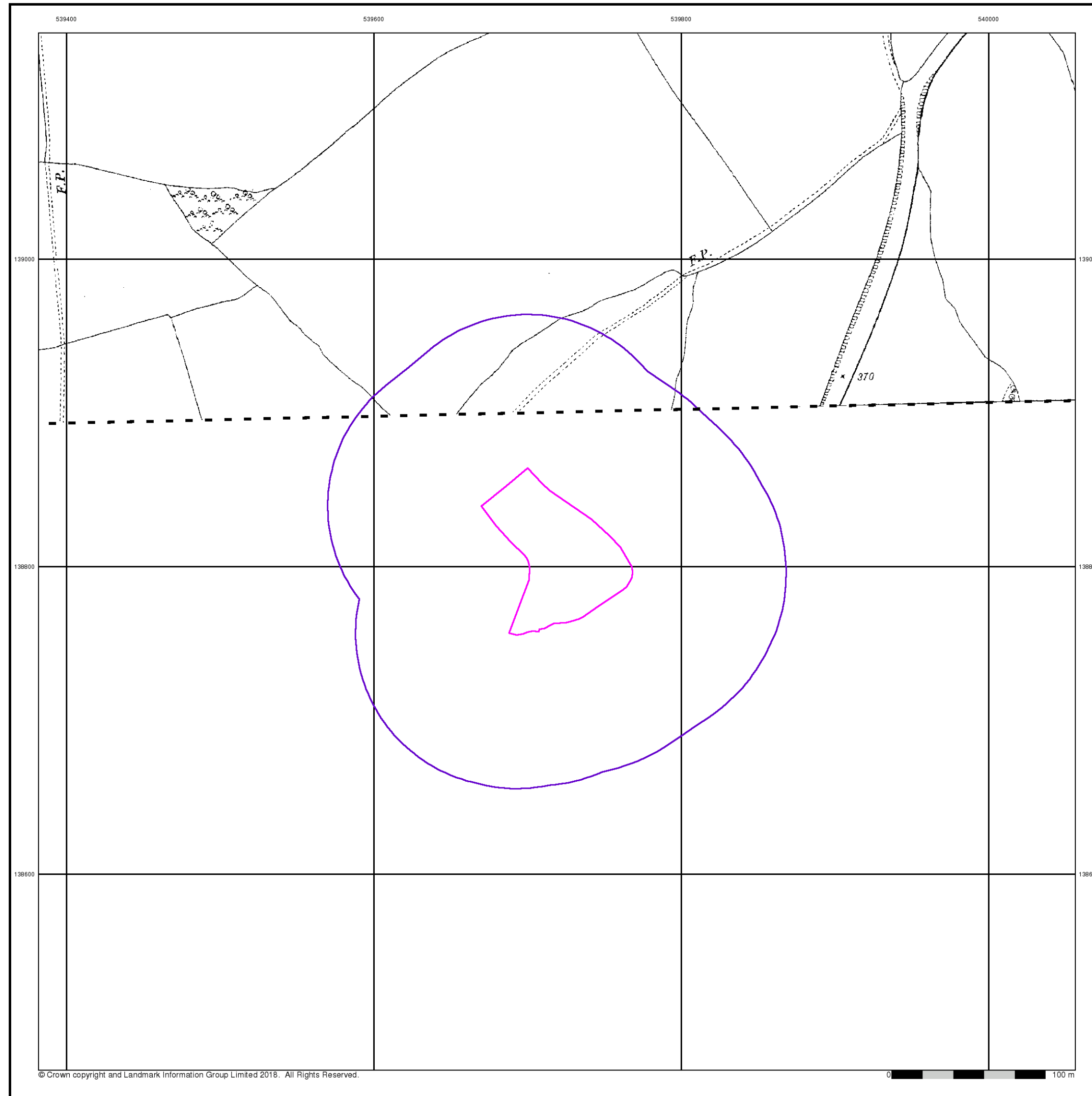
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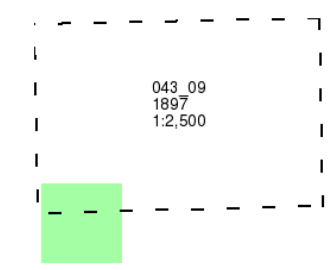
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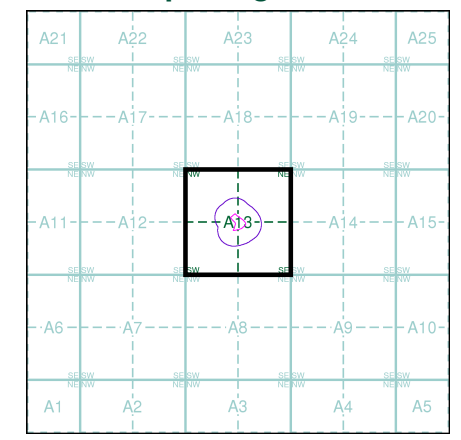
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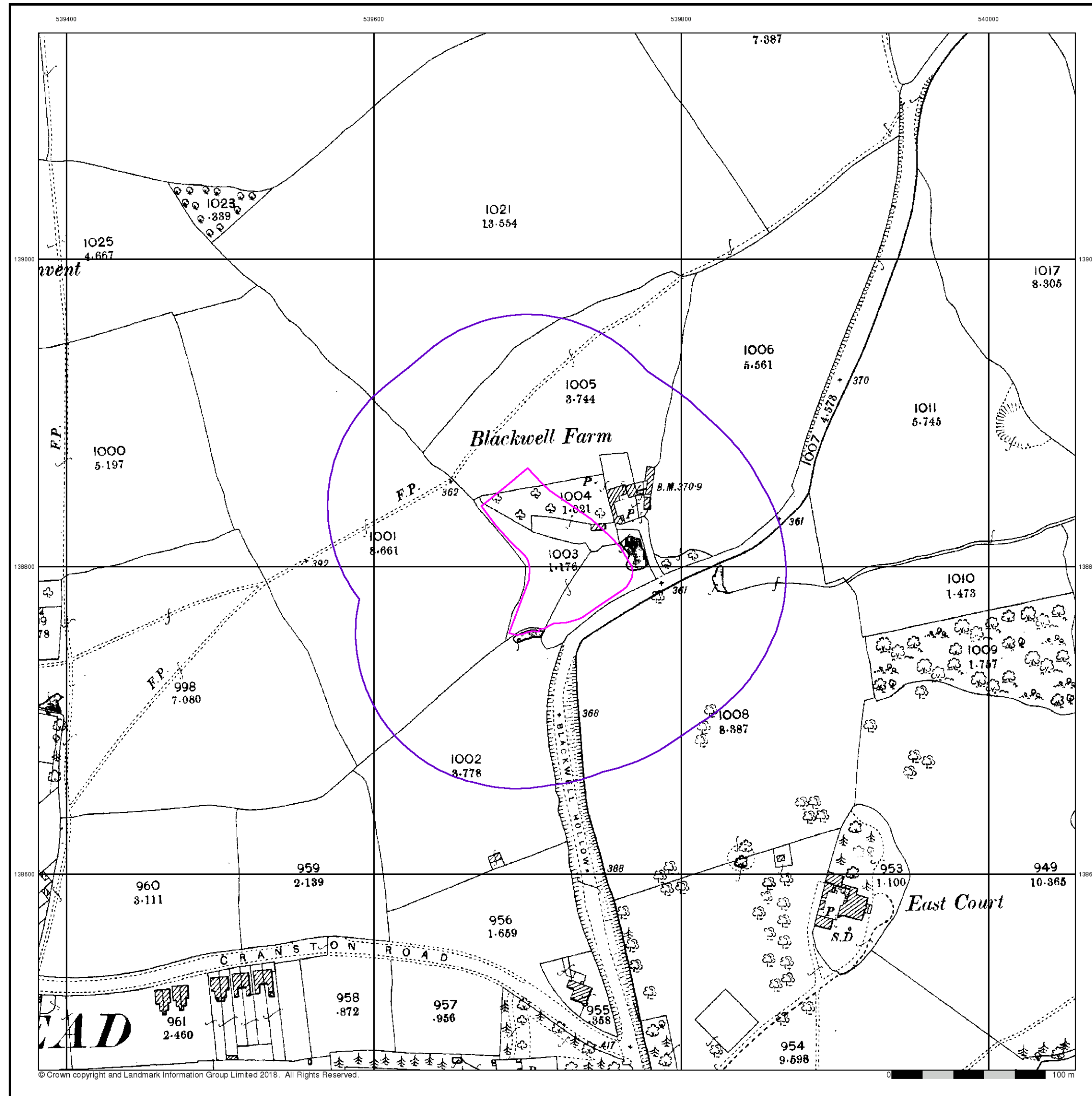
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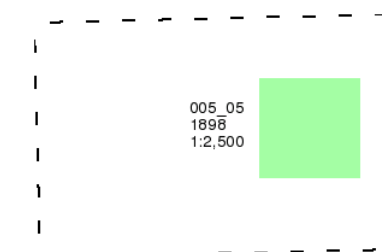
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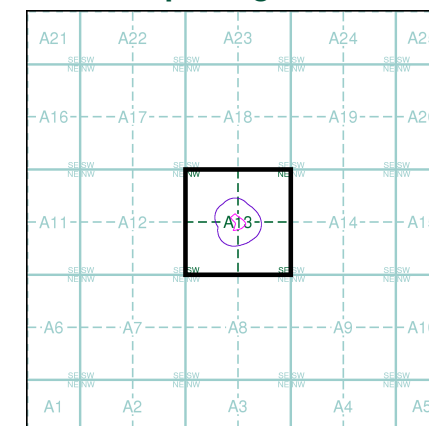
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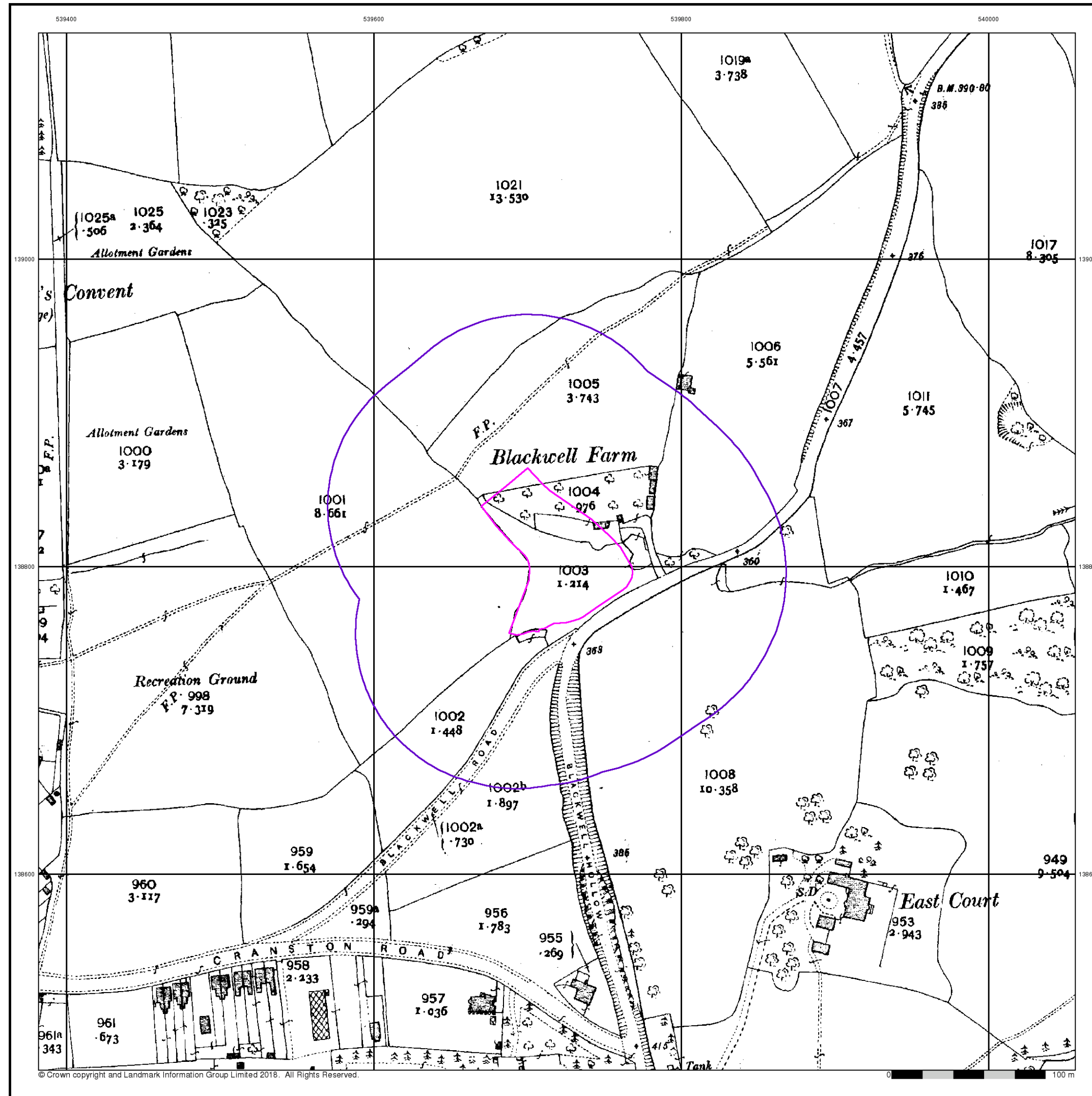
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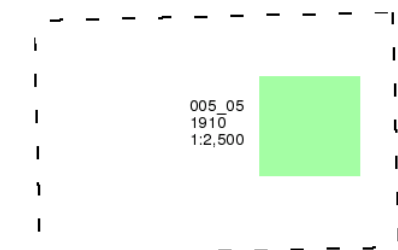
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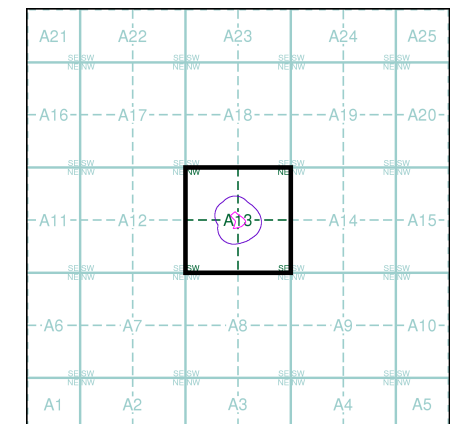
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Historical Map - Segment A13



Order Details

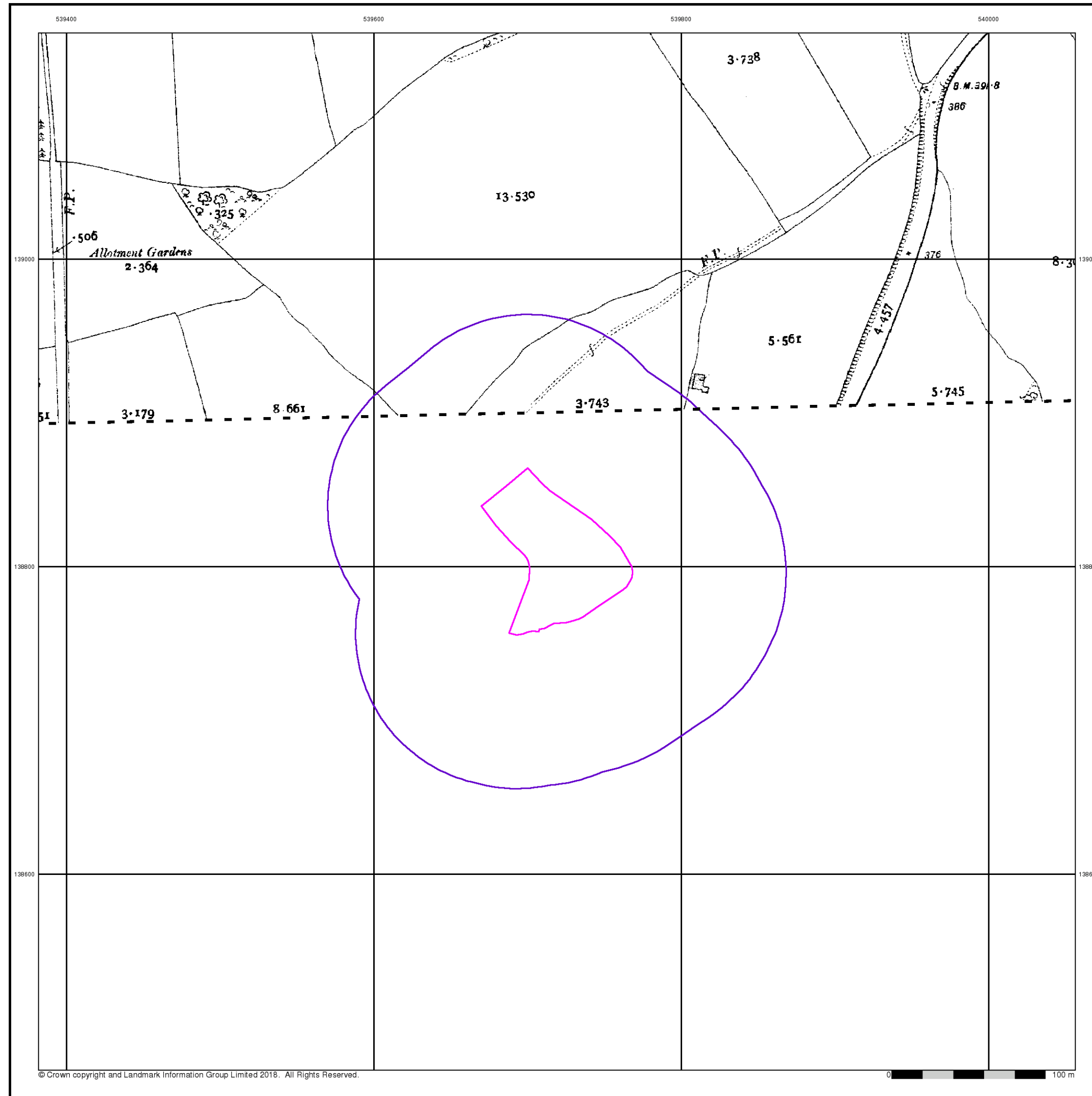
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Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

Holtys Road, East Grinstead, RH19 3HT



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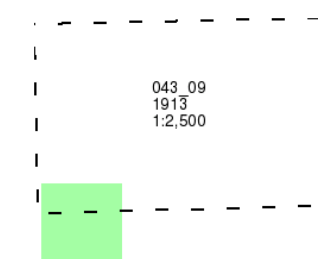
Surrey

Published 1913

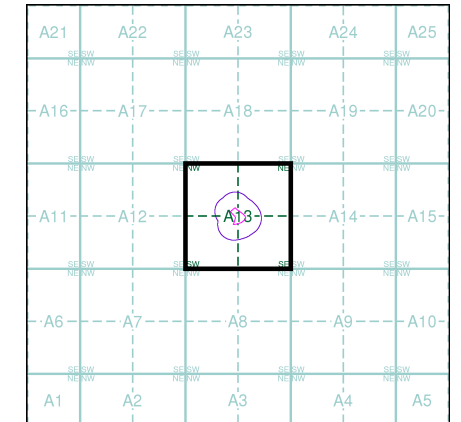
Source map scale - 1:2,500

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

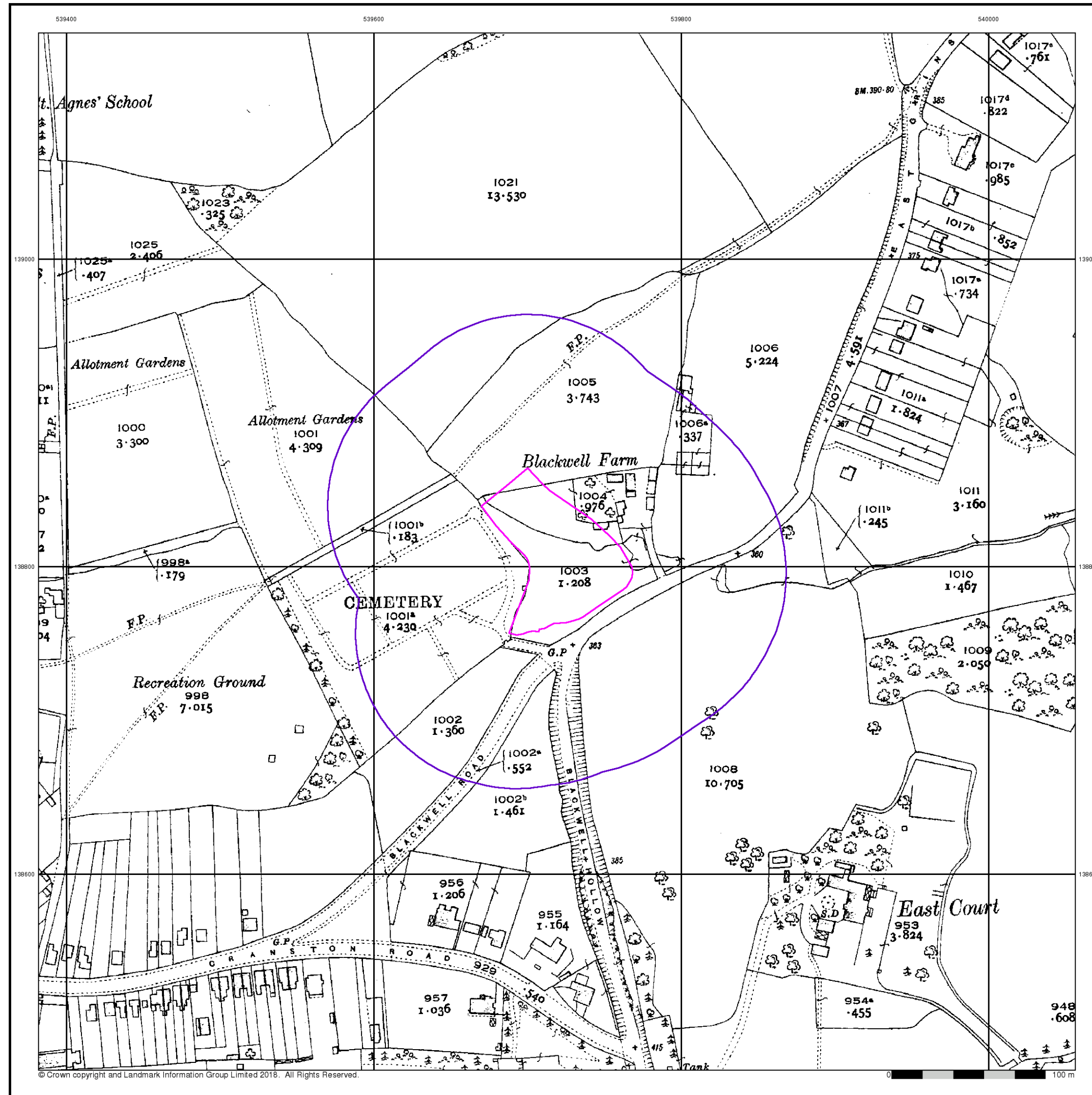
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Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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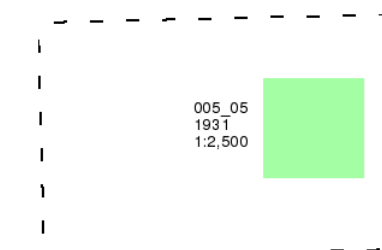
Sussex

Published 1931

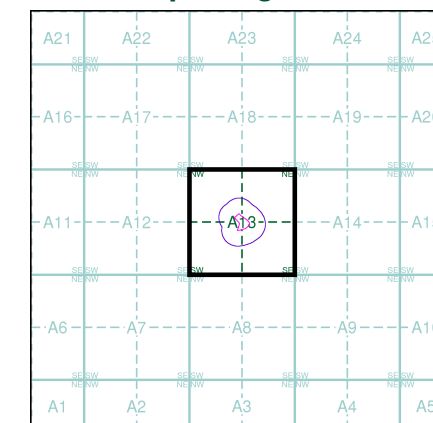
Source map scale - 1:2,500

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

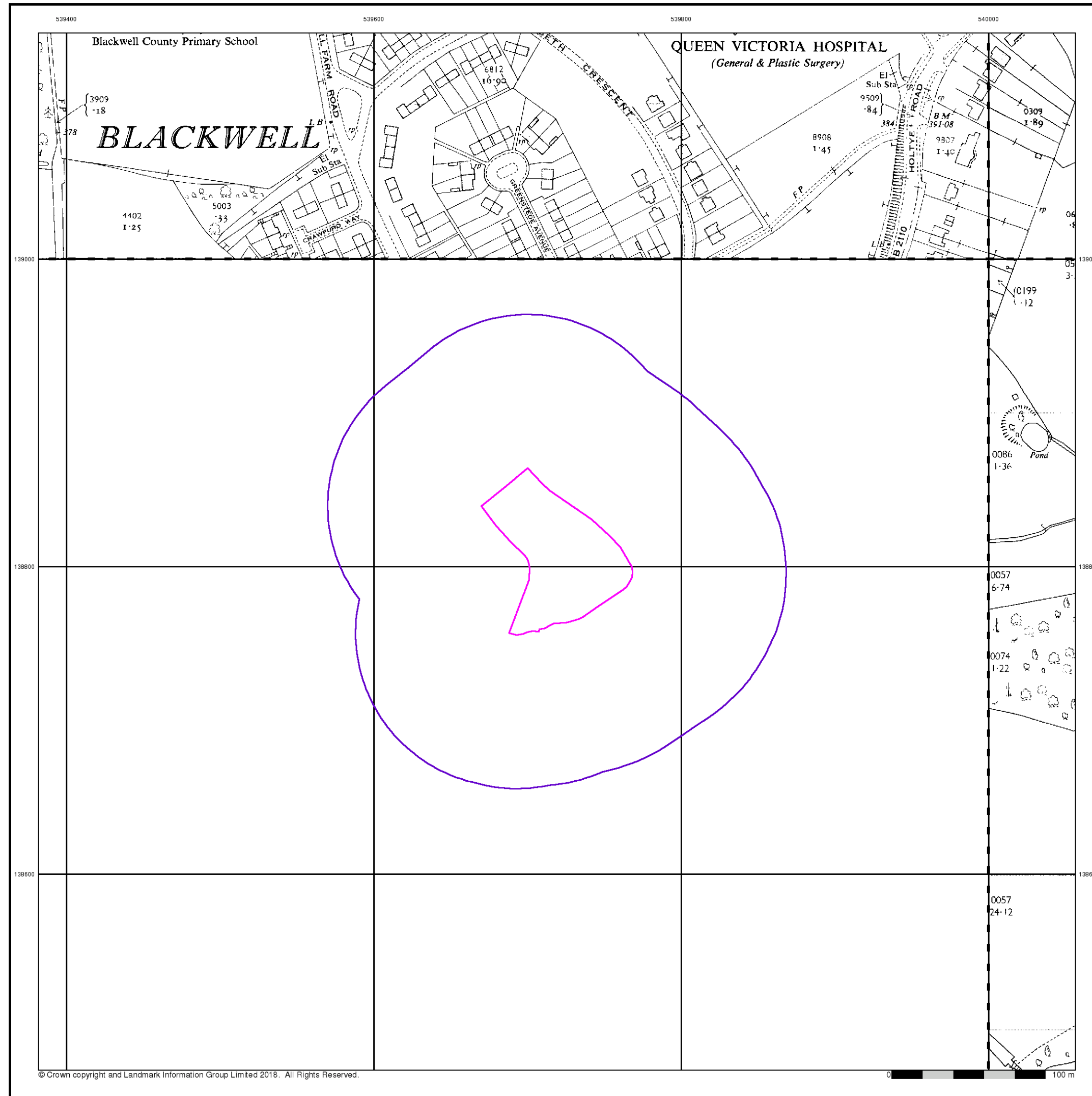
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Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1956 - 1964

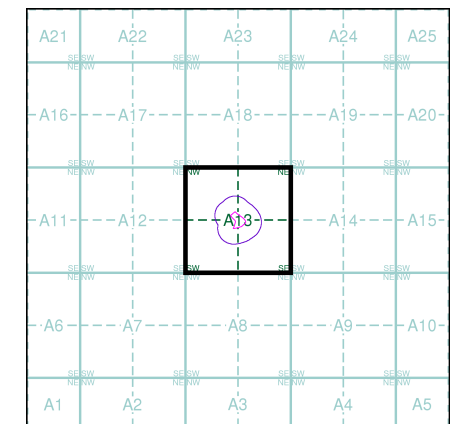
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Map Name(s) and Date(s)

TQ3939 1956 1:2,500	TQ4039 1956 1:2,500
	TQ4038 1964 1:2,500

Historical Map - Segment A13



Order Details

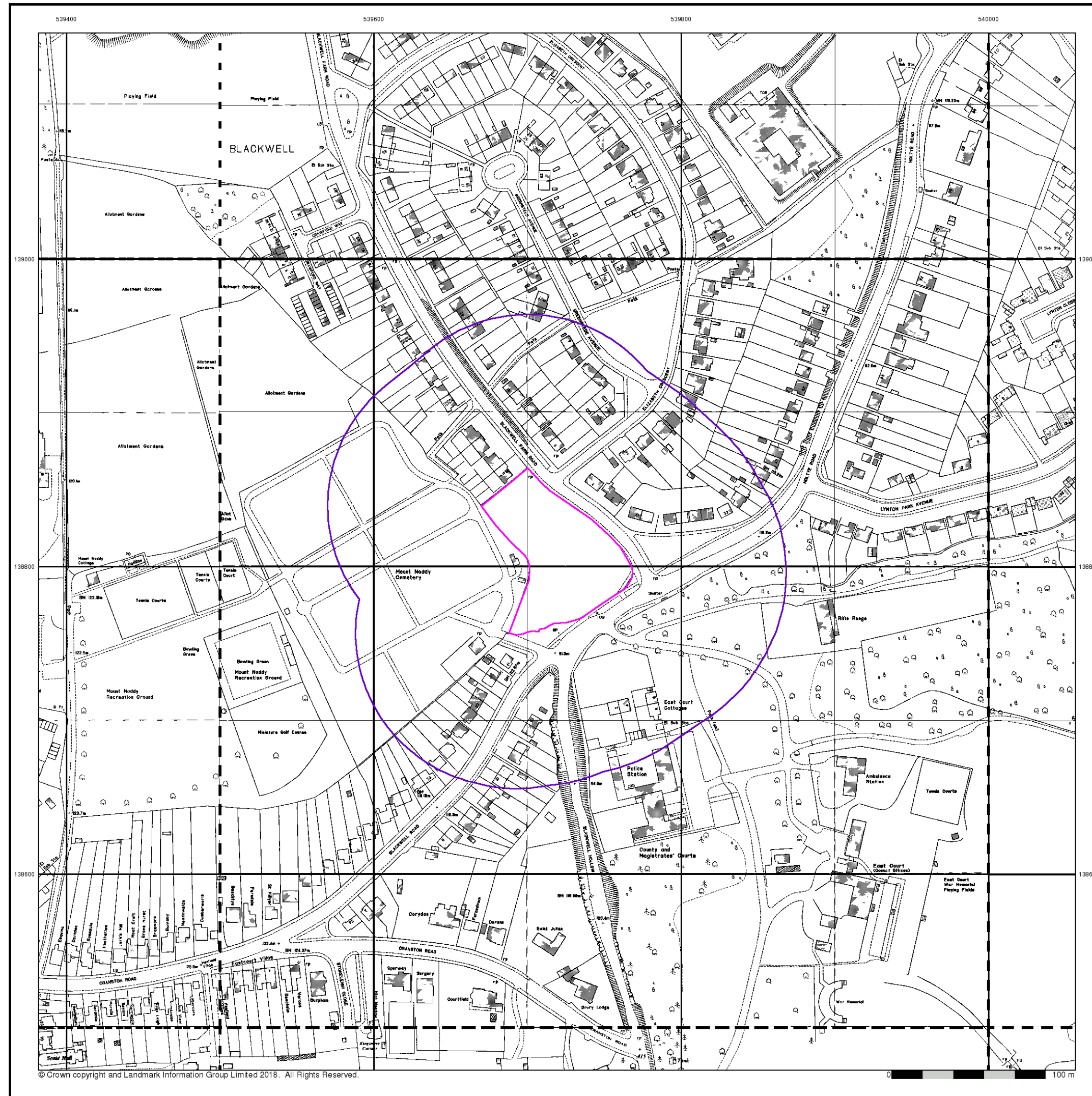
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

Holtze Road, East Grinstead, RH19 3HT



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Ordnance Survey Plan

Published 1956 - 1979

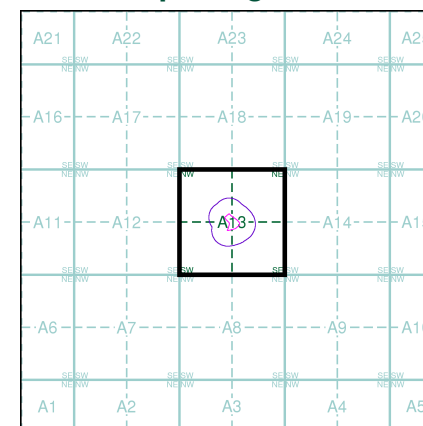
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

Q3939SW	Q3939SE	Q4039SW
1979	1978	1978
1:1,250	1:1,250	1:1,250
Q3938NW	Q3938NE	Q4038NW
1979	1979	1979
1:1,250	1:1,250	1:1,250
Q3938SW	Q3938SE	Q4038SW
1956	1956	1979
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

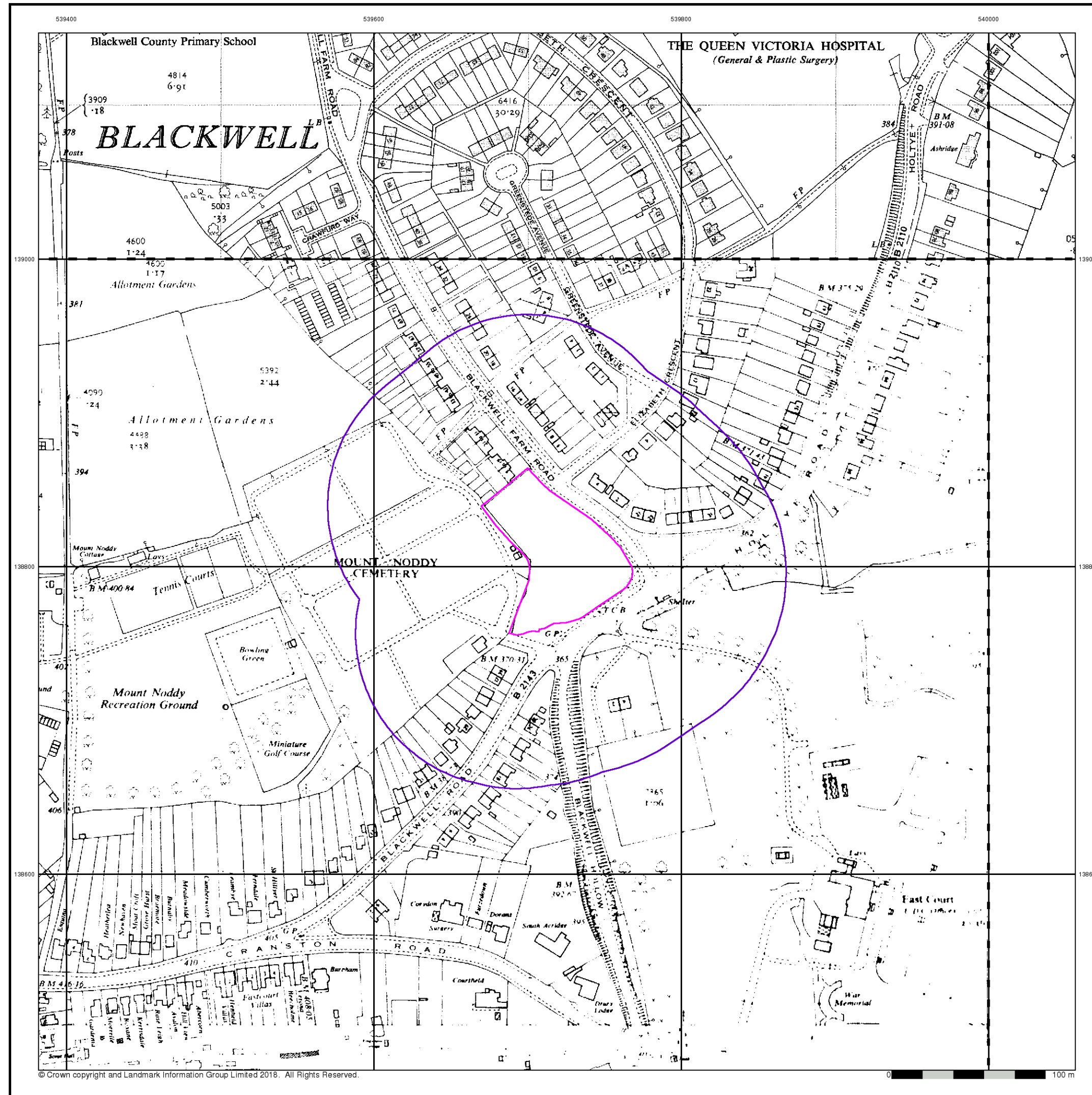
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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Ordinance Survey Plan

Published 1962 - 1964

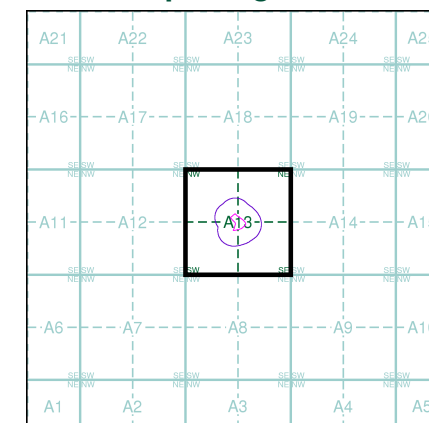
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TQ3939 1962 1:2,500	TQ4039 1964 1:2,500
TQ3938 1962 1:2,500	

Historical Map - Segment A13



Order Details

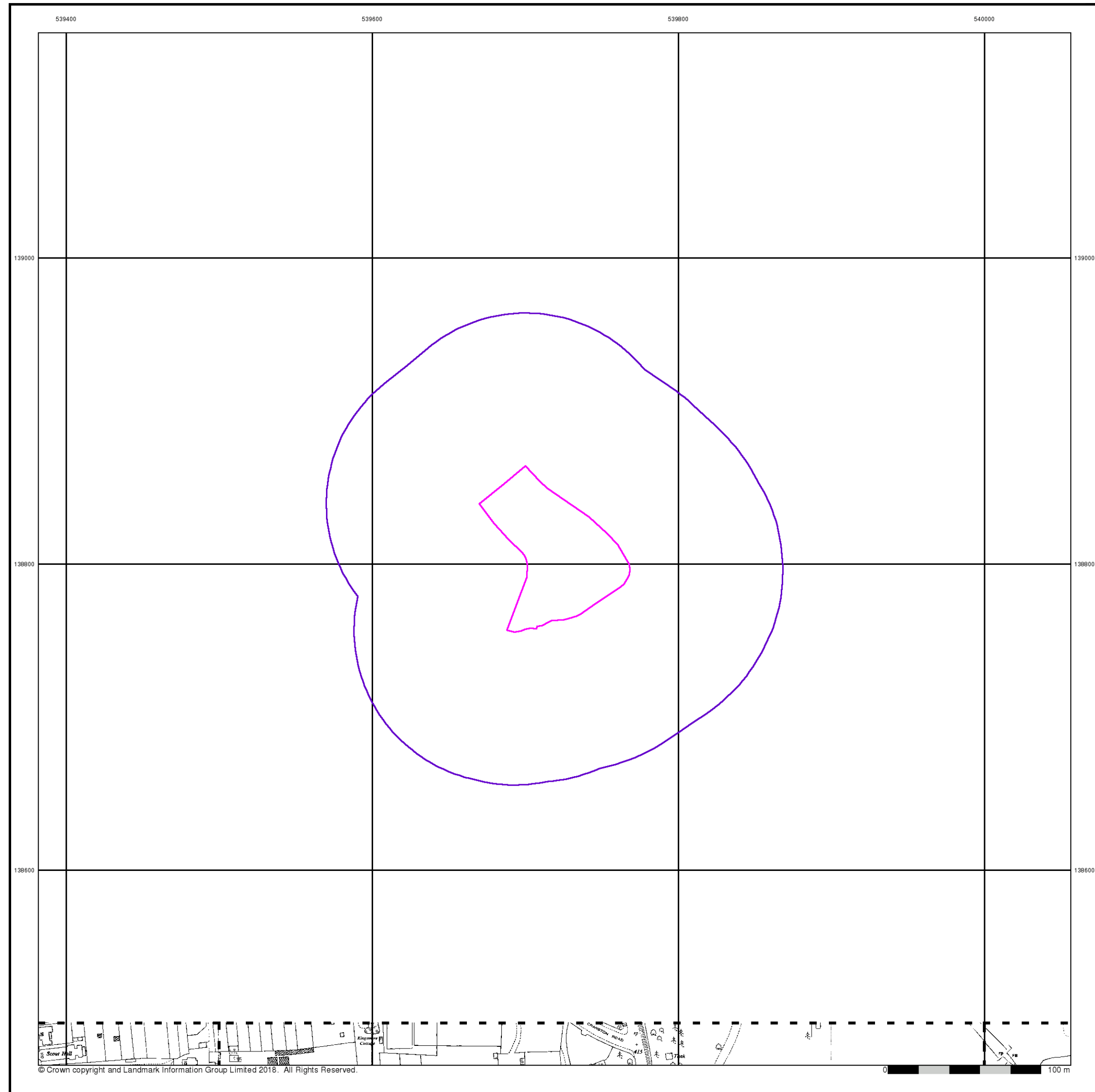
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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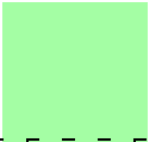
Ordnance Survey Plan

Published 1964 - 1982

Source map scale - 1:1,250

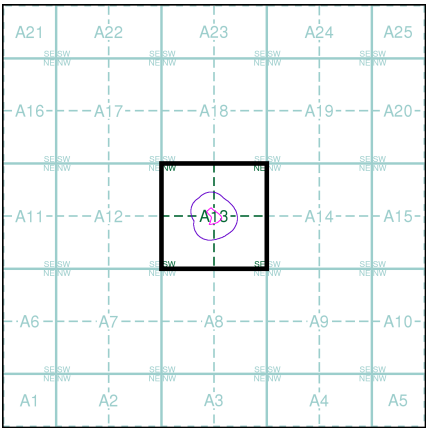
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



TQ3938SW 1964 1:1,250	TQ3938SE 1966 1:1,250	TQ4038SW 1982 1:1,250
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Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

Site Details

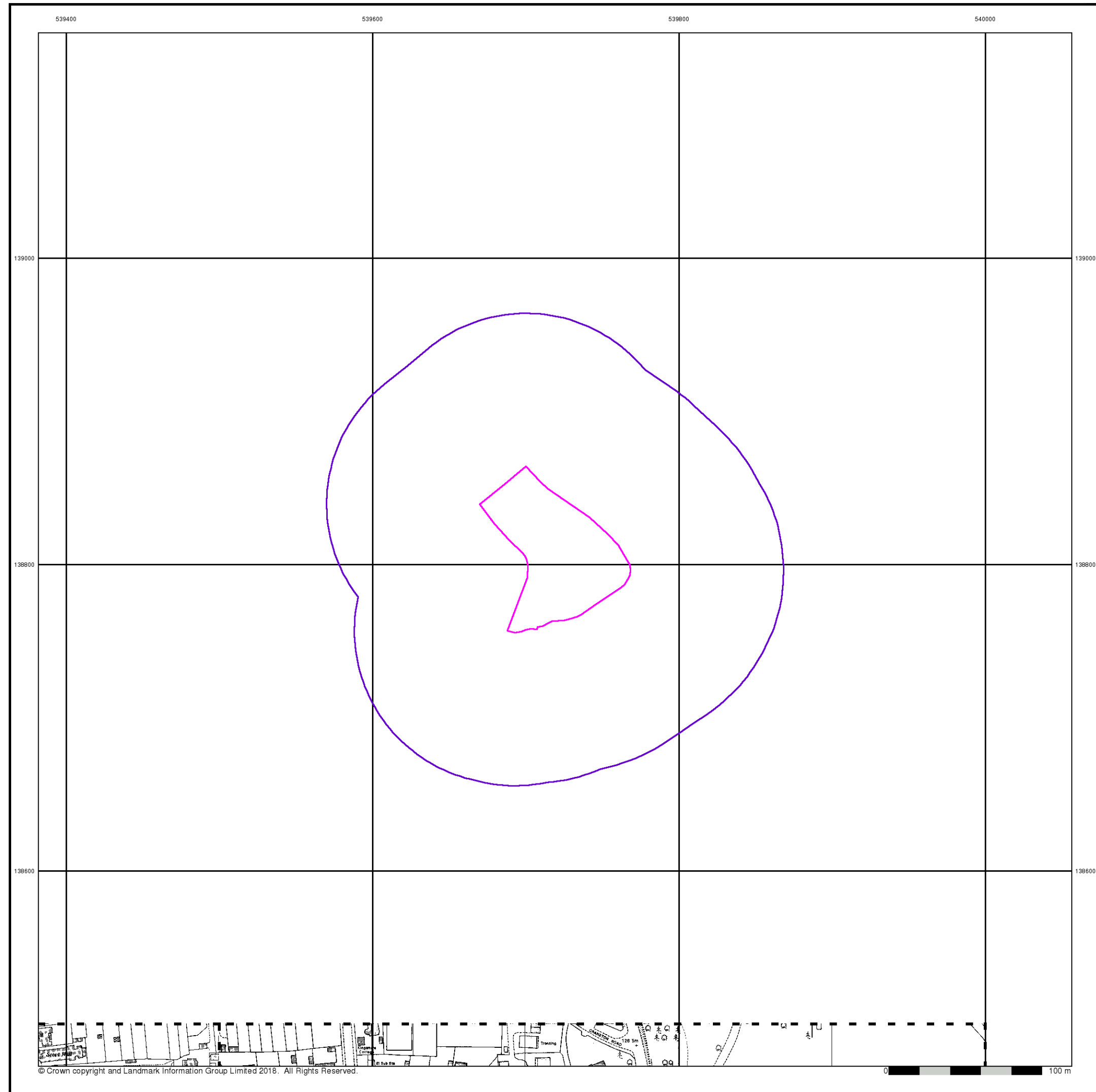
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Ordinance Survey Plan

Published 1966 - 1989

Source map scale - 1:1,250

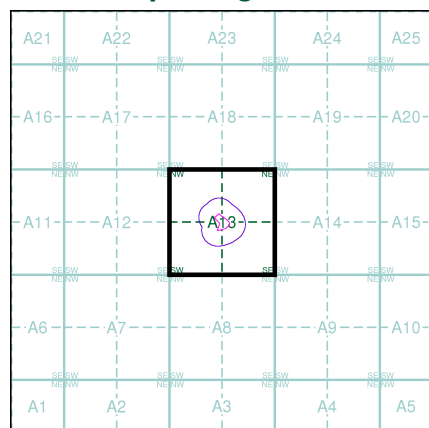
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



TQ3938SW	TQ3938SE
1966	1989
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
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Site Area (Ha):	0.56
Search Buffer (m):	100

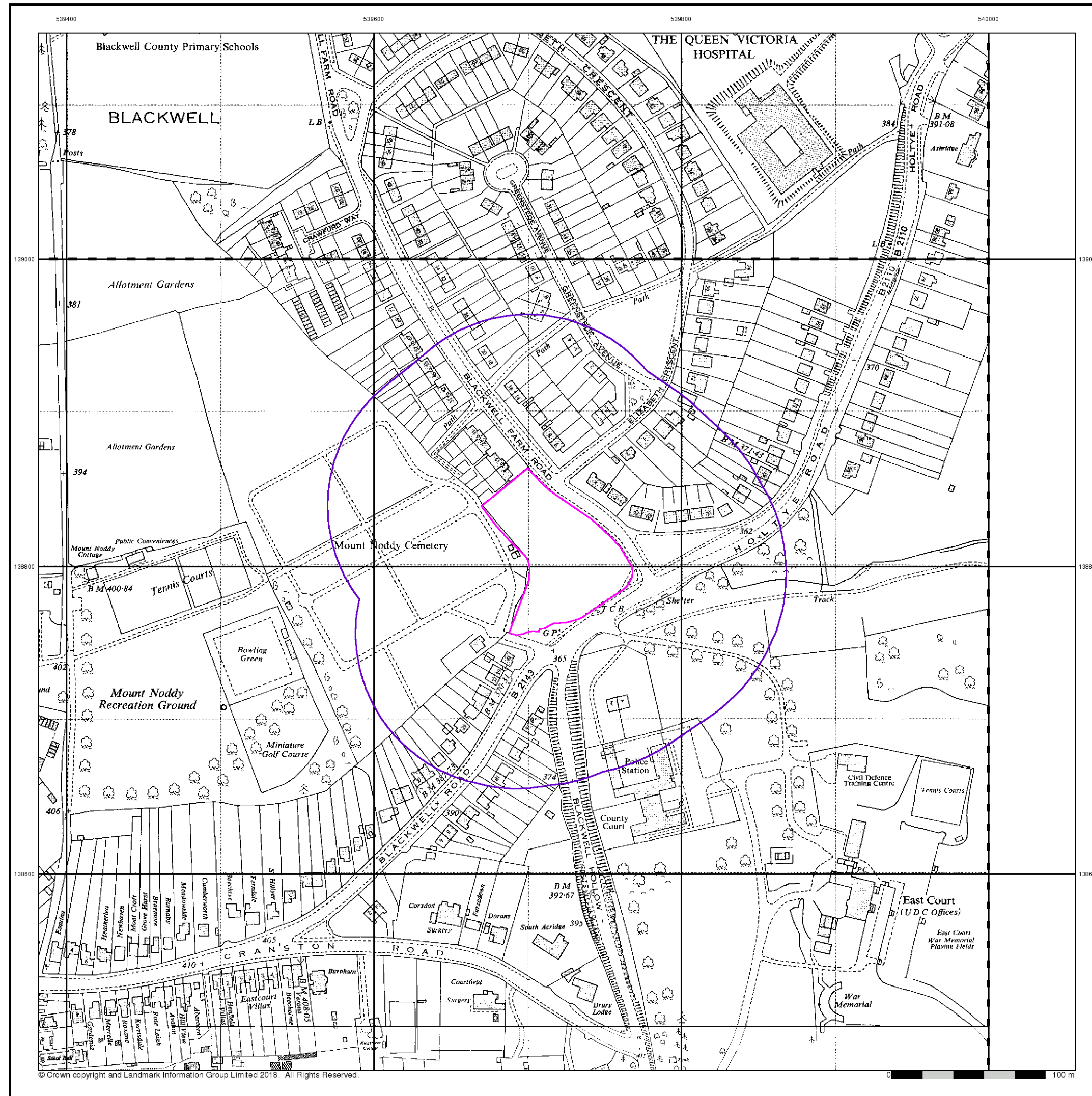
Site Details

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Ordnance Survey Plan

Published 1967

Source map scale - 1:2,500

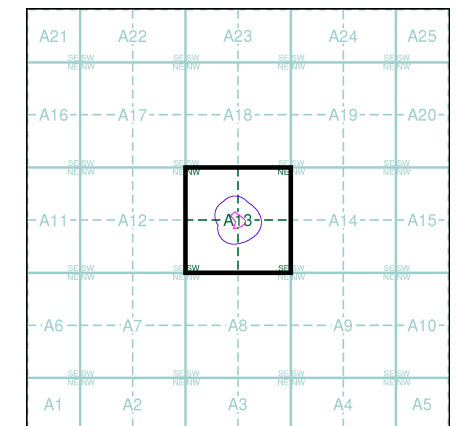
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

TQ3939
1967
1:2,500

TQ3938
1967
1:2,500

Historical Map - Segment A13



Order Details

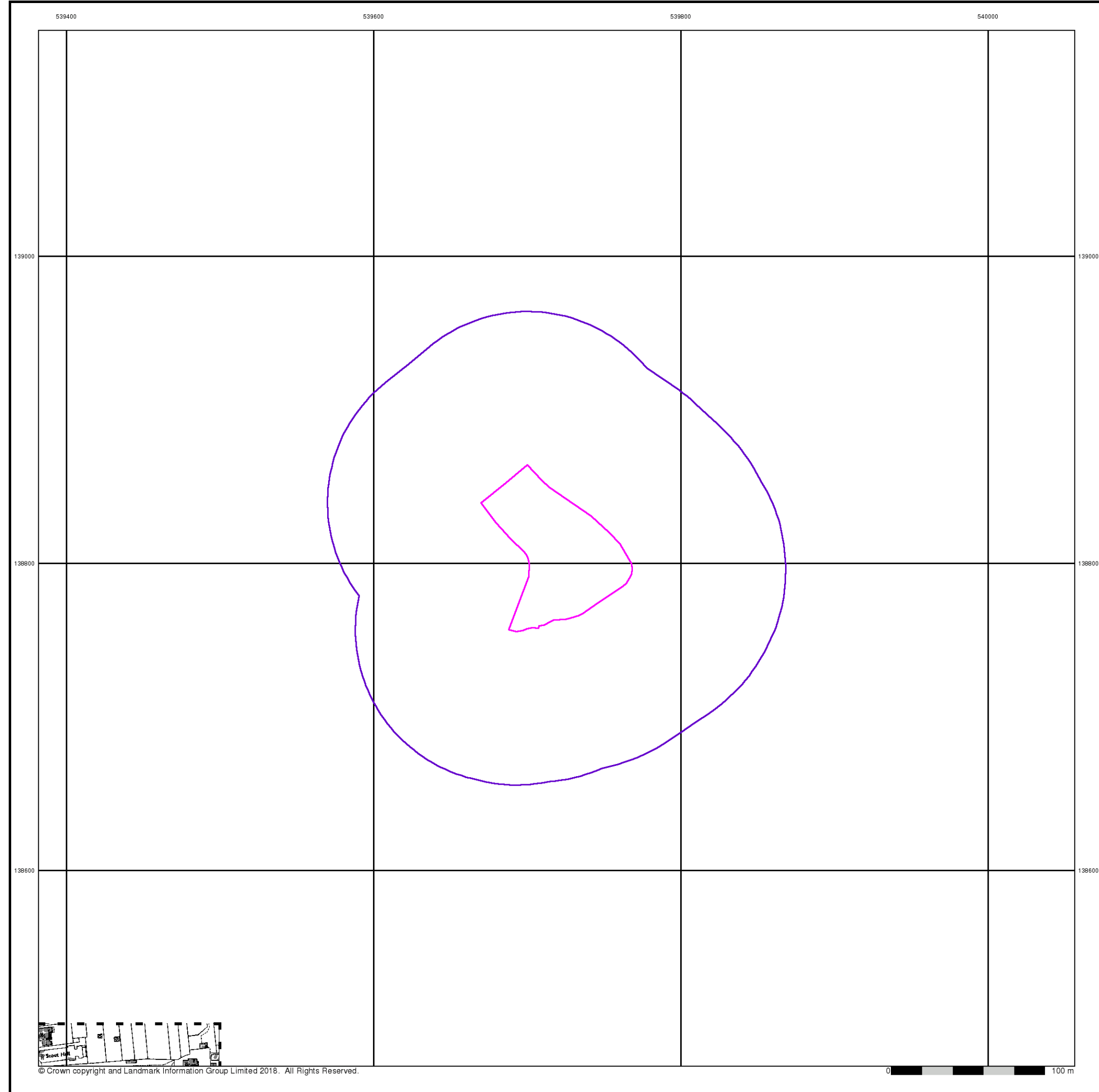
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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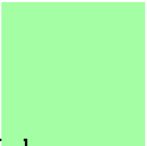
Ordnance Survey Plan

Published 1974

Source map scale - 1:1,250

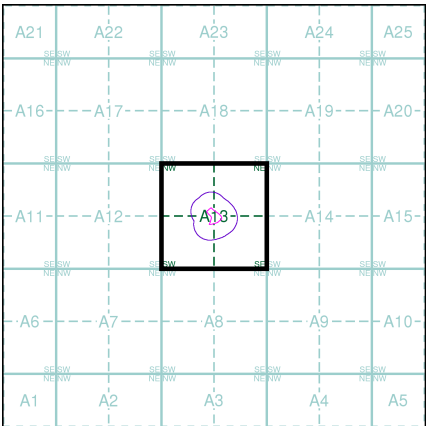
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



TQ3938SW
1974
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
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Search Buffer (m):	100

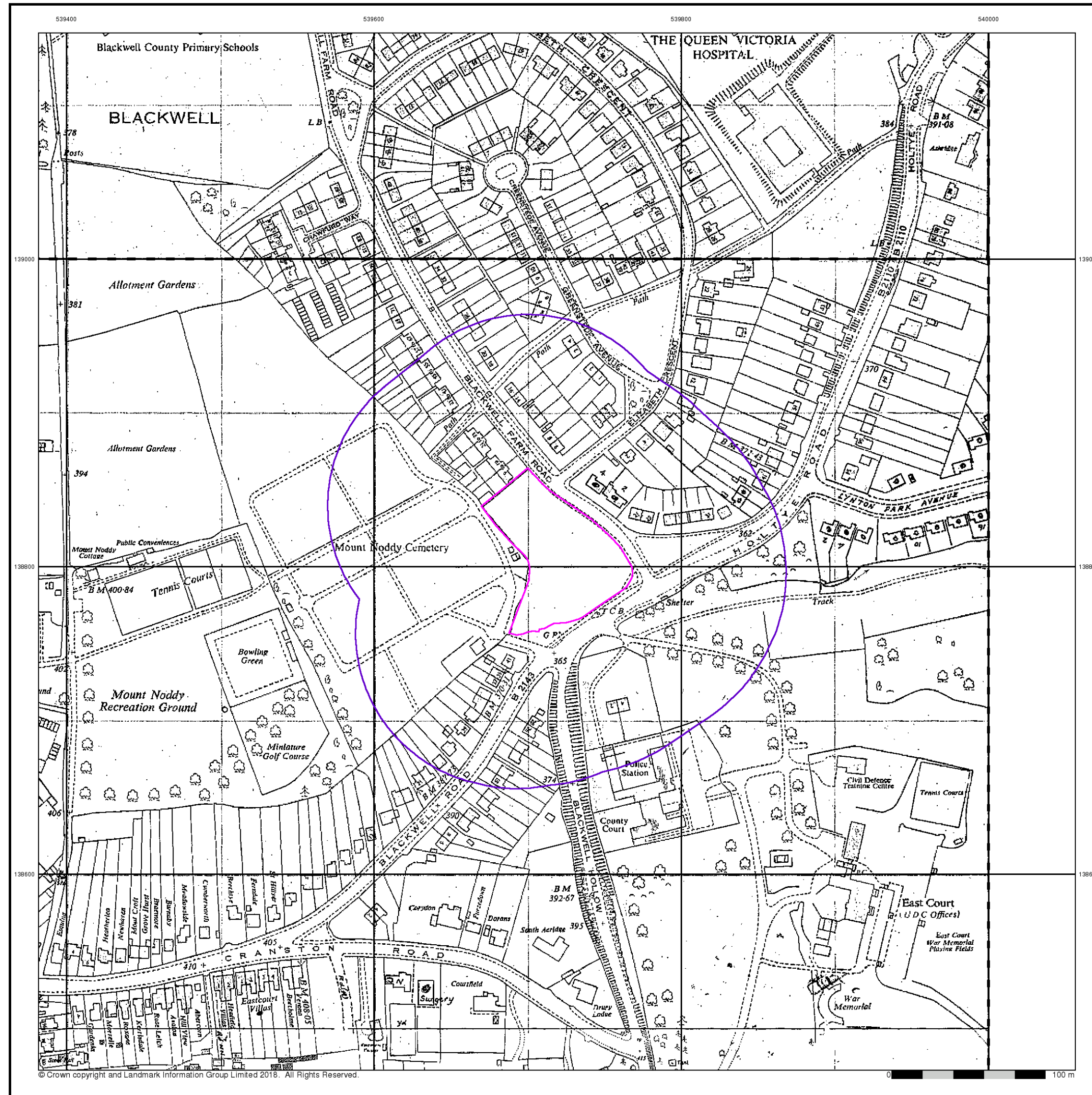
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Supply of Unpublished Survey Information

Published 1974

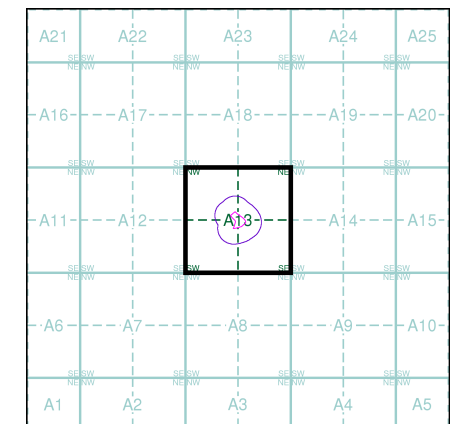
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TQ3939	1974	1:2,500
TQ3938	1974	1:2,500

Historical Map - Segment A13



Order Details

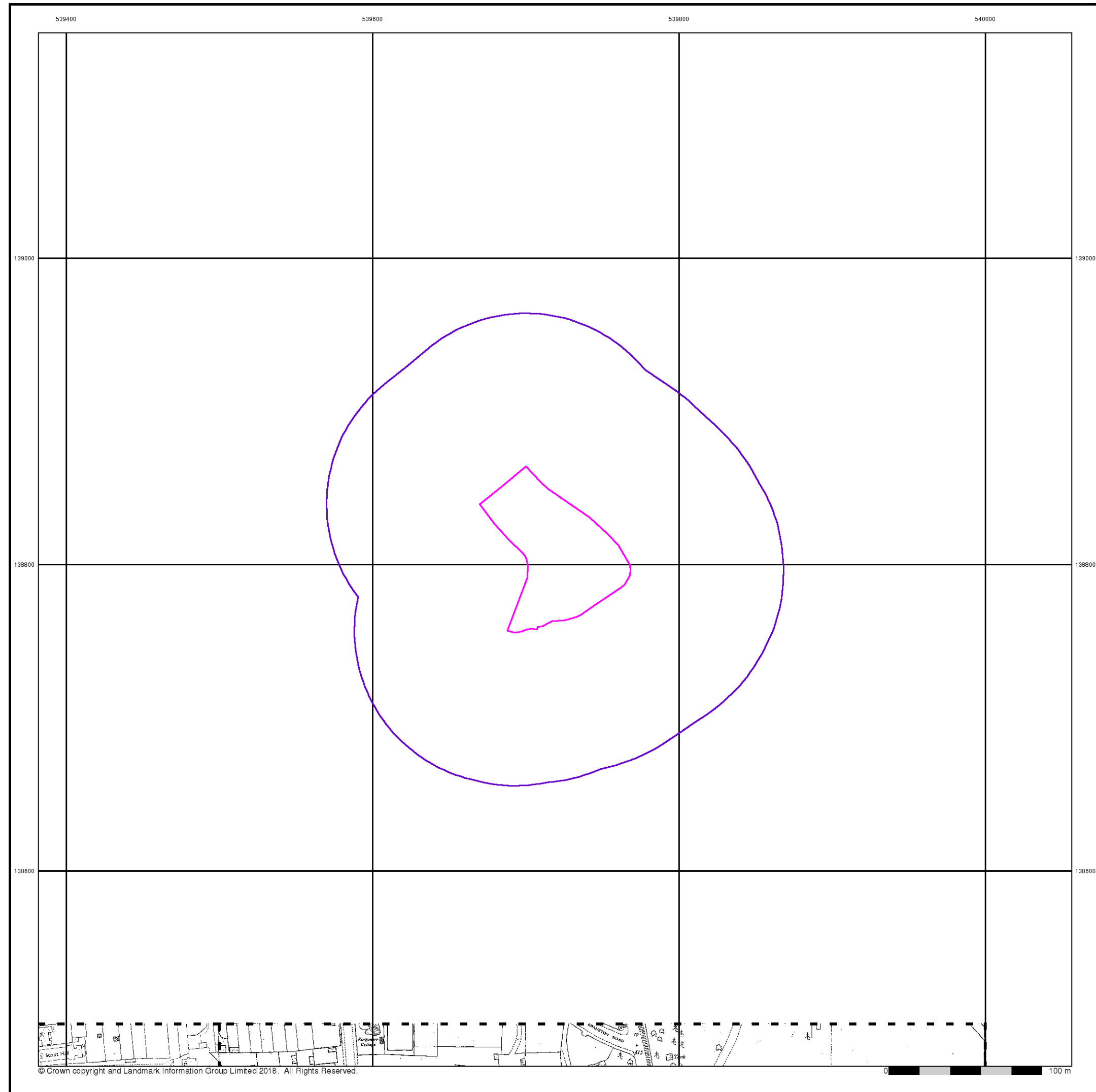
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

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Supply of Unpublished Survey Information

Published 1974 - 1975

Source map scale - 1:1,250

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

Map Name(s) and Date(s)



TQ3938SW 1975 1:1,250	TQ3938SE 1974 1:1,250
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Historical Map - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

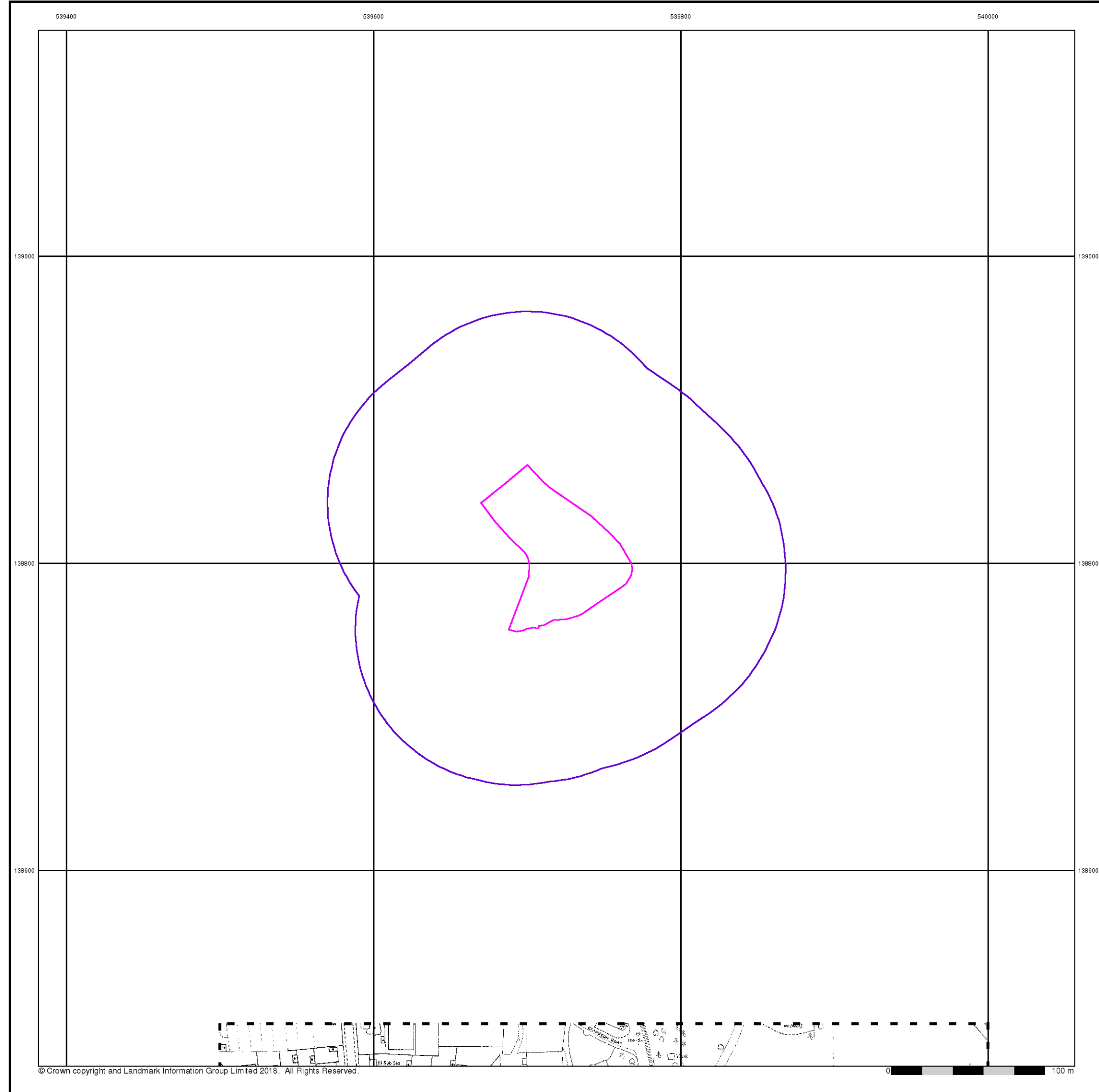
Site Details

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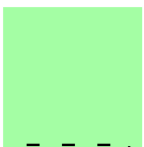
Additional SIMs

Published 1980

Source map scale - 1:1,250

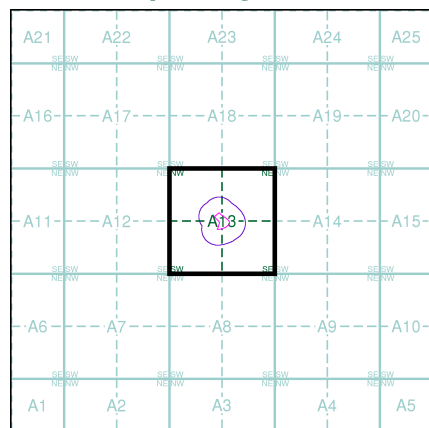
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



TQ3938SE
1980
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

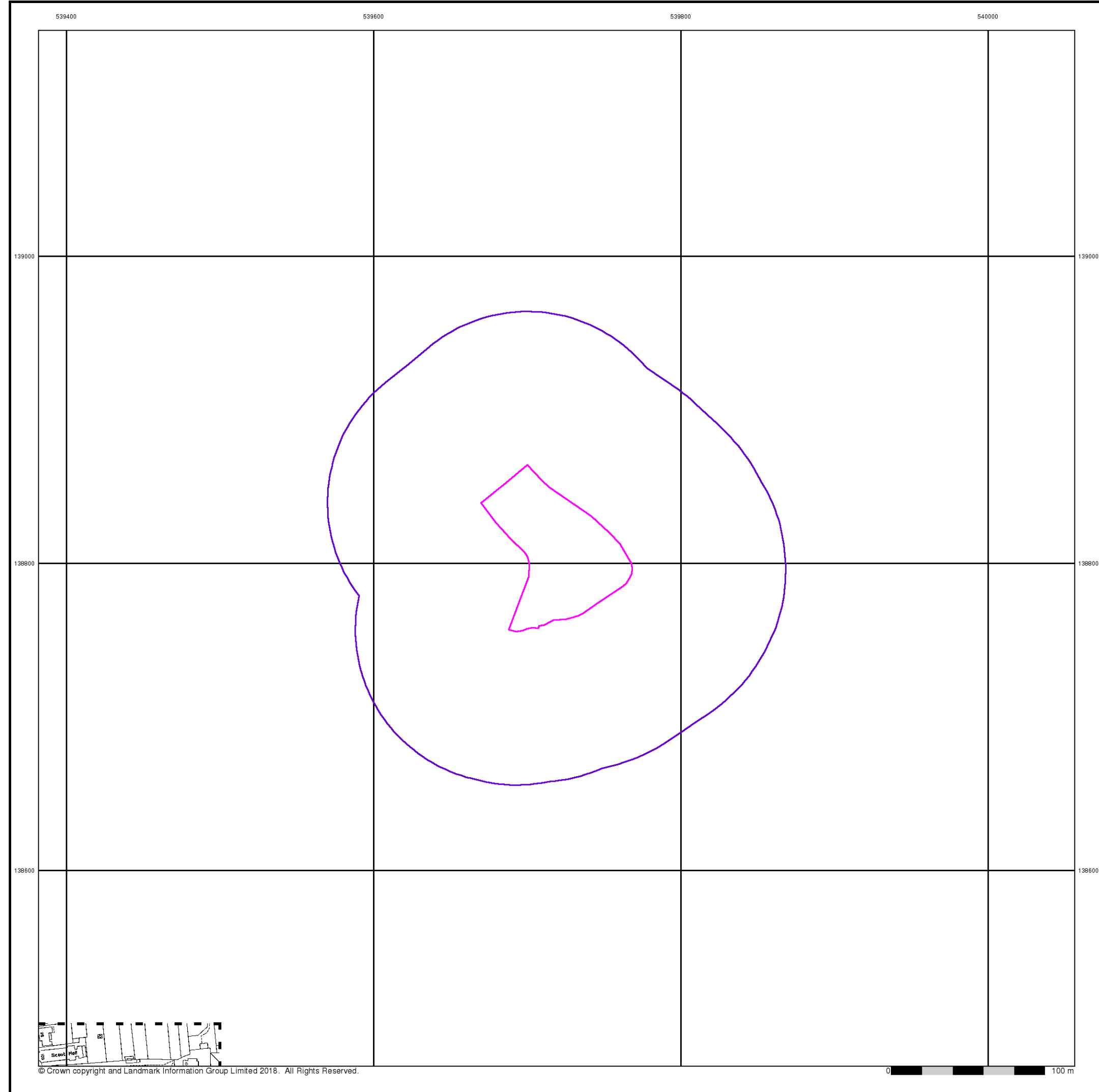
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Land Science

Ordnance Survey Plan

Published 1983

Source map scale - 1:1,250

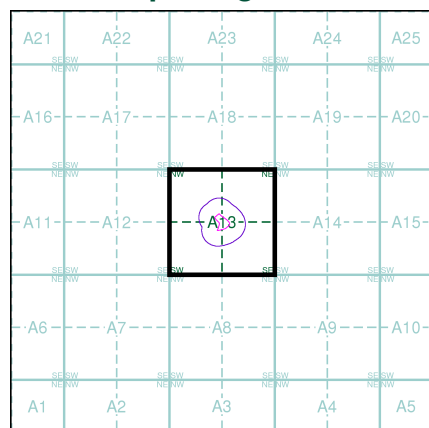
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



TQ3938SW
1983
1:1,250

Historical Map - Segment A13



N

Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

Site Details

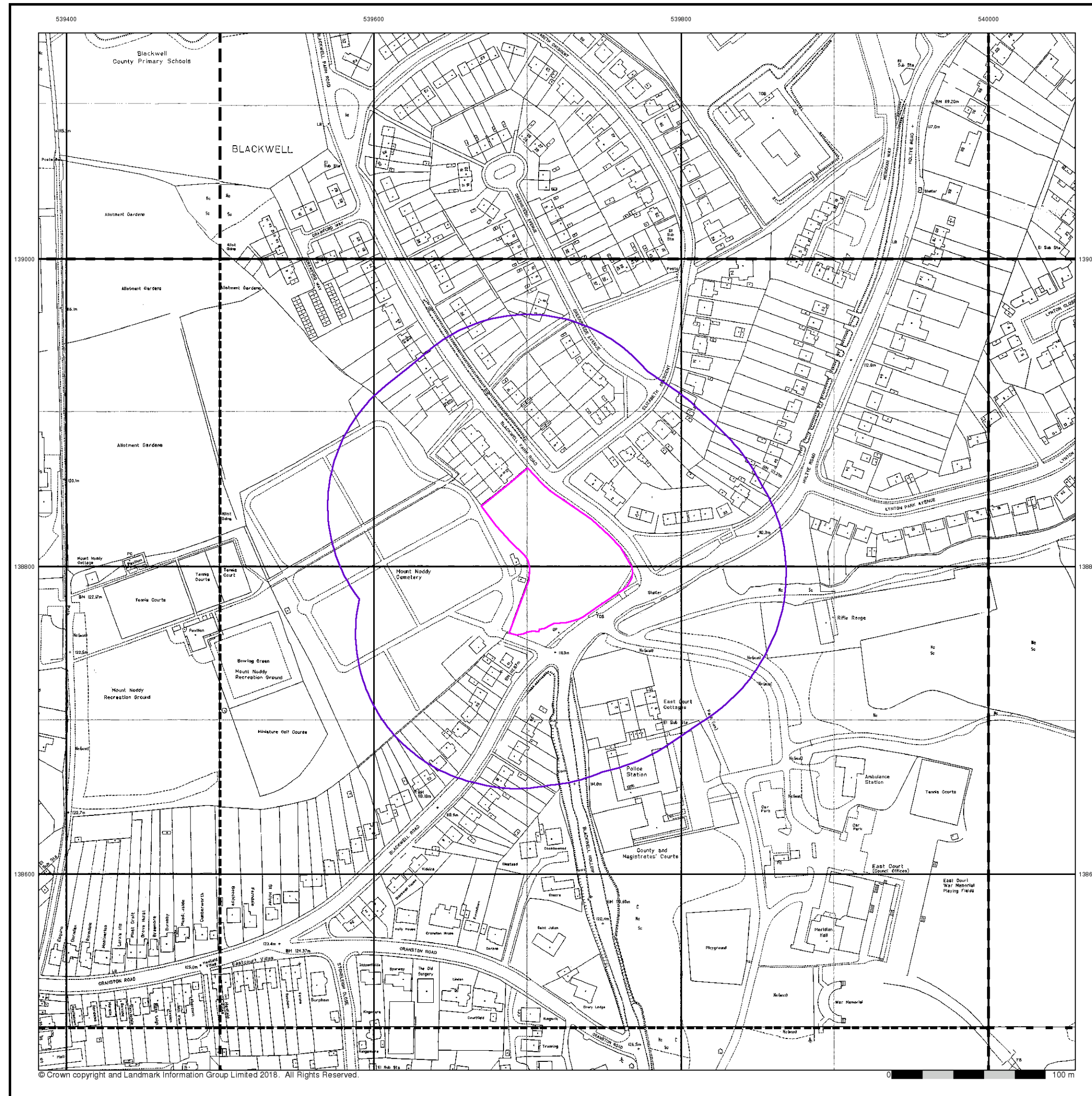
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Large-Scale National Grid Data

Published 1993

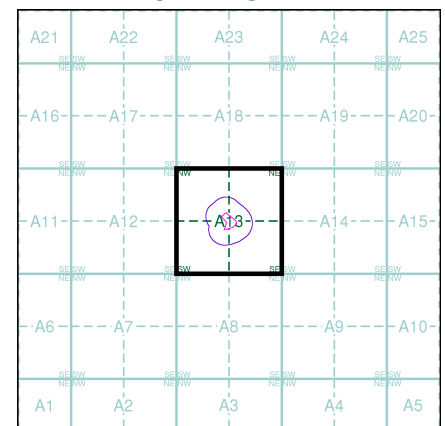
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

Q3939SW	Q3939SE	Q4039SW
1993	1993	1993
1:1,250	1:1,250	1:1,250
Q3938NW	Q3938NE	Q4038NW
1993	1993	1993
1:1,250	1:1,250	1:1,250
Q3938SW	Q3938SE	Q4038SW
1993	1993	1993
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

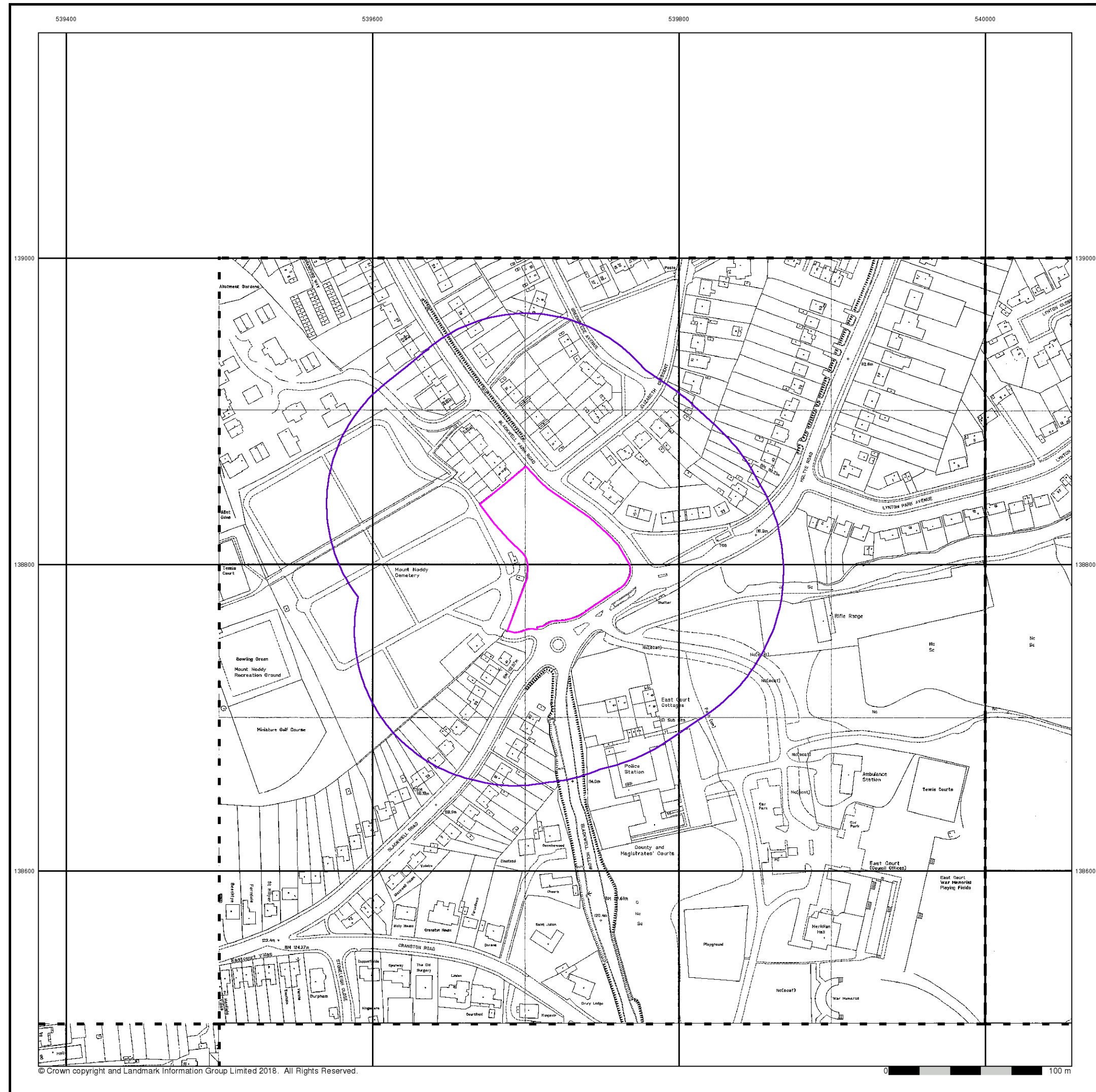
Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
Search Buffer (m): 100

Site Details

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Land Science

Large-Scale National Grid Data

Published 1994 - 1995

Source map scale - 1:1,250

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

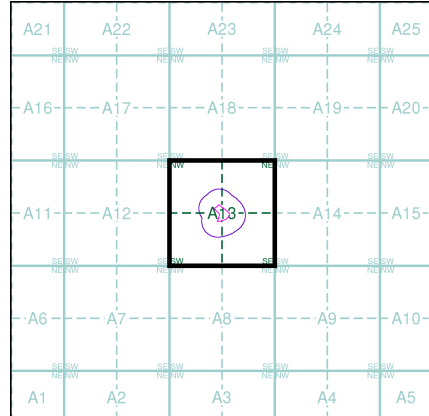
Map Name(s) and Date(s)

TQ3938NE
1994
1:1,250

TQ4038NW
1994
1:1,250

TQ3938SW
1995
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

Site Details

Holtye Road, East Grinstead, RH19 3HT

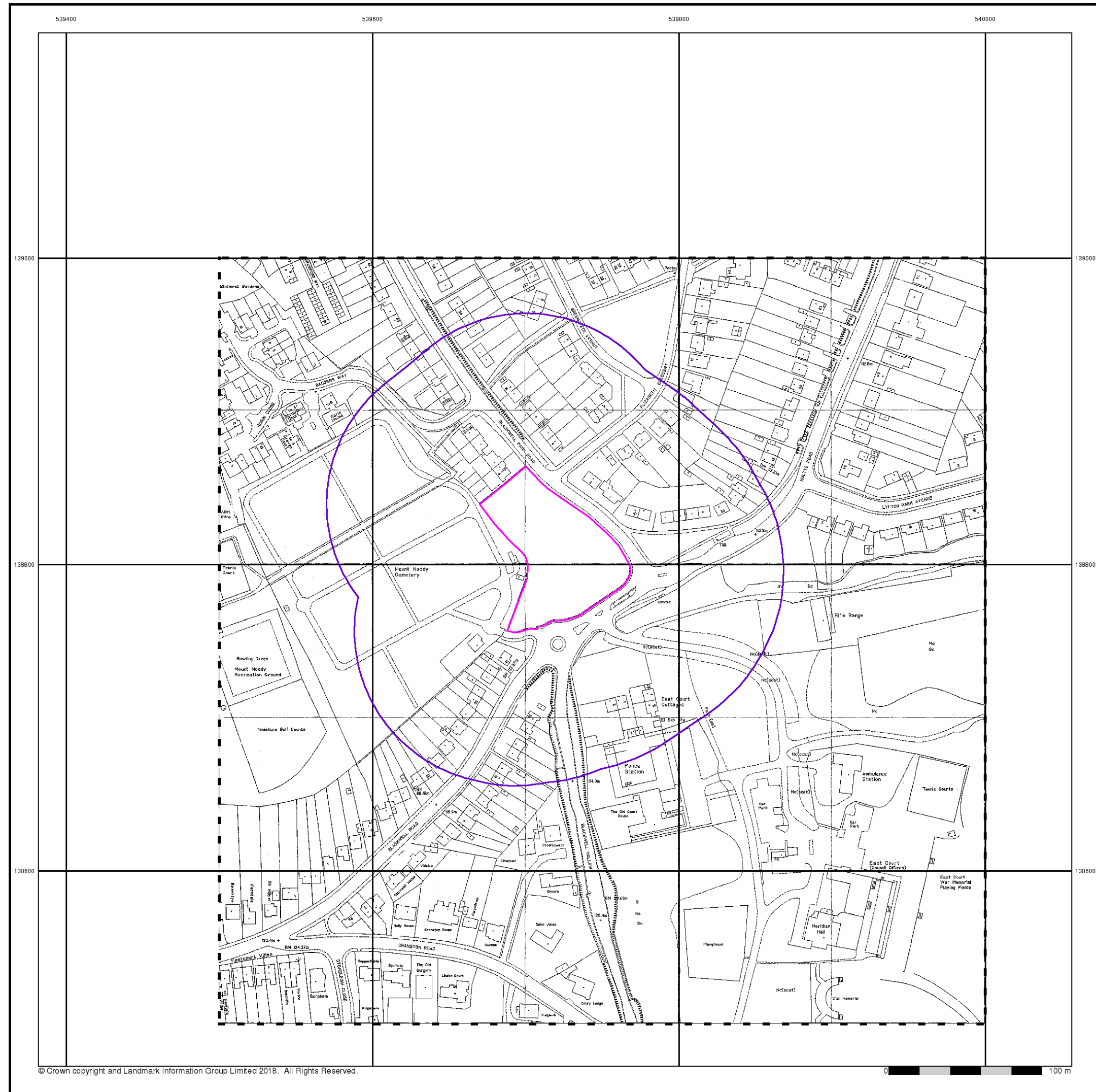


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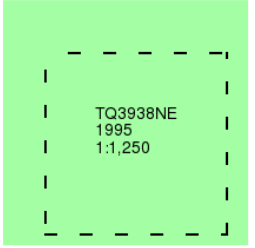
Large-Scale National Grid Data

Published 1995

Source map scale - 1:1,250

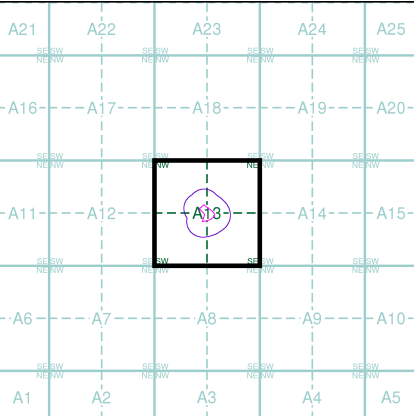
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)



TQ3938NE
1995
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	175797412_1_1
Customer Ref:	LS3734
National Grid Reference:	539710, 138810
Slice:	A
Site Area (Ha):	0.56
Search Buffer (m):	100

Site Details

Holtye Road, East Grinstead, RH19 3HT



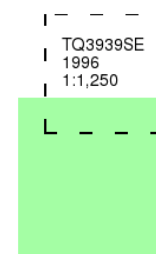
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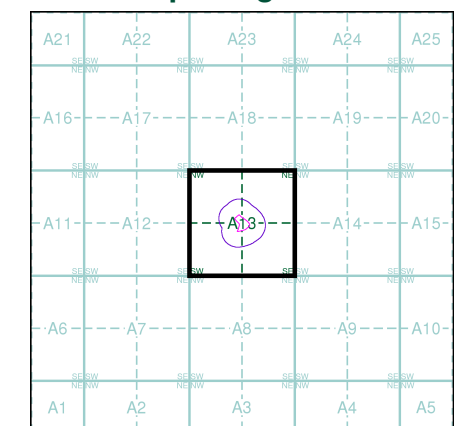
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Map Name(s) and Date(s)



Historical Map - Segment A13

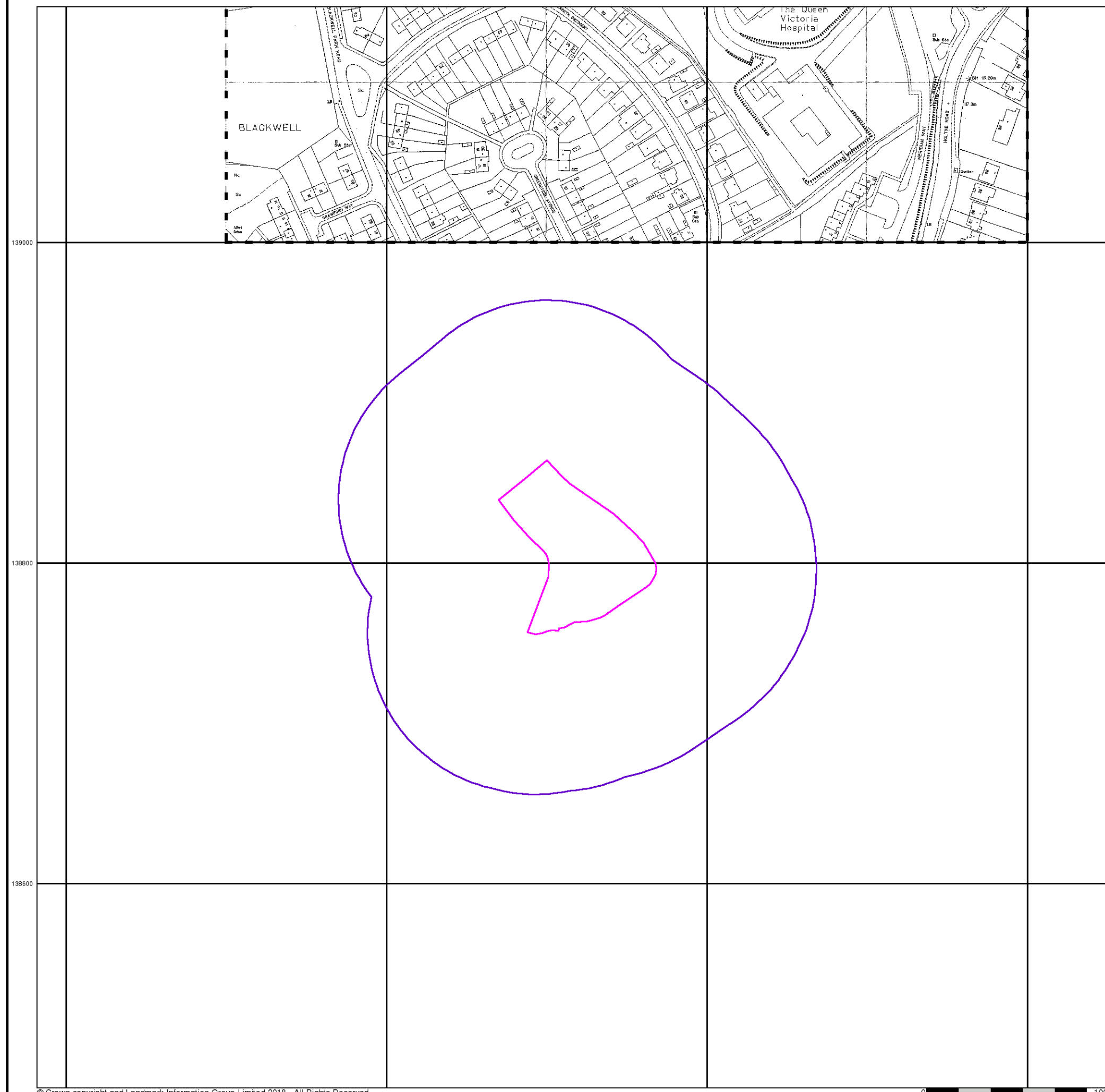


Order Details

Order Number: 175797412_1_1
 Customer Ref: LS3734
 National Grid Reference: 539710, 138810
 Slice: A
 Site Area (Ha): 0.56
 Search Buffer (m): 100

Site Details

Holtje Road, East Grinstead, RH19 3HT



539400

539600

539800

540000

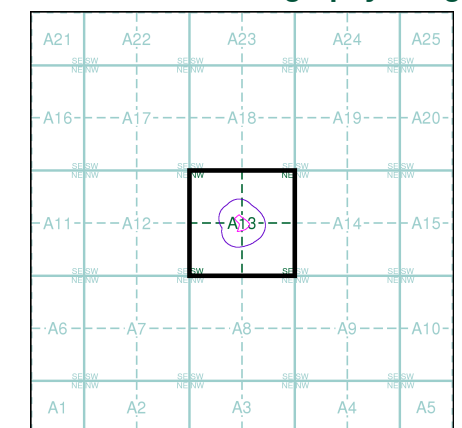
Land
Science

Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 175797412_1_1
Customer Ref: LS3734
National Grid Reference: 539710, 138810
Slice: A
Site Area (Ha): 0.56
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Site Details

Holtye Road, East Grinstead, RH19 3HT

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Web: www.envirocheck.co.uk



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

175797412_1_1

Customer Reference:

LS3734

National Grid Reference:

539710, 138810

Slice:

A

Site Area (Ha):

0.56

Search Buffer (m):

1000

Site Details:

Holtye Road
East Grinstead
RH19 3HT

Client Details:

Mr E Toms
Land Science Brighton Ltd
The Old Police Station
Jobs Lane
Sayers Common
West Sussex
BN6 9HE

Report Section	Page Number
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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 the attached 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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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	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1	2	2
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	pg 2				5
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		2	4	10
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 6			8	
River Quality	pg 7			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 7				2
Water Industry Act Referrals	pg 8				1
Groundwater Vulnerability	pg 8	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
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 8		3	2	42

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	pg 14				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 14				2
Local Authority Landfill Coverage	pg 14	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 14				3
Potentially Infilled Land (Non-Water)	pg 15			1	5
Potentially Infilled Land (Water)	pg 15		1	6	15
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	pg 17			1	
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 18			1	8
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
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					
Natural Cavities	pg 20			3	1
Non Coal Mining Areas of Great Britain	pg 20		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21		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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22		2	15	140
Fuel Station Entries	pg 35				2
Points of Interest - Commercial Services	pg 36		2		35
Points of Interest - Education and Health	pg 39			6	
Points of Interest - Manufacturing and Production	pg 39				33
Points of Interest - Public Infrastructure	pg 42		3		11
Points of Interest - Recreational and Environmental	pg 43		2	2	9
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 45		1	3	5
Areas of Adopted Green Belt	pg 45				3
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty	pg 45			1	
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 45		1	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	A13SW (S)	0	1	539713 138800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SE)	0	1	539713 138807
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	250	1	540000 138700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	253	1	540000 138900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	277	1	540000 138950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	320	1	540050 138950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	388	1	540100 139000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	425	1	539350 138500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	480	1	539900 139300
1	Discharge Consents Operator: Southern Water Services Limited. + Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Mount Noddy Cem. East Grinstead Cso Mount Noddy Cemetery Lodge, Blackwell Road, East Grinstead, East Sussex, Rh19 3hp Authority: Environment Agency, Southern Region Catchment Area: Medway Reference: A01470 Permit Version: 1 Effective Date: 29th August 2008 Issued Date: 29th August 2008 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Unamed Trib Of Medway Via Pond Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SE (E)	53	2	539820 138790
2	Discharge Consents Operator: Southern Water Services Limited. + Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Gleave Close Pumping Station, 20 Gleave Close, East Grinstead, Rh19 3xd Authority: Environment Agency, Southern Region Catchment Area: Medway Reference: A01429 Permit Version: 1 Effective Date: 9th October 2007 Issued Date: 9th October 2007 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: The Shovelstrode Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NW (E)	490	2	540240 138930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Southern Water Services Limited. + Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Gleave Close East Grinstead Wwps Ashplate Wood, To Gleave Close, East Grinstead, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Medway Reference: W00491 Permit Version: 1 Effective Date: 14th March 1983 Issued Date: 14th March 1983 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Shovelstrode Stream Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A14NW (E)	490	2	540240 138930
3	Discharge Consents Operator: Southern Water Services Ltd (K) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Durkins Farm, East Grinstead, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: K01506 Permit Version: 1 Effective Date: 8th January 1964 Issued Date: 8th January 1964 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	722	2	539280 139450
4	Discharge Consents Operator: South East Water Ltd (13130) Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Hackenden Water Pumping Stn, East Grinstead, Sussex, Rh19 3dw Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: K02089 Permit Version: 1 Effective Date: 11th May 1970 Issued Date: 11th May 1970 Revocation Date: 30th March 2010 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	964	2	539400 139780
5	Local Authority Pollution Prevention and Controls Name: East Grinstead Service Station Location: 147-149 London Road, EAST GRINSTEAD, West Sussex, RH19 1ET Authority: Mid Sussex District Council, Environmental Services Section Permit Reference: EPR/VR/13 Dated: 20th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A7NE (SW)	635	3	539175 138383
6	Local Authority Pollution Prevention and Controls Name: Bowecare Dry Cleaners Location: 24 Railway Approach, East Grinstead, Rh19 1bp Authority: Mid Sussex District Council, Environmental Services Section Permit Reference: EPR/DC/04 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	725	3	539211 138211

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Local Authority Pollution Prevention and Controls Name: Johnsons Cleaners Uk Ltd Location: 4 Queens Walk, East Grinstead, Rh19 4dw Authority: Mid Sussex District Council, Environmental Services Section Permit Reference: PPC/DC/09 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	816	3	539336 138021
8	Local Authority Pollution Prevention and Controls Name: Escort Dry Cleaners Location: 6 West Street, East Grinstead, RH19 4ED Authority: Mid Sussex District Council, Environmental Services Section Permit Reference: EPR/DC/02 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	838	3	539413 137966
9	Local Authority Pollution Prevention and Controls Name: Brooklands Service Station Location: 27 Station Road, EAST GRINSTEAD, West Sussex, RH19 1DJ Authority: Mid Sussex District Council, Environmental Services Section Permit Reference: EPR/VR/10 Dated: 31st December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A7NW (SW)	912	3	538899 138301
	Nearest Surface Water Feature	A13SE (E)	52	-	539819 138781
10	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Mount Noddy , EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Crude Sewage Note: Sewer Overflow Incident Date: 14th July 1997 Incident Reference: 397335 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	92	2	539800 138700
11	Pollution Incidents to Controlled Waters Property Type: WSC Sewage, Sewerage & Supply Location: Lynton Park Avenue, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: General Biodegradable : Crude Sewage & Sewerage Material Note: Not Supplied Incident Date: 10th October 1999 Incident Reference: 3128 Catchment Area: Medway Receiving Water: Potential River Cause of Incident: Drainage Failures : Foul Sewer Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A13NE (E)	235	2	540001 138821
12	Pollution Incidents to Controlled Waters Property Type: Road (Road Traffic Accident) Location: High Street, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: Small Quantity Of Petrol Incident Date: 7th June 1996 Incident Reference: 396251 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Road Traffic Accident Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	352	2	539500 138460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Pollution Incidents to Controlled Waters Property Type: Not Applicable Location: East Court, Escotts Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Algae Note: Red Algae On Pond Incident Date: 30th March 1993 Incident Reference: 92T586 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: General Pollution - Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	442	2	540100 138500
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Pumping Station Location: Baldwins Hill &, Glebe Close, East Grinstead/Crowborough Area Authority: Environment Agency, Southern Region Pollutant: Storm Sewage Note: Sewage Pumping Station High Level Alarms (Numerous) Incident Date: 10th November 1996 Incident Reference: 396508 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Private Pumping Station Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	444	2	540200 138900
15	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Unknown Location: Grounds Of Kings Sport Centre, Moat Road, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Oils - Unknown Note: Oil In Lake Incident Date: 17th August 1996 Incident Reference: 396396 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	466	2	539300 138500
16	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Outside 47 Holly Road, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Storm Sewage Note: Blocked Sewer Discharging Into Stream Incident Date: 23rd June 1997 Incident Reference: 397268 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Plc Sewage Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	515	2	540100 139200
17	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Other Location: Railway Approach, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Chemicals - Solvents Note: Unknown Substance In Drains Incident Date: 8th August 1997 Incident Reference: 397354 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	600	2	539300 138300
18	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Alders View Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Unknown Sewage Note: Sewage In Watercourse Incident Date: 15th August 1996 Incident Reference: 396376 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	658	2	539320 139400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Other Location: Rear Of Alders Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Chemicals - Detergents/Surfactant Note: Stream Very Frothy Incident Date: 1st May 1996 Incident Reference: 396238 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	727	2	539350 139500
20	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Estcots Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Crude Sewage Note: Overflow From Rising Main Into Stream; Domestic/Residential Incident Date: 25th August 1995 Incident Reference: 395286 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Plc Sewage Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	831	2	540500 138400
20	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Other Location: Waterside, Ercotts Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Unknown Sewage Note: Property Flooding From Sewage Burst; Private Sewage (Non-Plc): Foul Sewer Incident Date: 26th November 1995 Incident Reference: 395434 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Plc Sewage Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	834	2	540500 138395
21	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Location Description Not Available Authority: Environment Agency, Southern Region Pollutant: Unknown Sewage Note: Sewage In Stream Incident Date: 16th February 1997 Incident Reference: 397074 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Plc Sewage Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	835	2	540500 139200
22	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Rising Main Location: Escot Drive, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Crude Sewage Note: Rising Main Burst Incident Date: 3rd September 1996 Incident Reference: 396440 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Sewerage Fractured Main Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	883	2	540600 138500
23	Pollution Incidents to Controlled Waters Property Type: Road Location: Pegasus Way, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Urban Runoff Note: Black Oil In Stream Incident Date: 28th February 1993 Incident Reference: 92T553 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	915	2	540500 139350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Railways Location: Railway Station, EAST GRINSTEAD Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: Spillage Of Petrol Incident Date: 21st June 1993 Incident Reference: 93T083 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Oils/Related Products Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	965	2	538900 138200
25	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Holtye Road, East Grinstead, West Sussex, RH19 3EB Authority: Environment Agency, Southern Region Permit Reference: CB2857 Dated: 26th July 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address	A13NE (NE)	279	2	539860 139092
26	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Queen Victoria, Holtye Road, East Grinstead, West Sussex, Rh19 3dz Authority: Environment Agency, Southern Region Permit Reference: Bv7052 Dated: 23rd October 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned to the address or location	A18SE (N)	372	2	539835 139210
26	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Queen Victoria, Holtye Road, EAST GRINSTEAD, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: AM9845 Dated: 5th August 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A18SE (N)	373	2	539834 139212
26	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Queen Victoria, Holtye Road, EAST GRINSTEAD, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: AI0918 Dated: 23rd July 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A18SE (N)	373	2	539834 139212
27	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Queen Victoria, Holtye Road, EAST GRINSTEAD, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: AZ4212 Dated: 12th September 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A18SE (N)	415	2	539884 139235

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Queen Victoria Hospital, Holtye Road, EAST GRINSTEAD, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: AT2446 Dated: 27th October 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A18SE (N)	421	2	539889 139240
27	Registered Radioactive Substances Name: East Grinstead Research Trust Location: Blond McIndoe Centre, Queen Victoria Hospital, Holtye Road, EAST GRINSTEAD, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: AC2497 Dated: 31st March 1991 Process Type: Not Supplied Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Unknown	A18SE (N)	426	2	539889 139245
28	Registered Radioactive Substances Name: Blond Mcindoe Centre Location: Blond McIndoe Centre, Queen Victoria Hospital, Holtye Road, East Grinstead, West Sussex, RH19 3DZ Authority: Environment Agency, Southern Region Permit Reference: CB2865 Dated: 26th July 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Manually positioned to the address or location	A18SE (N)	441	2	539779 139297
	River Quality Name: Shovelstrode Strm GQA Grade: River Quality B Reach: Medway Conf - East Grinstead Estimated Distance (km): 11 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14NW (E)	341	2	540095 138896
29	Water Abstractions Operator: South East Water Plc Licence Number: 9/40/03/0374/Gr Permit Version: 100 Location: Boreholes At Hackenden Ps, East Grinstead (East Of Railway) 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 October Authorised End: 30 September Permit Start Date: 7th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	845	2	539820 139700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Water Abstractions Operator: South East Water Plc Licence Number: 9/40/03/0374/Gr Permit Version: 100 Location: Boreholes At Hackenden Ps, East Grinstead (West Of Railway) 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 October Authorised End: 30 September Permit Start Date: 7th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	957	2	539670 139820
31	Water Industry Act Referrals Name: Deutsch Ltd Location: FACTORY NO 2, CHARLSWOODS ROAD, EAST GRINSTEAD, WEST SUSSEX Authority: Environment Agency, Southern Region Permit Reference: AE9280 Dated: 26th March 1992 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	619	2	539143 139164
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 46 East Sussex Scale: 1:100,000	A13SW (SE)	0	2	539713 138807
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SE)	0	1	539713 138807
	Superficial Aquifer Designations No Data Available				
	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				
32	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A13SE (E)	55	4	539822 138784
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A13SE (E)	60	4	539827 138797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A13SE (E)	64	4	539831 138787
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14NW (E)	337	4	540099 138856
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14NW (E)	462	4	540213 138925
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	538	4	539232 139152
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	540	4	539230 139152
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	545	4	539251 139187
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A12NE (NW)	555	4	539165 139067
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 397.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14NW (E)	566	4	540322 138913
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 507.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14NW (E)	566	4	540322 138913

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SW (E)	575	4	540315 138617
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NW (SE)	626	4	540261 138406
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	658	4	539267 139360
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NE (N)	674	4	539728 139537
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NW (N)	688	4	539633 139548
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	708	4	539263 139420
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 668.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A17SE (NW)	724	4	539275 139449
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	730	4	540477 138620
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NW (N)	732	4	539584 139586

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	736	4	540482 138616
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	736	4	540482 138616
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NW (SE)	740	4	540203 138192
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NW (SE)	740	4	540205 138193
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NW (SE)	757	4	540265 138219
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NW (SE)	779	4	540304 138226
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 166.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	792	4	540510 138517
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NW (N)	795	4	539608 139653
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A18NW (N)	805	4	539584 139660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9SW (SE)	814	4	540200 138098
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	842	4	540406 138242
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	843	4	540407 138242
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	865	4	540632 138766
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A14SE (E)	866	4	540633 138764
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 220.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	882	4	540483 138276
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 179.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	882	4	540483 138277
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	926	4	540602 138392
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	928	4	540604 138393

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 334.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A9NE (SE)	930	4	540606 138391
71	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A8SE (S)	955	4	539924 137828
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A7SW (SW)	957	4	539027 138066
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A8SE (S)	959	4	539929 137825
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A7SW (SW)	977	4	538975 138090
75	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A8SE (S)	977	4	539951 137812
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A8SE (S)	986	4	539967 137807
77	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A8SE (S)	993	4	539975 137802
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Medway Primacy: 1	A7SW (SW)	996	4	539031 138009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Historical Landfill Sites Licence Holder: East Surrey Water Company Location: East Grinstead, Surrey Name: Eden Vale Sewage Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11730 First Input Date: 31st December 1949 Last Input Date: 31st December 1973 Specified Waste: Deposited Waste included Commercial, Household and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3600/0280 BGS Ref: Not Supplied Other Ref: S/17, TA/31/L4, TA/29	A17NE (NW)	967	2	539271 139730
80	Licensed Waste Management Facilities (Locations) Licence Number: 10048 Location: Dec Uk Branch, Greenstede House, Wood Street, East Grinstead, West Sussex, RH19 1UZ Operator Name: Deme Environmental Contractors Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Mobile Plant Licence Status: Modified Issued: 23rd April 2002 Last Modified: 20th October 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	793	2	539034 138310
81	Licensed Waste Management Facilities (Locations) Licence Number: 10047 Location: Dec Uk Branch, Greenstede House, Wood Street, East Grinstead, West Sussex, RH19 1UZ Operator Name: Deme Environmental Contractors Nv Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Mobile Plant Licence Status: Surrendered Issued: 23rd April 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 13th June 2006 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	896	2	538901 138329
	Local Authority Landfill Coverage Name: Mid Sussex District Council - Has supplied landfill data		0	3	539713 138807
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	5	539713 138807
	Local Authority Landfill Coverage Name: Tandridge District Council - Has supplied landfill data		630	7	539553 139476
	Local Authority Landfill Coverage Name: Surrey County Council - Has supplied landfill data		630	6	539553 139476
82	Local Authority Recorded Landfill Sites Location: Sycamore Drive, Estcots Oak, East Grinstead Reference: GR/17/87 Authority: West Sussex County Council, Environment & Development Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A9NE (SE)	744	5	540400 138400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Local Authority Recorded Landfill Sites Location: Old Railway Line To Forest Row, East Grinstead Reference: Not Supplied Authority: West Sussex County Council, Environment & Development Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A9SW (S)	905	5	540066 137925
84	Local Authority Recorded Landfill Sites Location: Eden Vale Sewage Disposal Works, Eden Vale, East Grinstead Reference: TA/31/LU Authority: Surrey County Council Last Reported Status: Not Supplied Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A17NE (NW)	975	6	539265 139736
85	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18SW (NW)	445	-	539423 139212
86	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A12SE (W)	646	-	539048 138668
87	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A17SE (NW)	648	-	539114 139171
88	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A12NW (W)	693	-	539004 139030
89	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A12SW (W)	877	-	538857 138480
90	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A18NW (N)	914	-	539687 139778
91	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A13SE (E)	13	-	539777 138809
92	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A14NW (E)	327	-	540093 138839
93	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A12SE (W)	335	-	539357 138714
94	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A12SE (W)	356	-	539340 138684
95	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A12SE (W)	395	-	539298 138697
96	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A18SW (NW)	405	-	539471 139197
97	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A7NE (SW)	488	-	539295 138469
98	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A18SW (N)	527	-	539625 139385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A14SW (SE)	532	-	540198 138480
100	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A12SE (SW)	546	-	539173 138579
101	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1879	A12SE (W)	563	-	539113 138756
102	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1879	A12SE (W)	581	-	539121 138633
103	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A7NE (SW)	589	-	539339 138283
104	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A9NW (SE)	612	-	540227 138386
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NE (S)	642	-	539974 138172
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A17SE (NW)	685	-	539168 139305
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1950	A17SW (NW)	763	-	539004 139211
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1914	A7NE (SW)	779	-	539217 138137
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1878	A12SW (W)	849	-	538860 138570
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A9SW (SE)	877	-	540338 138124
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A15NW (E)	994	-	540761 138817
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A7NW (W)	994	-	538757 138412

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	Planning Hazardous Substance Consents Name: British Gas Plc Location: East Grinstead Gas Holder Station, Moat Road, Tower Close, EAST GRINSTEAD, West Sussex, RH19 3LN Authority: Mid Sussex District Council Application Ref: GR/274/92HS Hazardous: Part C, Flammable Substance (Not in Parts A&B), Gas or gases flammable in air, when held as a gas, where amount held is >= 15tonnes Substance: Maximum Quantity: 0 Application date: 26th November 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	440	8	539252 138705

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Wealden Group	A13SW (SE)	0	1	539713 138807
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SE)	0	1	539713 138807
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	21	1	539788 138788
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	701	1	540457 138923
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	960	1	540727 138846
114	BGS Recorded Mineral Sites Site Name: Hackenden Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 126898 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SE (N)	331	1	539744 139192
115	BGS Recorded Mineral Sites Site Name: Hackenden Brick Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 127081 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Grinstead Clay Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	530	1	539451 139331

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	BGS Recorded Mineral Sites Site Name: Spring Copse Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 126414 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	709	1	539729 139572
117	BGS Recorded Mineral Sites Site Name: St Mararet'S Brick Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 150536 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Grinstead Clay Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NW (W)	732	1	538965 139035
118	BGS Recorded Mineral Sites Site Name: The Alders Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 126413 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18NW (N)	821	1	539446 139644
118	BGS Recorded Mineral Sites Site Name: The Alders Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 126413 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	821	1	539446 139644
119	BGS Recorded Mineral Sites Site Name: Browns Wood Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 127079 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	937	1	539186 139647
120	BGS Recorded Mineral Sites Site Name: The Alders Sand Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 126675 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Wadhurst Clay Formation Commodity: Mineral Positional Accuracy: Located by supplier to within 10m	A18NW (N)	946	1	539673 139809

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	BGS Recorded Mineral Sites Site Name: Browns Wood Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 127080 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Ardingly Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	963	1	539105 139621
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities Easting: 539800 Northing: 138500 Distance: 274 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: S Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Tunbridge Wells Sand Formation, Wadhurst Clay Formation Superficial Geology: No Details Detail:	A13SE (S)	274	9	539800 138500
	Natural Cavities Easting: 539800 Northing: 138500 Distance: 274 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: S Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Tunbridge Wells Sand Formation, Wadhurst Clay Formation Superficial Geology: No Details Detail:	A13SE (S)	274	9	539800 138500
	Natural Cavities Easting: 539970 Northing: 138410 Distance: 427 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Tunbridge Wells Sand Formation, Wadhurst Clay Formation Superficial Geology: No Details Detail:	A8NE (SE)	427	9	539970 138410
	Natural Cavities Easting: 540000 Northing: 138000 Distance: 811 Quadrant Reference: A8 Quadrant Reference: SE Bearing Ref: S Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Tunbridge Wells Sand Formation, Wadhurst Clay Formation Superficial Geology: No Details Detail:	A8SE (S)	811	9	540000 138000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	21	1	539788 138788
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	539665 138802
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	21	1	539788 138788
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	249	1	540000 138704
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	539713 138807
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	21	1	539788 138788
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	540000 138807
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	249	1	540000 138704
	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	A13SW (SE)	0	1	539713 138807
	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	A13SW (SE)	0	1	539713 138807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Contemporary Trade Directory Entries Name: M J Cleaning Services Location: 13, Greenstede Avenue, East Grinstead, West Sussex, RH19 3HZ Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	152	-	539687 139015
123	Contemporary Trade Directory Entries Name: Expest Location: 47, Elizabeth Crescent, East Grinstead, West Sussex, RH19 3JE Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	234	-	539736 139095
124	Contemporary Trade Directory Entries Name: Just Add Print Ltd Location: Council Offices, East Court, College Lane, East Grinstead, West Sussex, RH19 3LT Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	254	-	539912 138580
125	Contemporary Trade Directory Entries Name: Gordon Laboratory Group Ltd Location: Holtye Road, East Grinstead, West Sussex, RH19 3EB Classification: Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	279	-	539860 139092
125	Contemporary Trade Directory Entries Name: Mcindoe Surgical Centre Location: Holtye Road, East Grinstead, West Sussex, RH19 3EB Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	279	-	539860 139092
126	Contemporary Trade Directory Entries Name: Carpet Care Direct Location: 64, Elizabeth Crescent, East Grinstead, West Sussex, RH19 3JF Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	311	-	539691 139175
127	Contemporary Trade Directory Entries Name: Fork Most Ltd Location: 25, Lynton Park Avenue, East Grinstead, West Sussex, RH19 3XA Classification: Fork Lift Trucks Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	354	-	540047 139019
128	Contemporary Trade Directory Entries Name: P M Braim Quality Wood Finishers Location: 7, St. Margarets Road, East Grinstead, West Sussex, RH19 3JH Classification: French Polishing Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	364	-	539625 139220
129	Contemporary Trade Directory Entries Name: Queen Victoria Hospital Location: Holtye Road, East Grinstead, RH19 3DZ Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	365	-	539823 139207
129	Contemporary Trade Directory Entries Name: Blond Mcindoe Research Foundation Location: Queen Victoria Hospital, Holtye Road, East Grinstead, West Sussex, RH19 3DZ Classification: Medical & Dental Laboratories Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	373	-	539834 139212
129	Contemporary Trade Directory Entries Name: Queen Victoria Hospital Location: Holtye Road, East Grinstead, West Sussex, RH19 3DZ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	373	-	539834 139212

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Contemporary Trade Directory Entries Name: Fernwood Polishing Location: 67, Moat Road, East Grinstead, West Sussex, RH19 3LJ Classification: French Polishing Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	435	-	539282 138603
131	Contemporary Trade Directory Entries Name: Gatwick Metals Location: 53, Moat Road, East Grinstead, RH19 3LJ Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	439	-	539257 138676
132	Contemporary Trade Directory Entries Name: Logos 4 Life Ltd Location: 7a, De la Warr Road, East Grinstead, West Sussex, RH19 3BS Classification: T-Shirts Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	484	-	539565 138289
133	Contemporary Trade Directory Entries Name: Simon Carves Ltd Location: 2, Estcots Drive, East Grinstead, West Sussex, RH19 3DA Classification: Chemical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	485	-	539809 138284
134	Contemporary Trade Directory Entries Name: Bathglaze Location: 6, Christopher Road, East Grinstead, West Sussex, RH19 3BT Classification: Bath Resurfacing Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	498	-	539485 138302
134	Contemporary Trade Directory Entries Name: Bath Glaze Uk Location: 6, Christopher Road, East Grinstead, West Sussex, RH19 3BT Classification: Bath Resurfacing Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	498	-	539485 138302
134	Contemporary Trade Directory Entries Name: Business & Domestic Cleaning Ltd Location: 12, Christopher Road, East Grinstead, West Sussex, RH19 3BT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	509	-	539453 138306
135	Contemporary Trade Directory Entries Name: Briggs Waste Disposal Ltd Location: A, 31, Hackenden Close, East Grinstead, West Sussex, RH19 3DS Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	531	-	539365 139276
136	Contemporary Trade Directory Entries Name: West Sussex Joinery Location: 3, Merlin Way, East Grinstead, West Sussex, RH19 3XG Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	541	-	540190 139140
137	Contemporary Trade Directory Entries Name: M D Phillips Appliances Location: 44, Hackenden Close, East Grinstead, West Sussex, RH19 3DS Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	578	-	539439 139378
138	Contemporary Trade Directory Entries Name: Pharma Machines Ltd Location: 12, Charlwoods Road, East Grinstead, RH19 2HU Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	592	-	539157 139134
138	Contemporary Trade Directory Entries Name: Roy Dixon Associates Location: 12, Charlwoods Road, East Grinstead, West Sussex, RH19 2HU Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	592	-	539157 139134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Contemporary Trade Directory Entries Name: Wedding Stationery Location: 43, Court Crescent, East Grinstead, West Sussex, RH19 3TP Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	603	-	540014 138233
140	Contemporary Trade Directory Entries Name: Stainless Steel Fixings Ltd Location: 10, Charlwoods Road, East Grinstead, West Sussex, RH19 2HU Classification: Stainless Steel Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	611	-	539106 139071
141	Contemporary Trade Directory Entries Name: Quality Agency & Regency Supplies Location: 89b, London Road, East Grinstead, RH19 1EQ Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	612	-	539346 138250
141	Contemporary Trade Directory Entries Name: J R Ices Location: 94, London Road, East Grinstead, West Sussex, RH19 1EP Classification: Ice Cream Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	539327 138220
141	Contemporary Trade Directory Entries Name: Prontaprint Location: 102b, London Road, East Grinstead, West Sussex, RH19 1EP Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	659	-	539305 138221
142	Contemporary Trade Directory Entries Name: Caffyns Plc Location: 12-14, King Street, East Grinstead, West Sussex, RH19 3DJ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	612	-	539437 138199
142	Contemporary Trade Directory Entries Name: Robert Dyas Ltd Location: 61-63, London Road, EAST GRINSTEAD, West Sussex, RH19 1EQ Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	617	-	539393 138216
143	Contemporary Trade Directory Entries Name: A C T Performance Products Location: Ashdown House, Charlwoods Road, East Grinstead, RH19 2HJ Classification: Car Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	619	-	539086 139042
143	Contemporary Trade Directory Entries Name: Faral Radiators Location: Tropical House, Charlwoods Road, East Grinstead, West Sussex, RH19 2HJ Classification: Central Heating Supplies & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	619	-	539087 139046
143	Contemporary Trade Directory Entries Name: Black & Stevenson Engineering Ltd Location: 11a Charlwoods Industrial Estate, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Precision Engineers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	648	-	539054 139041
143	Contemporary Trade Directory Entries Name: Fire Testing Technology Location: Unit 19, Charlwoods Road, EAST GRINSTEAD, West Sussex, RH19 2HL Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	664	-	539049 139072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	Contemporary Trade Directory Entries Name: June Bridge Ltd Location: 4, Cantelupe Mews, Cantelupe Road, East Grinstead, West Sussex, RH19 3BG Classification: Lingerie Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	624	-	539502 138161
144	Contemporary Trade Directory Entries Name: C E C Engineering Services Ltd Location: 2, Cantelupe Mews, Cantelupe Road, East Grinstead, West Sussex, RH19 3BG Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	625	-	539483 138167
144	Contemporary Trade Directory Entries Name: June Bridge Ltd Location: The Old Mill, 45, London Road, East Grinstead, West Sussex, RH19 1AW Classification: Lingerie Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	653	-	539489 138135
145	Contemporary Trade Directory Entries Name: Ironing Services By Mandy Location: 33, Elm Drive, East Grinstead, West Sussex, RH19 3UH Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	626	-	540161 138303
146	Contemporary Trade Directory Entries Name: Disco Hi-Tec Ltd Location: Second Floor, 151, London Road, East Grinstead, West Sussex, RH19 1ET Classification: Cutting Tools & Machinery Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	631	-	539159 138413
146	Contemporary Trade Directory Entries Name: Shell (UK) Ltd Location: Linx House, 147-149, London Road, East Grinstead, West Sussex, RH19 1ET Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	635	-	539175 138383
146	Contemporary Trade Directory Entries Name: Jewson Location: 153-157, London Road, East Grinstead, West Sussex, RH19 1EU Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	639	-	539146 138420
146	Contemporary Trade Directory Entries Name: Builder Center Location: 153-157, London Road, East Grinstead, West Sussex, RH19 1EU Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	639	-	539146 138420
146	Contemporary Trade Directory Entries Name: Jewson Location: 153-157, London Road, East Grinstead, RH19 1EU Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	650	-	539142 138405
146	Contemporary Trade Directory Entries Name: Fuel Fixer Location: Linx House 147-149, London Road, East Grinstead, West Sussex, RH19 1ET Classification: Breakdown and Recovery Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	658	-	539114 138437
146	Contemporary Trade Directory Entries Name: Fuel Fixer Location: Linx House, 147-149 London Road, East Grinstead, West Sussex, RH19 1ET Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	658	-	539114 138437

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Contemporary Trade Directory Entries Name: B W Fish Location: 14, Copse Close, East Grinstead, West Sussex, RH19 3EF Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	632	-	540069 139377
148	Contemporary Trade Directory Entries Name: General Cleaning Location: 53, Tower Close, East Grinstead, West Sussex, RH19 3RT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	635	-	539064 138644
148	Contemporary Trade Directory Entries Name: Gatwick Motorworld Location: Tower Close, East Grinstead, West Sussex, RH19 3RT Classification: Car Dealers - Used Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	663	-	539033 138657
149	Contemporary Trade Directory Entries Name: Aaran Pest Control Location: 70, Kennedy Avenue, East Grinstead, West Sussex, RH19 2DG Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	638	-	539147 139204
150	Contemporary Trade Directory Entries Name: E M S Location: Medway House, 18-22, Cantelupe Road, East Grinstead, West Sussex, RH19 3BJ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	639	-	539577 138127
150	Contemporary Trade Directory Entries Name: Ems Design & Print Location: Medway House, 18-22, Cantelupe Road, East Grinstead, West Sussex, RH19 3BJ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	639	-	539577 138127
150	Contemporary Trade Directory Entries Name: Briggs Waste Disposal Ltd Location: The Market House, Cantelupe Rd, East Grinstead, West Sussex, RH19 3BL Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	639	-	539551 138133
150	Contemporary Trade Directory Entries Name: Ems Ltd Location: Medway House, 18-22 Cantelupe Rd, East Grinstead, West Sussex, RH19 3BJ Classification: Digital Printing Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (S)	641	-	539576 138126
151	Contemporary Trade Directory Entries Name: Tower Car Sales Location: Tower Close, East Grinstead, RH19 3RT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	642	-	539069 138589
152	Contemporary Trade Directory Entries Name: Insulated Tools Location: Charlwoods Road, East Grinstead, West Sussex, RH19 2HR Classification: Builders' Tools & Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	653	-	539031 138973
152	Contemporary Trade Directory Entries Name: Allan Hayes Engineering Ltd Location: Unit 8c-8d, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	662	-	539019 138955

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	Contemporary Trade Directory Entries Name: Allan Hayes Engineering Location: Unit 8c-8d, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	662	-	539019 138955
152	Contemporary Trade Directory Entries Name: Eden River Press Ltd Location: Unit C, Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	692	-	538997 138999
152	Contemporary Trade Directory Entries Name: Classic Components Location: Unit B, Charlwoods Business Centre, East Grinstead, RH19 2HH Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	693	-	538994 138990
152	Contemporary Trade Directory Entries Name: Conscious Chocolate Location: Unit C, Charlwoods Business Centre, East Grinstead, RH19 2HH Classification: Confectionery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	695	-	538995 139004
152	Contemporary Trade Directory Entries Name: Precise Print Finishers Location: Unit D, Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Print Finishers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	705	-	538986 139010
152	Contemporary Trade Directory Entries Name: The Daily Bake Ltd Location: Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Confectionery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (W)	712	-	538976 138996
152	Contemporary Trade Directory Entries Name: Premier Reclaimed Brick Merchants Location: Jewels Place, Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	735	-	538956 139011
153	Contemporary Trade Directory Entries Name: Press It Dry Location: 2, Lambourn Close, East Grinstead, West Sussex, RH19 2DP Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	656	-	539249 139342
154	Contemporary Trade Directory Entries Name: The Radiator Company Location: 13, Charlwoods Road, East Grinstead, RH19 2HU Classification: Central Heating Supplies & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	657	-	539094 139155
154	Contemporary Trade Directory Entries Name: Aitchee Engineering Ltd Location: Unit 18, Charlwoods Road, East Grinstead, West Sussex, RH19 2HL Classification: Sheet Metal Work Status: Active Positional Accuracy: Manually positioned to the address or location	A12NE (NW)	665	-	539067 139117
154	Contemporary Trade Directory Entries Name: Sussex Pharmaceutical Ltd Location: Charlwoods Road, East Grinstead, West Sussex, RH19 2HL Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	665	-	539067 139117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Contemporary Trade Directory Entries Name: Network Electronics Location: 9, Alders View Drive, East Grinstead, West Sussex, RH19 2DN Classification: Fibre Optics Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	673	-	539318 139417
156	Contemporary Trade Directory Entries Name: The Village Garage Location: Unit 7, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	681	-	538996 138933
157	Contemporary Trade Directory Entries Name: E G M S Ltd Location: Ashdown House, 140-144, London Road, East Grinstead, West Sussex, RH19 1ES Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	685	-	539141 138347
158	Contemporary Trade Directory Entries Name: J & D Autos Ltd Location: 1, Charlwoods Place, East Grinstead, West Sussex, RH19 2HY Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	690	-	539044 139129
158	Contemporary Trade Directory Entries Name: J & D Autos Ltd Location: 1, Charlwoods Place, East Grinstead, West Sussex, RH19 2HY Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	690	-	539044 139129
158	Contemporary Trade Directory Entries Name: Autarky Automation Location: Charlwoods Place, EAST GRINSTEAD, West Sussex, RH19 2HY Classification: Automation Systems & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	734	-	539013 139167
158	Contemporary Trade Directory Entries Name: Printmark Ltd Location: Unit 21c, Durkins Road, EAST GRINSTEAD, West Sussex, RH19 2ER Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (NW)	734	-	538998 139132
159	Contemporary Trade Directory Entries Name: Supasnaps Location: 48, London Road, East Grinstead, West Sussex, RH19 1AB Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	691	-	539417 138122
160	Contemporary Trade Directory Entries Name: Blindmasters Uk Ltd Location: 123, Charlwoods Road, East Grinstead, West Sussex, RH19 2JE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	703	-	539156 139318
160	Contemporary Trade Directory Entries Name: Goodnite Sleep Tite Location: 123, Charlwoods Road, East Grinstead, West Sussex, RH19 2JE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	703	-	539156 139318
161	Contemporary Trade Directory Entries Name: Printintime Location: 174, London Road, East Grinstead, RH19 1ES Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	705	-	539068 138423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	Contemporary Trade Directory Entries Name: Arthur Broad Associates Location: 174-174a, London Road, East Grinstead, West Sussex, RH19 1ES Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	706	-	539067 138423
161	Contemporary Trade Directory Entries Name: East Grinstead Cleaners Location: 180, London Road, East Grinstead, West Sussex, RH19 1EY Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	719	-	539046 138435
162	Contemporary Trade Directory Entries Name: I B S Copier Service Ltd Location: 20, Railway Approach, East Grinstead, West Sussex, RH19 1BP Classification: Photocopiers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	712	-	539220 138221
162	Contemporary Trade Directory Entries Name: Bowecare Cleaners Location: 24, Railway Approach, East Grinstead, West Sussex, RH19 1BP Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	718	-	539211 138221
163	Contemporary Trade Directory Entries Name: Environmental Contract Services Ltd Location: Unit 21a, Durkins Road, East Grinstead, West Sussex, RH19 2ER Classification: Razor Blade Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (NW)	730	-	538993 139111
164	Contemporary Trade Directory Entries Name: Barston Chemical Services Location: 49b, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	730	-	539164 138250
164	Contemporary Trade Directory Entries Name: Oakfields Of East Grinstead Location: 49b, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	730	-	539164 138250
164	Contemporary Trade Directory Entries Name: Overton Automotive Centre Location: 49b, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	730	-	539164 138250
164	Contemporary Trade Directory Entries Name: Baxters Location: Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	775	-	539131 138218
165	Contemporary Trade Directory Entries Name: Advanced Ergonomic Technologies Ltd Location: 201-203, London Road, East Grinstead, RH19 1HA Classification: Air Conditioning Equipment & Systems Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	731	-	538996 138524
165	Contemporary Trade Directory Entries Name: M P Serv Ltd Location: 201-203, London Road, East Grinstead, RH19 1HA Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	731	-	538996 138524
165	Contemporary Trade Directory Entries Name: Corralls Location: 202, London Road, East Grinstead, West Sussex, RH19 1EY Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (SW)	753	-	538984 138491

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	Contemporary Trade Directory Entries Name: Elite Printing Services Location: 1, Station Road, East Grinstead, West Sussex, RH19 1DJ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (SW)	763	-	538972 138495
166	Contemporary Trade Directory Entries Name: C P Metal Traders Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	734	-	538944 138945
166	Contemporary Trade Directory Entries Name: Pat'S Garage Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	734	-	538944 138945
166	Contemporary Trade Directory Entries Name: Rose Services M O T Bay Location: Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	734	-	538944 138945
166	Contemporary Trade Directory Entries Name: Windsor Tyre & Brake Location: Unit 37, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	734	-	538944 138945
166	Contemporary Trade Directory Entries Name: Vision Logistica Ltd Location: Unit P, Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	737	-	538947 138978
166	Contemporary Trade Directory Entries Name: Autobody Care Location: Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (W)	738	-	538946 138978
167	Contemporary Trade Directory Entries Name: Diplomatic Transshipment Services Ltd Location: Unit 5, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	736	-	538935 138867
167	Contemporary Trade Directory Entries Name: Colorscope Location: Charlwoods Road, East Grinstead, West Sussex, RH19 2HF Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	769	-	538901 138846
167	Contemporary Trade Directory Entries Name: Colorscope Location: Charlwoods Road, East Grinstead, West Sussex, RH19 2HF Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	769	-	538901 138846
168	Contemporary Trade Directory Entries Name: Merlin Industrial Services Location: 55, Merlin Way, East Grinstead, West Sussex, RH19 3XG Classification: Ventilators & Ventilation Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	739	-	540328 139285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	Contemporary Trade Directory Entries Name: Curry's Location: 17, London Road, East Grinstead, West Sussex, RH19 1AL Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	743	-	539482 138044
170	Contemporary Trade Directory Entries Name: Cityown Ltd Location: Unit M, Charlwoods Business Centre, East Grinstead, West Sussex, RH19 2HH Classification: Hydraulic Systems & Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	758	-	538938 139035
171	Contemporary Trade Directory Entries Name: Langley Oak Ltd Location: 5, St. James Road, East Grinstead, West Sussex, RH19 1DL Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	761	-	539014 138405
172	Contemporary Trade Directory Entries Name: The Stove & Fireplace Centre Location: 77, High Street, East Grinstead, West Sussex, RH19 3DD Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	773	-	539732 137984
173	Contemporary Trade Directory Entries Name: T N K Engineering Ltd Location: 68a, Estcots Drive, East Grinstead, West Sussex, RH19 3DB Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	778	-	540457 138431
174	Contemporary Trade Directory Entries Name: F A Anderson Location: 49a, High Street, East Grinstead, West Sussex, RH19 3AF Classification: Gunsmiths Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	789	-	539643 137969
174	Contemporary Trade Directory Entries Name: F A Anderson Location: 49a, High Street, East Grinstead, West Sussex, RH19 3AF Classification: Gunsmiths Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	789	-	539643 137969
174	Contemporary Trade Directory Entries Name: F A Anderson Country Clothing Location: 49, High Street, East Grinstead, RH19 3AS Classification: Gunsmiths Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	790	-	539636 137968
174	Contemporary Trade Directory Entries Name: Print Room Location: 6, Middle Row, East Grinstead, West Sussex, RH19 3AX Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	811	-	539624 137948
174	Contemporary Trade Directory Entries Name: Elite Print & Embroidery Ltd Location: 6, Middle Row, EAST GRINSTEAD, West Sussex, RH19 3AX Classification: T-Shirts Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	811	-	539621 137948
175	Contemporary Trade Directory Entries Name: Sungu Ltd Location: Swan Court, 4 London Road, East Grinstead, West Sussex, RH19 1AG Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	799	-	539458 137992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	Contemporary Trade Directory Entries Name: One Stop Photos Location: 2, Swan Court, 4, London Road, East Grinstead, West Sussex, RH19 1AG Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	803	-	539461 137988
176	Contemporary Trade Directory Entries Name: Oce Location: 3, Betchley Close, East Grinstead, West Sussex, RH19 2DA Classification: Office Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	799	-	539041 139331
177	Contemporary Trade Directory Entries Name: Clarks Auto Repairs Location: 213-217, London Road, East Grinstead, West Sussex, RH19 1HD Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	806	-	538896 138609
177	Contemporary Trade Directory Entries Name: Meadway Garage Location: 213-217, London Road, East Grinstead, West Sussex, RH19 1HD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	806	-	538896 138609
177	Contemporary Trade Directory Entries Name: East Grinstead Tyre Service Ltd Location: 213-217, London Road, East Grinstead, RH19 1HD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	814	-	538888 138609
177	Contemporary Trade Directory Entries Name: Clark M O T & Service Centre Location: 213-217, London Road, East Grinstead, RH19 1HD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	814	-	538888 138609
178	Contemporary Trade Directory Entries Name: Bulldog Motor Co Ltd Location: 69, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	806	-	539075 138234
178	Contemporary Trade Directory Entries Name: Tower Car Sales 2 Location: 69, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	806	-	539075 138234
178	Contemporary Trade Directory Entries Name: A To B Autos Location: 69, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	806	-	539075 138234
178	Contemporary Trade Directory Entries Name: Railway Approach Cars Location: 69, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	806	-	539075 138234
178	Contemporary Trade Directory Entries Name: Bm Autos Location: 69, Railway Approach, East Grinstead, West Sussex, RH19 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	806	-	539075 138234
178	Contemporary Trade Directory Entries Name: Railway Approach Cars Location: 75, Railway Approach, East Grinstead, RH19 1BT Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	826	-	539053 138230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	Contemporary Trade Directory Entries Name: The Washday Laundrette Location: 90, Railway Approach, East Grinstead, West Sussex, RH19 1BP Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	842	-	539057 138201
179	Contemporary Trade Directory Entries Name: Rentokil Property Care Location: East Grinstead House, Wood Street, East Grinstead, RH19 1UZ Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	813	-	539013 138305
179	Contemporary Trade Directory Entries Name: Rentokil Property Care Location: East Grinstead House, Wood Street, East Grinstead, RH19 1UZ Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	813	-	539013 138305
180	Contemporary Trade Directory Entries Name: Johnson Cleaners (UK) Ltd Location: Unit 3, Queens Walk, East Grinstead, West Sussex, RH19 4DW Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	816	-	539336 138021
181	Contemporary Trade Directory Entries Name: The Bookshop Location: The Round House, High Street, East Grinstead, West Sussex, RH19 3AW Classification: Plastics - Raw Materials Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	820	-	539460 137970
181	Contemporary Trade Directory Entries Name: Escort Dry Cleaners Location: 6, West Street, East Grinstead, West Sussex, RH19 4EQ Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	837	-	539413 137966
181	Contemporary Trade Directory Entries Name: V West Street Laundry Location: 10, West Street, East Grinstead, West Sussex, RH19 4EQ Classification: Laundries & Launderettes Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	838	-	539402 137970
182	Contemporary Trade Directory Entries Name: Wins International Location: 21, Durkins Road, East Grinstead, West Sussex, RH19 2ER Classification: Classic Car Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	826	-	538878 139072
183	Contemporary Trade Directory Entries Name: Holtye Windows Ltd Location: Station Road, East Grinstead, West Sussex, RH19 1DJ Classification: Window Frame Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	836	-	538923 138421
184	Contemporary Trade Directory Entries Name: B M D Trading Ltd Location: Unit 3, Wellington Town Road, East Grinstead, West Sussex, RH19 2ES Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	842	-	538836 138952
185	Contemporary Trade Directory Entries Name: Ashdown Motor Services Location: Unit 9, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	842	-	538830 138893
185	Contemporary Trade Directory Entries Name: D S Print Ltd Location: 7, Charlwoods Road, East Grinstead, West Sussex, RH19 2HG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	842	-	538830 138893

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	Contemporary Trade Directory Entries Name: Dagenham Motors Ltd Location: 220, London Road, East Grinstead, West Sussex, RH19 1HF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	847	-	538863 138565
186	Contemporary Trade Directory Entries Name: Rentokil Pest Control Location: Rentokil House, Garland Road, East Grinstead, West Sussex, RH19 1DY Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	851	-	538869 138529
187	Contemporary Trade Directory Entries Name: Ashdown Electronics Location: 74, Queens Road, East Grinstead, West Sussex, RH19 1BD Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	862	-	539242 138019
188	Contemporary Trade Directory Entries Name: Colin Pomeroy Location: B, 69, Lingfield Road, East Grinstead, West Sussex, RH19 2EP Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	881	-	538810 139027
189	Contemporary Trade Directory Entries Name: Building Structures Associates Location: The Hermitage, Hermitage Road, East Grinstead, West Sussex, RH19 2BX Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	901	-	538926 139346
190	Contemporary Trade Directory Entries Name: Blindstar Location: 7, Hollands Court, East Grinstead, West Sussex, RH19 3EX Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	902	-	540181 139626
190	Contemporary Trade Directory Entries Name: J & J Services Location: 36, Woodlands Road, East Grinstead, West Sussex, RH19 3EL Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	937	-	540208 139651
191	Contemporary Trade Directory Entries Name: Esso Location: 27, Station Road, East Grinstead, West Sussex, RH19 1DJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	906	-	538905 138302
191	Contemporary Trade Directory Entries Name: Brooklands Service Station Location: 27, Station Road, East Grinstead, West Sussex, RH19 1DJ Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	912	-	538899 138301
192	Contemporary Trade Directory Entries Name: Api Office Furniture Service Location: 56, Fairfield Road, East Grinstead, West Sussex, RH19 4HB Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	911	-	539915 137871
193	Contemporary Trade Directory Entries Name: Ashdown Veterinary Services Location: 27, Portland Road, East Grinstead, West Sussex, RH19 4EB Classification: Veterinary Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	924	-	539591 137838
194	Contemporary Trade Directory Entries Name: Rentokil Specialist Hygiene Location: Garland Court, Garland Road, East Grinstead, West Sussex, RH19 1DN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	927	-	538804 138481

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Contemporary Trade Directory Entries Name: Gutter Cleaners Southampton Location: Garland Court, East Grinstead, West Sussex, RH19 1DN Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	927	-	538804 138481
194	Contemporary Trade Directory Entries Name: Rentokil Pest Control Location: Garland Ct, Garland Rd, East Grinstead, West Sussex, RH19 1DN Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	927	-	538804 138481
194	Contemporary Trade Directory Entries Name: Rentokil Pest Control Location: Garland Ct, Garland Rd, East Grinstead, West Sussex, RH19 1DN Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	927	-	538804 138481
194	Contemporary Trade Directory Entries Name: Rentokil Property Care Location: Garland Court, Garland Road, East Grinstead, West Sussex, RH19 1DN Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	927	-	538804 138481
195	Contemporary Trade Directory Entries Name: Sorrell Bros Location: 137a, West Street, East Grinstead, RH19 4EN Classification: Gunsmiths Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	989	-	539126 137944
195	Contemporary Trade Directory Entries Name: Affordable Appliances Ltd Location: 133, Queens Road, East Grinstead, West Sussex, RH19 1BE Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	997	-	539104 137950
195	Contemporary Trade Directory Entries Name: East Grinstead Guns Ltd Location: 137, West Street, East Grinstead, West Sussex, RH19 4EN Classification: Gunsmiths Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	999	-	539125 137933
196	Contemporary Trade Directory Entries Name: Aspiring Angels Location: 100 West View Gdns, East Grinstead, West Sussex, RH19 4EH Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	989	-	539251 137870
197	Contemporary Trade Directory Entries Name: Helping Hands Domestic Agency Location: 3, Kingfisher Rise, East Grinstead, West Sussex, RH19 4TE Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	991	-	539755 137767
198	Fuel Station Entries Name: East Grinstead Service Station Location: 147-149, London Road , , East Grinstead, West Sussex, RH19 1ET Brand: Jet Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A7NE (SW)	635	-	539175 138383
199	Fuel Station Entries Name: Rss Brooklands Location: 27, Station Road , , East Grinstead, West Sussex, RH19 1DJ Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A7NW (SW)	906	-	538905 138302

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	Points of Interest - Commercial Services Name: Expest Location: 47 Elizabeth Crescent, East Grinstead, RH19 3JE Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NE (N)	233	10	539736 139094
200	Points of Interest - Commercial Services Name: Expest Location: 47 Elizabeth Crescent, East Grinstead, RH19 3JE Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NE (N)	234	10	539736 139095
201	Points of Interest - Commercial Services Name: Ashdown Motor Services Location: Unit 9 Ashdown House, Charlwoods Road, East Grinstead, RH19 2HJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	620	10	539086 139046
202	Points of Interest - Commercial Services Name: Fuel Fixer Location: Linx House 147-149, London Road, East Grinstead, RH19 1ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	636	10	539174 138383
203	Points of Interest - Commercial Services Name: Hender Garage Location: Parkfield Motors, Tower Close, East Grinstead, RH19 3RT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (W)	642	10	539069 138590
204	Points of Interest - Commercial Services Name: The Village Garage Location: Unit 7, Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	682	10	538995 138932
204	Points of Interest - Commercial Services Name: C P Metal Traders Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: Rose Services M O T Bay Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: The Village Garage Location: 37 Charlwoods Road, East Grinstead, RH19 2HL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: Rose Services Location: Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: Pat's Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: Pat's Garage Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Points of Interest - Commercial Services Name: Pats Garage Location: Unit 37, Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	734	10	538944 138945
204	Points of Interest - Commercial Services Name: Diplomatic Transshipment Services Ltd Location: Unit 5, Charlwoods Road, East Grinstead, RH19 2HG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NW (W)	736	10	538935 138866
205	Points of Interest - Commercial Services Name: T N K Engineering Ltd Location: 68a Escots Drive, East Grinstead, RH19 3DB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (SE)	778	10	540456 138430
206	Points of Interest - Commercial Services Name: Exhibit Freight (International) Ltd Location: 37 High Street, East Grinstead, RH19 3AF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SW (S)	786	10	539586 137978
207	Points of Interest - Commercial Services Name: Clark Auto Repairs Location: Flat 213, London Road, East Grinstead, RH19 1HA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: Clarks Auto Repairs Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: Meadway Garage Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: East Grinstead Tyre Services Ltd Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: Clark MOT & Service Centre Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: East Grinstead Tyre Service Ltd Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138608
207	Points of Interest - Commercial Services Name: Meadway Garage Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138609
207	Points of Interest - Commercial Services Name: Clark M O T & Service Centre Location: 213-217 London Road, East Grinstead, RH19 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	806	10	538896 138608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	Points of Interest - Commercial Services Name: Rentokil Location: Rentokil House, Garland Road, East Grinstead, RH19 1DY Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SW (W)	851	10	538869 138529
207	Points of Interest - Commercial Services Name: Rentokil Location: Rentokil House, Garland Road, East Grinstead, RH19 1DY Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SW (W)	851	10	538869 138529
207	Points of Interest - Commercial Services Name: Rentokil Pest Control Location: Garland Court, Garland Road, East Grinstead, RH19 1DY Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SW (W)	851	10	538869 138529
208	Points of Interest - Commercial Services Name: Spiff Up Location: 58 High Street, East Grinstead, RH19 3DE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	829	10	539669 137927
209	Points of Interest - Commercial Services Name: Ashdown Motor Services Location: 9 Charlwoods Road, East Grinstead, RH19 2HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	842	10	538830 138893
210	Points of Interest - Commercial Services Name: Colin Pomeroy Location: B 69 Lingfield Road, East Grinstead, RH19 2EP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	881	10	538810 139027
210	Points of Interest - Commercial Services Name: Colin Pomeroy Location: 69b Lingfield Road, East Grinstead, RH19 2EP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	881	10	538810 139027
211	Points of Interest - Commercial Services Name: Collyers Location: Greenstede House Wood Street, Station Road, East Grinstead, RH19 1UZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (SW)	896	10	538901 138329
211	Points of Interest - Commercial Services Name: Car Wash Location: 27 Station Road, East Grinstead, RH19 1DJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7NW (SW)	912	10	538899 138301
211	Points of Interest - Commercial Services Name: Rss Brooklands Location: 27 Station Road, East Grinstead, RH19 1DJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7NW (SW)	913	10	538898 138301
212	Points of Interest - Commercial Services Name: Fuel Fixer Location: Garland Court, 1 Garland Road, East Grinstead, RH19 1DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	927	10	538804 138481
213	Points of Interest - Commercial Services Name: J & J Services Location: 36 Woodlands Road, East Grinstead, RH19 3EL Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NW (NE)	937	10	540208 139651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Points of Interest - Commercial Services Name: J & J Services Location: 36 Woodlands Road, East Grinstead, RH19 3EL Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NW (NE)	937	10	540208 139651
214	Points of Interest - Education and Health Name: The McIndoe Centre Location: Holtye Road, East Grinstead, RH19 3EB Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	278	10	539860 139091
214	Points of Interest - Education and Health Name: McIndoe Surgical Centre Ltd Location: Holtye Road, East Grinstead, RH19 3EB Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	279	10	539860 139092
214	Points of Interest - Education and Health Name: McIndoe Surgical Centre Ltd Location: Holtye Road, East Grinstead, RH19 3EB Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	279	10	539860 139092
215	Points of Interest - Education and Health Name: Queen Victoria Hospital Location: Holtye Road, East Grinstead, RH19 3DZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18SE (N)	372	10	539833 139211
215	Points of Interest - Education and Health Name: Queen Victoria Hospital (East Grinstead) Location: Holtye Road, East Grinstead, RH19 3DZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18SE (N)	373	10	539834 139212
216	Points of Interest - Education and Health Name: Springvale Cmhc (East Grinstead) Location: 72-74 Moat Road, East Grinstead, RH19 3LH Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A12SE (SW)	386	10	539339 138593
217	Points of Interest - Manufacturing and Production Name: Tanks Location: RH19 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	518	10	539921 139332
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	593	10	539159 139139
218	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	598	10	539153 139138
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	603	10	539125 139096
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	657	10	539073 139112

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	658	10	539098 139163
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	690	10	539045 139131
218	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A17SE (NW)	691	10	539069 139180
218	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	692	10	539069 139182
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	606	10	539109 139068
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	617	10	539088 139042
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	625	10	539065 138995
219	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	662	10	539052 139076
219	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	667	10	539047 139075
220	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	656	10	539026 138962
220	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	671	10	539006 138932
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	706	10	538967 138896

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	711	10	538962 138895
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	740	10	538931 138864
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	745	10	538932 138935
221	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	745	10	538926 138863
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	765	10	538909 138917
221	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	773	10	538898 138851
222	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	726	10	538975 139046
222	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	738	10	538941 138952
222	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	774	10	538918 139022
222	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	775	10	538918 139026
223	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (NW)	740	10	538995 139141
224	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	740	10	539027 138425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
224	Points of Interest - Manufacturing and Production Name: Works Location: RH19 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	741	10	539026 138425
225	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	859	10	539610 137901
226	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	877	10	539490 137903
227	Points of Interest - Manufacturing and Production Name: Tank Location: RH19 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	915	10	540326 138065
228	Points of Interest - Public Infrastructure Name: Mount Noddy Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	64	10	539625 138794
228	Points of Interest - Public Infrastructure Name: Cemetery Location: RH19 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	73	10	539615 138792
229	Points of Interest - Public Infrastructure Name: East Grinstead Police Station Location: East Court, College Lane, East Grinstead, RH19 3LX Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (S)	119	10	539767 138652
230	Points of Interest - Public Infrastructure Name: Briggs Waste Disposal Ltd Location: 31a Hackenden Close, East Grinstead, RH19 3DS Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A17SE (NW)	531	10	539365 139276
231	Points of Interest - Public Infrastructure Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	575	10	539106 138950
231	Points of Interest - Public Infrastructure Name: Burial Ground Location: RH19 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	580	10	539101 138951
232	Points of Interest - Public Infrastructure Name: Shell UK Location: Linx House 147-149, London Road, East Grinstead, RH19 1ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	635	10	539175 138383
232	Points of Interest - Public Infrastructure Name: Shell Sussex Location: Linx House 147-149, London Road, East Grinstead, RH19 1ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	635	10	539175 138383

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	Points of Interest - Public Infrastructure Name: East Grinstead Service Station Location: Linx House, 147-149, London Road, East Grinstead, RH19 1ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	636	10	539174 138383
233	Points of Interest - Public Infrastructure Name: East Grinstead Fire Station Location: London Road, East Grinstead, RH19 1QS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A12SW (W)	717	10	539000 138556
234	Points of Interest - Public Infrastructure Name: Esso Location: 27 Station Road, East Grinstead, RH19 1DJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	907	10	538905 138301
234	Points of Interest - Public Infrastructure Name: Rss Brooklands Location: 27 Station Road, East Grinstead, RH19 1DJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	907	10	538905 138301
234	Points of Interest - Public Infrastructure Name: Brooklands Service Station Location: 27 Station Road, East Grinstead, RH19 1DJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	912	10	538899 138301
235	Points of Interest - Public Infrastructure Name: Cemetery Location: RH19 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	911	10	539118 138047
236	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Blackwell Hollow, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SE (SE)	230	10	539823 138554
236	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	233	10	539824 138552
237	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	315	10	539376 138719
237	Points of Interest - Recreational and Environmental Name: Playground Location: St John'S Road, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	315	10	539376 138719
238	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	602	10	539226 138371
239	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	830	10	539155 138121

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
239	Points of Interest - Recreational and Environmental Name: Playground Location: Orchard Way, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	834	10	539149 138121
240	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	854	10	540176 139572
240	Points of Interest - Recreational and Environmental Name: Playground Location: Hollands Way, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	854	10	540176 139573
241	Points of Interest - Recreational and Environmental Name: Playground Location: Mindelheim Avenue, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	876	10	540620 138590
241	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	883	10	540627 138591
242	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	970	10	538717 139017
242	Points of Interest - Recreational and Environmental Name: Playground Location: Windmill Lane, RH19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12NW (W)	972	10	538715 139018

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	Ancient Woodland Name: Blackwell Wood Reference: 1480541 Area(m ²): 8919.28 Type: Ancient and Semi-Natural Woodland	A13SE (E)	155	11	539917 138751
244	Ancient Woodland Name: Estcotts Drive Shaw Reference: 1480534 Area(m ²): 7184.63 Type: Ancient and Semi-Natural Woodland	A13SE (SE)	401	11	540016 138475
245	Ancient Woodland Name: Ashplats Wood Reference: 1480592 Area(m ²): 250253.23 Type: Ancient and Semi-Natural Woodland	A14NW (NE)	447	11	540162 139010
246	Ancient Woodland Name: Stonequarry Wood Reference: 1480550 Area(m ²): 16846.89 Type: Ancient and Semi-Natural Woodland	A18SE (N)	481	11	539886 139307
247	Ancient Woodland Name: Not Supplied Reference: 1493482 Area(m ²): 9402.93 Type: Ancient and Semi-Natural Woodland	A18SE (N)	597	11	539725 139460
248	Ancient Woodland Name: Not Supplied Reference: 1494508 Area(m ²): 46690.54 Type: Ancient and Semi-Natural Woodland	A18NW (N)	691	11	539600 139547
249	Ancient Woodland Name: Not Supplied Reference: 1493741 Area(m ²): 120515.57 Type: Ancient and Semi-Natural Woodland	A18NE (N)	834	11	539956 139658
250	Ancient Woodland Name: Not Supplied Reference: 1494455 Area(m ²): 14810.47 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	936	11	539142 139615
251	Ancient Woodland Name: Ashplats Wood Reference: 1480568 Area(m ²): 6982.73 Type: Plantation on Ancient Woodland	A15SW (E)	984	11	540737 138625
252	Areas of Adopted Green Belt Authority: Tandridge District Council Plan Name: Tandridge District Local Plan 2001 Status: Adopted Plan Date: 31st December 2001	A18SW (N)	632	12	539552 139478
253	Areas of Adopted Green Belt Authority: Mid Sussex District Council Plan Name: Mid Sussex Local Plan Status: Adopted Plan Date: 31st May 2004	A18NW (N)	650	8	539535 139492
254	Areas of Adopted Green Belt Authority: Mid Sussex District Council Plan Name: Mid Sussex Local Plan Status: Adopted Plan Date: 31st May 2004	A18NW (N)	658	8	539690 139521
255	Areas of Outstanding Natural Beauty Name: High Weald Multiple Areas: Y Total Area (m2): 1461737820.66 Designation Date: 30th October 1983 Source: Natural England	A14NW (NE)	447	11	540162 139010
256	Nitrate Vulnerable Zones Name: Eden Brook East Of Lingfield Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (NW)	131	13	539600 138950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	Nitrate Vulnerable Zones Name: Medway At Weir Wood Nvz Description: Surface Water Source: Environment Agency, Head Office	A8NW (SW)	421	13	539400 138450

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Tandridge District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section Wealden District Council - Environmental Health Department Sevenoaks District Council - Environmental Health Department	January 2013 November 2014 October 2014 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Southern Region Environment Agency - Thames Region	April 2018 April 2018	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - Solent & South Downs Area Environment Agency - South East Region - West Thames Area Environment Agency - Southern Region	April 2018 April 2018 April 2018 April 2018	Quarterly Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Tandridge District Council - Environmental Health Department Wealden District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section Sevenoaks District Council - Environmental Health Department	July 2015 June 2014 September 2014 September 2014	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Tandridge District Council - Environmental Health Department Wealden District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section Sevenoaks District Council - Environmental Health Department	July 2015 June 2014 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Tandridge District Council - Environmental Health Department Wealden District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section Sevenoaks District Council - Environmental Health Department	July 2015 June 2014 September 2014 September 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Southern Region Environment Agency - Thames Region	December 1999 September 1999	Not Applicable Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - Southern Region	January 2015	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register		
Environment Agency - South East Region - Kent & South London Area	April 2018	Quarterly
Environment Agency - South East Region - Solent & South Downs Area	April 2018	Quarterly
Environment Agency - South East Region - West Thames Area	April 2018	Quarterly
Environment Agency - Southern Region - Kent Area	April 2018	Quarterly
Environment Agency - Southern Region - Kent and East Sussex	April 2018	Quarterly
Environment Agency - Southern Region - Solent and South Downs	April 2018	Quarterly
Environment Agency - Southern Region - Sussex Area	April 2018	Quarterly
Water Abstractions		
Environment Agency - Southern Region	April 2018	Quarterly
Environment Agency - Thames Region	April 2018	Quarterly
Water Industry Act Referrals		
Environment Agency - Southern Region	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	May 2018	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	May 2018	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	May 2018	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	May 2018	Quarterly
Flood Defences		
Environment Agency - Head Office	May 2018	Quarterly
OS Water Network Lines		
Ordnance Survey	May 2018	Quarterly
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability		
Environment Agency - Head Office	October 2013	As notified
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	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	April 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - Solent & South Downs Area Environment Agency - South East Region - West Thames Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	April 2018 April 2018 April 2018 April 2018 April 2018 April 2018 April 2018	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - Solent & South Downs Area Environment Agency - South East Region - West Thames Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	April 2018 April 2018 April 2018 April 2018 April 2018 April 2018 April 2018	Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage East Sussex County Council - Waste Management Group Kent County Council - Waste Management Group Mid Sussex District Council - Environmental Services Section Sevenoaks District Council Surrey County Council Tandridge District Council - Environmental Health Department Wealden District Council - Environmental Health Department West Sussex County Council - Environment & Development	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Wealden District Council - Environmental Health Department Tandridge District Council - Environmental Health Department East Sussex County Council - Waste Management Group Kent County Council - Waste Management Group Mid Sussex District Council - Environmental Services Section Sevenoaks District Council West Sussex County Council - Environment & Development Surrey County Council	December 2004 June 2003 May 2000 May 2000 May 2000 May 2000 May 2000 September 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable Not Applicable

Waste	Version	Update Cycle
Registered Waste Treatment or Disposal Sites		
Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Environment Agency - Southern Region - Kent and East Sussex	March 2003	Not Applicable
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
East Sussex County Council - Development Minerals & Waste	February 2016	Variable
Sevenoaks District Council	February 2016	Variable
Surrey County Council	February 2016	Variable
Tandridge District Council	February 2016	Variable
Wealden District Council	February 2016	Variable
Kent County Council	January 2016	Variable
Mid Sussex District Council	January 2016	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
East Sussex County Council - Development Minerals & Waste	February 2016	Variable
Sevenoaks District Council	February 2016	Variable
Surrey County Council	February 2016	Variable
Tandridge District Council	February 2016	Variable
Wealden District Council	February 2016	Variable
Kent County Council	January 2016	Variable
Mid Sussex District Council	January 2016	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	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	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2018	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	June 2018	Quarterly
Points of Interest - Education and Health PointX	June 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2018	Quarterly
Points of Interest - Public Infrastructure PointX	June 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Mid Sussex District Council Sevenoaks District Council Tandridge District Council	February 2018 February 2018 February 2018	As notified As notified As notified
Areas of Unadopted Green Belt Mid Sussex District Council Sevenoaks District Council Tandridge District Council	February 2018 February 2018 February 2018	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	February 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	February 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2018	Bi-Annually
Special Areas of Conservation Natural England	January 2018	Bi-Annually
Special Protection Areas Natural England	February 2018	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	
Peter Brett Associates	

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	Mid Sussex District Council - Environmental Services Section The Oaklands, Oaklands Road, Haywards Heath, West Sussex, RH16 1SS	Telephone: 01444 458166 extn 2288 Fax: 01444 450027 Website: www.midsussex.gov.uk
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	West Sussex County Council - Environment & Development County Hall, Tower hall, Chichester, West Sussex, PO19 1RH	Telephone: 01243 777100 Website: www.westsussex.gov.uk
6	Surrey County Council Penrhyn Road, Kingston-upon-Thames, Surrey, KT1 2DN	Telephone: 020 8541 8800 Fax: 020 8541 9005 Website: www.surreycc.gov.uk
7	Tandridge District Council - Environmental Health Department Council Offices, Station Road East, Oxted, Surrey, RH8 0BT	Telephone: 01883 722000 Fax: 01883 732888 Website: www.tandridgedc.gov.uk
8	Mid Sussex District Council The Oaklands, Oaklands Road, Haywards Heath, West Sussex, RH16 1SS	Telephone: 01444 458166 Fax: 01444 450027 Website: www.midsussex.gov.uk
9	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	Tandridge District Council Council Offices, Station Road East, Oxted, Surrey, RH8 0BT	Telephone: 01883 722000 Fax: 01883 722015 Website: www.tandridgedc.gov.uk
13	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	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

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

APPENDIX C

Machine : Archway Dart

Method : Drive-in Windowless
Sampler

Dimensions

Ground Level (mOD)

111.74

Client

The Guinness Partnership Ltd.

Job
Number
LS3734

Location (Handheld GPS)

539701.941 E 138831.513 N

Dates

09/08/2018-
10/08/2018

Project Contractor

Blackthorn Homes Ltd.

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D			111.64	(0.10) 0.10	Light brown, clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to surrounded, weak sandstone. Abundant roots and rootlets. Glass and china fragments (MADE GROUND).		
0.50	D		PID = 0.0 ppm		(1.00)	Dark brownish black, very gravelly SAND. Sand is fine to medium. Gravels are fine to medium, subangular to subrounded sandstones. Abundant roots and rootlets. Abundant glass, clinker, and metal fragments (MADE GROUND)		
0.80	D		PID = 0.0 ppm					
1.20	D		PID = 0.0 ppm	110.64	1.10	Light orangish brown, mottled grey, slightly gravelly, sandy CLAY. Sand is fine. Gravels are fine to medium, subrounded sandstones. Rare organic fragments, decayed roots and rootlets. (ALLUVIUM)		
1.40	HP 25kPa				(0.50)			
1.60	D			110.14	1.60	Brownish grey, mottled black, sandy, slightly gravelly CLAY. Sand is fine. Gravels are fine to medium subrounded sandstones. Abundant organic fragments, including rare decayed rootlets. Strong peaty odour. (ALLUVIUM)		
1.70	HP 25kPa							
2.00	SV 16.9kPa							
2.00	D							
2.00	HP 37.5kPa							
2.30	HP 25kPa							
2.40	D							
2.60	HP 12.5kPa				(2.10)			
2.80	D							
2.90	HP 12.5kPa							
3.00	SV 62.4kPa							
3.10	D							
3.20	HP 12.5kPa							
3.50	D		PID = 0.0 ppm					
3.80	D			108.04	3.70	Light orangish brown, mottled grey, sandy, slightly gravelly CLAY. Sand is fine. Gravels are fine to medium, weak sandstones. Occasional decayed roots and rootlets. (ALLUVIUM)		
4.00	SV 40.3kPa			107.74	(0.30) 4.00	Complete at 4.00m		

Remarks

GROUNDWATER: None encountered.
CASING: No casing used.
INSTALLATION: No installation.
BACKFILL: Backfilled with arisings.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at target depth

Scale
(approx)

1:25

Logged
By

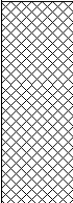
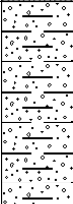
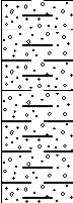
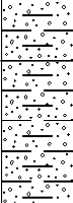
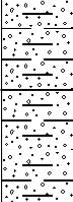
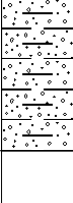
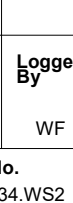
WF

Figure No.

LS3734.WS1

Site Land at Blackwell Farm Road, East Grinstead, RH19 3JW	Number WS2
Client The Guinness Partnership Ltd.	Job Number LS3734
Project Contractor Blackthorn Homes Ltd.	Sheet 1/1

Machine : Archway Dart	Dimensions	Ground Level (mOD) 111.64
Method : Drive-in Windowless Sampler	Location (Handheld GPS) 539715.725 E 138823.028 N	Dates 09/08/2018- 10/08/2018

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D		PID = 0.0 ppm		(0.70)	Light brown clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded, weak sandstone. Abundant roots and rootlets. Glass and china fragments. (MADE GROUND)		
0.70	D		PID = 0.0 ppm	110.94	0.70	Light orangish grey slightly green, mottled black, very sandy, slightly gravelly CLAY. Sand is fine. Gravels are fine to coarse weak sandstones, displaying iron oxidation weathering. Occasional organic fragments including decayed roots and rootlets. Strong organic odour. (ALLUVIUM) ...Very orangey sand between 0.70m and 0.90m		
1.00	D					...Softer and more moist from 1.30m		
1.50	D				(1.60)	...Less gravelly after 1.70m		
2.50	D			109.34	2.30	Mottled dark brown, blue, grey, black sandy, gravelly CLAY. With fine to medium, subangular to subrounded sandstone fragments. Lenses of peaty material from 2.30m to 2.80m. (ALLUVIUM)		
					(0.80)			
				108.54	3.10	Mottled light orangey, grey sandy, gravelly CLAY. With occasional sandstone fragments. (ALLUVIUM)		
3.50	D				(0.90)			
4.00	D		PID = 0.0 ppm	107.64	4.00	Complete at 4.00m		

Remarks
GROUNDWATER: None encountered.
CASING: No casing used.
INSTALLATION: No installation used.
BACKFILL: Backfilled with arisings.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at target depth.

Scale (approx)
1:25

Logged By
WF

Figure No.
LS3734.WS2

Site Land at Blackwell Farm Road, East Grinstead, RH19 3JW	Number WS3
Client The Guinness Partnership Ltd.	Job Number LS3734
Project Contractor Blackthorn Homes Ltd.	Sheet 1/1

Machine : Archway Dart	Dimensions	Ground Level (mOD) 110.96
Method : Drive-in Windowless Sampler	Location (Handheld GPS) 539725.022 E 138807.505 N	Dates 09/08/2018- 10/08/2018

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D			110.81	(0.15) 0.15	Light brown clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded, weak sandstone. Abundant roots and rootlets. Glass and china fragments. (MADE GROUND)		
1.00	D		PID = 0.0 ppm	109.96	(0.85)	Light brown gravelly, clayey SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded sandstone displaying iron oxidation weathering. Occasional brick fragments. Abundant roots and rootlets. (MADE GROUND)		
1.20	D		PID = 0.0 ppm					
1.50	D		PID = 0.0 ppm		(1.00)			
2.00	D		PID = 0.0 ppm	108.96	2.00	Dark orangish brown, slightly clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded sandstones. Abundant brick, glass and metal fragments (MADE GROUND) ...Pocket of greyish black, peaty, sandy CLAY with a strong organic odour. Containing glass fragments. Between 1.20m and 2.00m		
2.50	D				(0.70)			
2.70	D			108.26	2.70	Dark greyish, blue, mottled brown, black, sandy, slightly gravelly CLAY. Sand is fine. Gravels are fine, subrounded weak sandstones. Abundant decayed organic fragments and strong organic odour. (ALLUVIUM)		
						Terminated at 2.70m		

Remarks
GROUNDWATER: None encountered.
CASING: No casing used.
INSTALLATION: No installation used.
BACKFILL: Backfilled with arisings.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at terminated at 2.70m due to refusal on cohesive material.

Scale (approx) 1:25	Logged By WF
Figure No. LS3734.WS3	

Site Land at Blackwell Farm Road, East Grinstead, RH19 3JW	Number WS4
Client The Guinness Partnership Ltd.	Job Number LS3734
Project Contractor Blackthorn Homes Ltd.	Sheet 1/1

Machine : Archway Dart	Dimensions	Ground Level (mOD) 110.47
Method : Drive-in Windowless Sampler	Location 539741.072 E 138784.781 N	Dates 09/08/2018- 10/08/2018

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.0 ppm	110.27	(0.20) 0.20	Light brown clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded, weak sandstone. Abundant roots and rootlets. Glass and china fragments. (MADE GROUND)		
0.50	D		PID = 0.5 ppm			Light brown clayey, very gravelly SAND. Sand is fine to medium. Gravels are fine to coarse, subangular to subrounded weak sandstones. Abundant metal, brick and glass fragments. Abundant roots and rootlets (MADE GROUND)		
0.70	D		PID = 0.0 ppm					
1.00	D		PID = 0.0 ppm		(1.60)	...Light yellowish brown sandy CLAY between 1.00m and 1.20m		
1.50	D		PID = 0.0 ppm			...Light yellowish brown sandy CLAY between 1.60m and 1.80m		
2.00	D			108.67	1.80	Dark brownish grey mottled black sandy, silty CLAY. Abundant fragments of decayed oraganic matter including root and rootlets. (ALLUVIUM) ...Large pocket of decayed organic matter from 1.80m to 2.20m ...Coarse subrounded sandstone gravel ...Becoming lighter in colour with depth		
2.50	D				(1.20)			
3.00	D			107.47	3.00	...Large pocket of decayed organic matter from 2.80m to 3.00m Mottled light orangey, greyish brown, sandy, gravelly CLAY. With occasional sandstone fragments. (ALLUVIUM)		
3.50	D				(1.00)	...Medium to coarse, subangular to subrounded sandstone gravels ...Becomes light greenish, bluish, grey in colour below 3.80m		
4.00	D		PID = 0.0ppm	106.47	4.00	Terminated at 4.00m		

Remarks
 GROUNDWATER: none encountered.
 CASING: No casing used.
 INSTALLATION: No installation used.
 BACKFILL: Backfilled with arisings.
 SLOW PROGRESS: None.
 NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at target depth.

Scale (approx) 1:25	Logged By WF
Figure No. LS3734.WS4	

Site Land at Blackwell Farm Road, East Grinstead, RH19 3JW	Number WS5
Client The Guinness Partnership Ltd.	Job Number LS3734
Project Contractor Blackthorn Homes Ltd.	Sheet 1/1

Machine : Archway Dart	Dimensions	Ground Level (mOD) 111.28
Method : Drive-in Windowless Sampler	Location (Handheld GPS) 539716.857 E 138771.558 N	Dates 09/08/2018- 10/08/2018

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.0 ppm	111.08	(0.20) 0.20	Grass overlying dark brown silty, slightly gravelly SAND. Occasional organic matter and decayed rootlets noted. Sand is fine grained. Gravels are fine to medium sub angular flint. (MADE GROUND)		
0.40	D			110.63	(0.45) 0.65	Brown yellow slightly clayey, slightly silty, slightly gravelly SAND. Gravels are fine to medium sub angular flint with some brick fragments. Sand is fine to medium grained. (MADE GROUND)		
1.00	D		PID = 0.0 ppm			Yellow slightly clayey, very gravelly SAND with some organic matter. Sand is fine to medium grained. Gravels are fine to coarse, sub angular flint. (ALLUVIUM)		
1.50	D				(1.55)			
2.00	D		PID = 0.0 ppm	109.08	2.20	Grey mottled dark brown, sandy gravelly CLAY with some peaty inclusions. Sand is coarse grained. Gravels are fine sub angular flints. (ALLUVIUM)		
2.30	D			108.78	(0.30) 2.50	Dark blue grey peaty, slightly gravelly wet CLAY. Strong organic odour. Gravels are fine sub angular flints. Some organic matter. (ALLUVIUM)		
2.70	D							
3.20	D				(1.50)			
3.70	D			107.28	4.00	...occasional rootlets present at 3.5m depth ...becoming lighter blue/grey in colour from 3.8m depth		
						Complete at 4.00m		

Remarks
GROUNDWATER: None encountered.
CASING: No casing used.
INSTALLATION: No installation.
BACKFILL: Backfilled with arisings.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at target depth

Scale (approx)
1:25

Logged By
RL

Figure No.
LS3734.WS5

Machine : Archway Dart

Method : Drive-in Windowless
Sampler

Dimensions

Location (Handheld GPS)

539730.645 E 138792.056 N

Ground Level (mOD)

110.64

Client

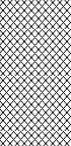
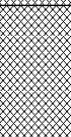
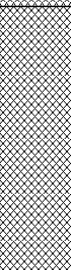
The Guinness Partnership Ltd.

Job
Number
LS3734

Project Contractor

Blackthorn Homes Ltd.

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D		PID = 0.0 ppm	110.39	(0.25) 0.25	Grass overlying dark brown clayey, silty slightly gravelly SAND with occasional rootlets and organic matter noted. Sand is fine grained. Gravels are sub angular to subrounded flints. (MADE GROUND)		
0.50	D		PID = 0.0 ppm	109.89	(0.50) 0.75	Dark brown clayey, gravelly SAND. Occasional clinker and decayed roots noted. Sand is fine to medium grained. Gravels are fine to medium sub angular flint with some brick fragments. (MADE GROUND)		
1.00	D		PID = 0.0 ppm	109.44	(0.45) 1.20	Dark brown, black clayey gravelly SAND. Gravels are fine to medium sub angular flint and include glass and clinker fragments. Sand is coarse grained. (MADE GROUND)		
1.50	D				(0.90)	Dark blue black clayey slightly SAND. With an abundance of brick and glass fragments. Sand is coarse grained. Strong organic odour. (MADE GROUND)		
2.00	D		PID = 0.0 ppm	108.54	2.10	Light blue grey very peaty CLAY with some organic matter and decayed rootlets. Strong organic odour. (ALLUVIUM)		▼1
2.50	D		Water strike(1) at 2.30m, rose to 2.20m in 20 mins.					▼1
3.00	D				(1.90)			
3.50	D							
				106.64	4.00	Complete at 4.00m		

Remarks

GROUNDWATER: None encountered.
CASING: No casing used.
INSTALLATION: No installation.
BACKFILL: Backfilled with arisings.
SLOW PROGRESS: None.
NOTES: Hand excavated inspection pit to 1.20mbgl. Borehole terminated at target depth

Scale
(approx)

1:25

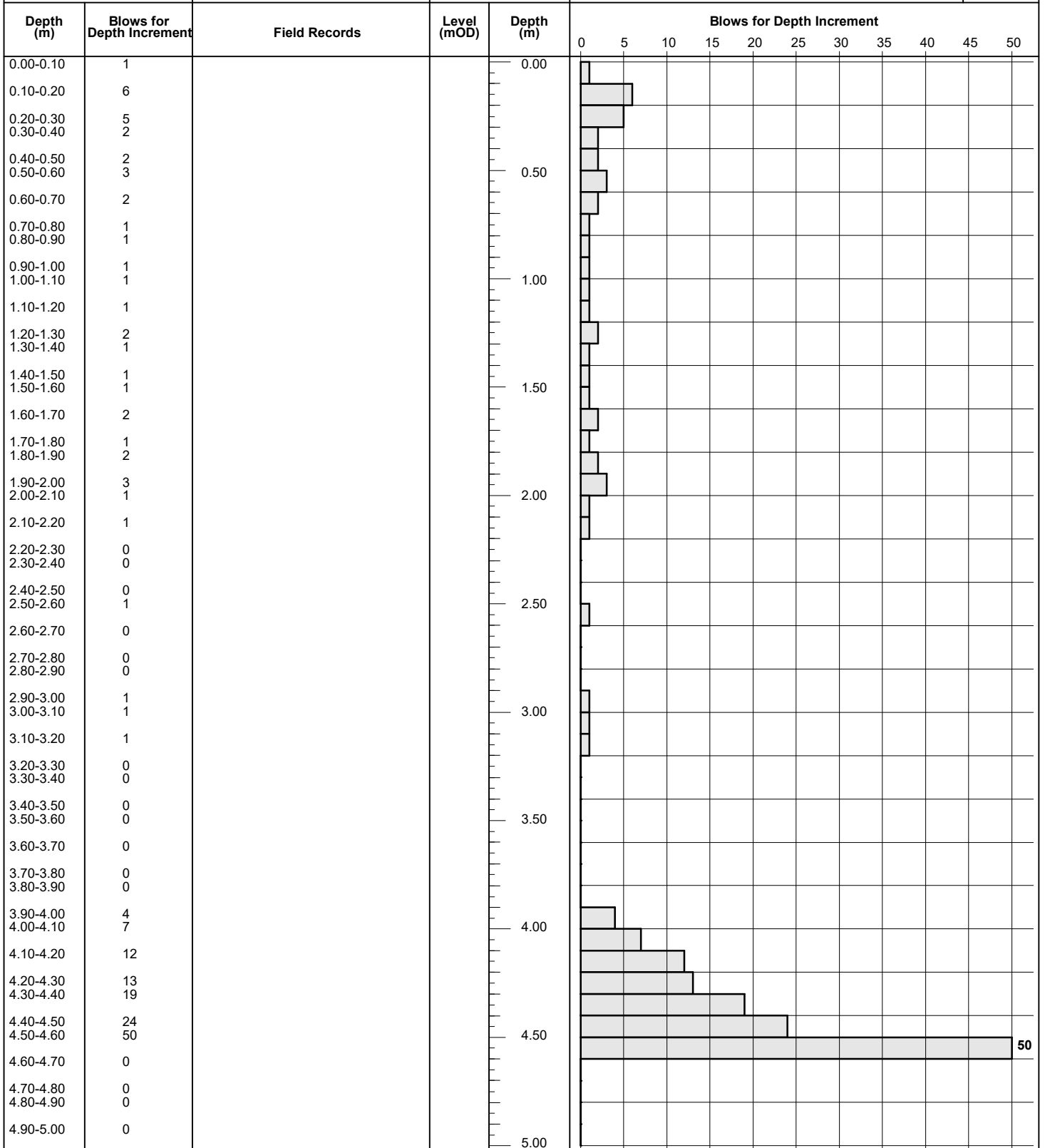
Logged
By

RL

Figure No.

LS3734.WS6

Machine : Archway Dart	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
Method : Dynamic Probe	Location WS1	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 1/1



Remarks	Scale (approx)	Logged By
	1:25	
	Figure No. LS3734.SHDP 1	

Machine : Archway Dart Method : Dynamic Probe	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
	Location WS2	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 1/3

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment
					0 4 8 12 16 20 24 28 32 36 40
0.00-0.10	3			0.00	
0.10-0.20	3				
0.20-0.30	3				
0.30-0.40	3				
0.40-0.50	3				
0.50-0.60	3			0.50	
0.60-0.70	3				
0.70-0.80	2				
0.80-0.90	3				
0.90-1.00	3				
1.00-1.10	8			1.00	
1.10-1.20	8				
1.20-1.30	6				
1.30-1.40	0				
1.40-1.50	0				
1.50-1.60	0			1.50	
1.60-1.70	0				
1.70-1.80	0				
1.80-1.90	0				
1.90-2.00	0			2.00	

Remarks	Scale (approx) 1:10	Logged By
	Figure No. LS3734.SHDP 2	

Machine : Archway Dart	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
Method : Dynamic Probe	Location WS2	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 2/3

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment
					0 4 8 12 16 20 24 28 32 36 40
2.00-2.10	1			2.00	
2.10-2.20	0				
2.20-2.30	0				
2.30-2.40	0				
2.40-2.50	0				
2.50-2.60	0			2.50	
2.60-2.70	0				
2.70-2.80	2				
2.80-2.90	2				
2.90-3.00	2				
3.00-3.10	1			3.00	
3.10-3.20	1				
3.20-3.30	1				
3.30-3.40	1				
3.40-3.50	1				
3.50-3.60	1			3.50	
3.60-3.70	1				
3.70-3.80	1				
3.80-3.90	6				
3.90-4.00	6			4.00	

Remarks	Scale (approx) 1:10	Logged By
	Figure No. LS3734.SHDP 2	

Machine : Archway Dart Method : Dynamic Probe	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
	Location WS2	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 3/3

[illegible]

Remarks	Scale (approx)	Logged By
	1:10	
	Figure No. LS3734.SHDP 2	

Machine : Archway Dart	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
Method : Dynamic Probe	Location WS3	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment
					0 1 2 3 4 5 6 7 8 9 10
0.00-0.10	3			0.00	
0.10-0.20	3				
0.20-0.30	3				
0.30-0.40	3				
0.40-0.50	3			0.50	
0.50-0.60	3				
0.60-0.70	3				
0.70-0.80	1				
0.80-0.90	0				
0.90-1.00	0			1.00	
1.00-1.10	0				
1.10-1.20	0				
1.20-1.30	0				
1.30-1.40	0				
1.40-1.50	0			1.50	
1.50-1.60	0				
1.60-1.70	0				
1.70-1.80	0				
1.80-1.90	0				
1.90-2.00	0			2.00	
2.00-2.10	0				
2.10-2.20	0				
2.20-2.30	0				
2.30-2.40	0				
2.40-2.50	1			2.50	
2.50-2.60	1				
2.60-2.70	2				
2.70-2.80	2				
2.80-2.90	2				
2.90-3.00	3			3.00	
3.00-3.10	3				
3.10-3.20	3				
3.20-3.30	3				
3.30-3.40	2				
3.40-3.50	2			3.50	
3.50-3.60	3				
3.60-3.70	2				
3.70-3.80	3				
3.80-3.90	2				
3.90-4.00	3			4.00	
4.00-4.10	3				
4.10-4.20	3				
4.20-4.30	5				
4.30-4.40	5				
4.40-4.50	4			4.50	
4.50-4.60	4				
4.60-4.70	5				
4.70-4.80	5				
4.80-4.90	4				
4.90-5.00	10			5.00	

Remarks

Scale (approx) 1:25	Logged By
Figure No. LS3734.SHDP 3	

Machine : Archway Dart	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
Method : Dynamic Probe	Location	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment
					0 1 2 3 4 5 6 7 8 9 10
0.00-0.10	2			0.00	
0.10-0.20	2				
0.20-0.30	3				
0.30-0.40	3				
0.40-0.50	3				
0.50-0.60	3			0.50	
0.60-0.70	2				
0.70-0.80	3				
0.80-0.90	3				
0.90-1.00	3				
1.00-1.10	1			1.00	
1.10-1.20	0				
1.20-1.30	0				
1.30-1.40	0				
1.40-1.50	0				
1.50-1.60	1			1.50	
1.60-1.70	0				
1.70-1.80	0				
1.80-1.90	0				
1.90-2.00	1				
2.00-2.10	0			2.00	
2.10-2.20	0				
2.20-2.30	0				
2.30-2.40	0				
2.40-2.50	0				
2.50-2.60	0			2.50	
2.60-2.70	0				
2.70-2.80	2				
2.80-2.90	0				
2.90-3.00	0				
3.00-3.10	0			3.00	
3.10-3.20	0				
3.20-3.30	0				
3.30-3.40	0				
3.40-3.50	0				
3.50-3.60	0			3.50	
3.60-3.70	0				
3.70-3.80	2				
3.80-3.90	2				
3.90-4.00	2				
4.00-4.10	1			4.00	
4.10-4.20	1				
4.20-4.30	1				
4.30-4.40	1				
4.40-4.50	1				
4.50-4.60	1			4.50	
4.60-4.70	1				
4.70-4.80	3				
4.80-4.90	4				
4.90-5.00	4			5.00	

Remarks	Scale (approx) 1:25	Logged By
	Figure No. LS3734.SHDP 4	

Machine : Archway Dart Method : Dynamic Probe	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
	Location WS5	Dates 09/08/2018-10/08/2018	Engineer Land Science	Sheet 1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment										
					0	1	2	3	4	5	6	7	8	9	10
0.00-0.10	3			0.00											
0.10-0.20	3														
0.20-0.30	3														
0.30-0.40	3														
0.40-0.50	3														
0.50-0.60	3			0.50											
0.60-0.70	4														
0.70-0.80	4														
0.80-0.90	2														
0.90-1.00	2														
1.00-1.10	4			1.00											
1.10-1.20	2														
1.20-1.30	2														
1.30-1.40	2														
1.40-1.50	2														
1.50-1.60	2			1.50											
1.60-1.70	1														
1.70-1.80	1														
1.80-1.90	2														
1.90-2.00	2														
2.00-2.10	2			2.00											
2.10-2.20	2														
2.20-2.30	2														
2.30-2.40	1														
2.40-2.50	1														
2.50-2.60	1			2.50											
2.60-2.70	2														
2.70-2.80	1														
2.80-2.90	2														
2.90-3.00	2														
3.00-3.10	2			3.00											
3.10-3.20	2														
3.20-3.30	1														
3.30-3.40	1														
3.40-3.50	1														
3.50-3.60	1			3.50											
3.60-3.70	1														
3.70-3.80	2														
3.80-3.90	1														
3.90-4.00	2														
4.00-4.10	2			4.00											
4.10-4.20	2														
4.20-4.30	1														
4.30-4.40	2														
4.40-4.50	2														
4.50-4.60	2			4.50											
4.60-4.70	2														
4.70-4.80	4														
4.80-4.90	5														
4.90-5.00	6			5.00											

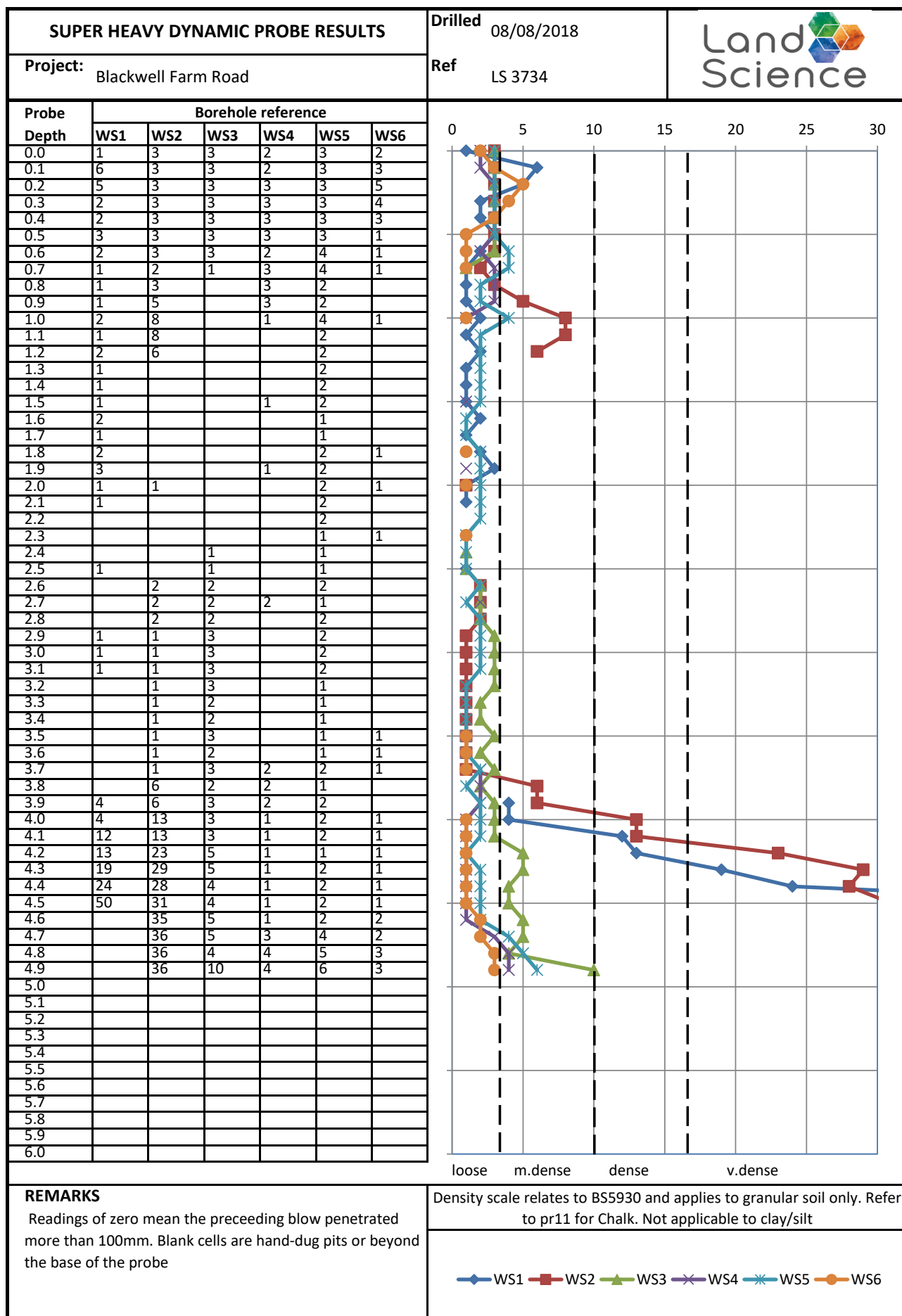
Remarks	Scale (approx)	Logged By
	1:25	
	Figure No. LS3734.SHDP 5	

Machine : Archway Dart	Cone Dimensions	Ground Level (mOD)	Client The Guinness Partnership Ltd.	Job Number LS3734
Method : Dynamic Probe	Location WS5	Dates 09/08/2018- 10/08/2018	Engineer Land Science	Sheet 1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment
					0 1 2 3 4 5 6 7 8 9 10
0.00-0.10	2			0.00	
0.10-0.20	3				
0.20-0.30	5				
0.30-0.40	4				
0.40-0.50	3				
0.50-0.60	1			0.50	
0.60-0.70	1				
0.70-0.80	1				
0.80-0.90	0				
0.90-1.00	0				
1.00-1.10	1			1.00	
1.10-1.20	0				
1.20-1.30	0				
1.30-1.40	0				
1.40-1.50	0				
1.50-1.60	0			1.50	
1.60-1.70	0				
1.70-1.80	0				
1.80-1.90	1				
1.90-2.00	0				
2.00-2.10	1			2.00	
2.10-2.20	0				
2.20-2.30	0				
2.30-2.40	1				
2.40-2.50	0				
2.50-2.60	0			2.50	
2.60-2.70	0				
2.70-2.80	0				
2.80-2.90	0				
2.90-3.00	0				
3.00-3.10	0			3.00	
3.10-3.20	0				
3.20-3.30	0				
3.30-3.40	0				
3.40-3.50	0				
3.50-3.60	1			3.50	
3.60-3.70	1				
3.70-3.80	1				
3.80-3.90	0				
3.90-4.00	0				
4.00-4.10	1			4.00	
4.10-4.20	1				
4.20-4.30	1				
4.30-4.40	1				
4.40-4.50	1				
4.50-4.60	1			4.50	
4.60-4.70	2				
4.70-4.80	2				
4.80-4.90	3				
4.90-5.00	3			5.00	

Remarks

Scale (approx) 1:25	Logged By
Figure No. LS3734.SHDP 6	



APPENDIX D



Technics
Group

Geospatial Consultant Surveyors

Survey Report

Project Name: Blackwall Farm Road

Client: Land Science

Project Number: SP18579

Author: Jared Clarke

Checked By: Alex White

Status: Final

Revision: A

Revision History			
Revision	Date	Status	Summary of changes
A	28/08/2018	Final	First Issue

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Enquiries to:

Technics House, Merrow Business Park, Guildford, Surrey, GU4 7WA. 01483 230080



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Cautionary Notes:

1. No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times, in line with the requirements of HSG47 and current CDM regulations.
2. EML & GPR techniques were used to obtain the information shown on the drawing. Varying ground conditions can affect the performance of these systems; therefore 100% detection is not guaranteed. Always Exercise Caution When Excavating. See HSG-47.
3. If the location or depth of services/features is of importance to a project then it is recommended that discussions are held with Technics Group regarding any possible limitations or anomalies. Depth indicators derived from Electromagnetic Locators shown with a suffix of "(E)" or "(S)" are classed as undefined and should be treated with caution and verified prior to any design/building works.
4. It is also advised that trial excavations should be undertaken to verify survey results within key areas of importance.
5. Information depicted as (R) or (A) cannot be guaranteed as it is based on historic utility records or assumed routes which can be inaccurate and incomplete.
6. Depicted service routes may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features therefore it is possible that some features shown are not utility related, and due to the limitations of electromagnetic techniques all utility identifications should be treated with caution and verified prior to any design/building works.
7. Water and Gas utilities to individual properties are often of a size that cannot be detected using EML or GPR investigation, whenever possible the route has been added from surface evidence (pipe risers, valves, etc), but this should be viewed as a guide only.
8. Unloaded, perfectly balanced or pot ended electric cables may not be detectable using Electromagnetic Locators.
9. Within close proximity of electric substations and similar structures results using EML may become distorted. All reasonable efforts have been made to verify our results using GPR wherever conditions permitted.
10. Underneath overhead power lines results using EML may become distorted. All reasonable efforts have been made to verify our results using GPR wherever conditions permitted.
11. Fibre optic cables are often difficult to detect, and commonly access chambers can be locked and thereby made inaccessible by the utility provider. All reasonable efforts have been made to locate these ducts using GPR. Cables not located have been transposed from records.

12. Wherever possible we have attempted to locate the route of the sewer. Issues such as blockages, surcharging, flooding, sedimentation, sewer collapse, root ingress, excessive depth, obstructions or heavy traffic flow may have affected our ability to obtain meaningful results. In these cases, recommendations have been made for further surveyor maintenance work.
13. All Pipe / duct sizes have been recorded from surface inspection or taken from record information and are assumed to be correct, however due to non-entry to chambers, these should be verified before any works commence.
14. The correct identification of the utility types cannot be 100% guaranteed, therefore these should be independently verified prior to use in any design/ building works.
15. Where possible, the ownership of Inspection covers has been derived from information on the covers or from cable tags. This does not necessarily mean that they use or are sole users of the apparatus.
16. Drainage routes that have only been proved by acoustic transmission are assumed straight between node points, the actual line may differ to what is shown on the drawing.

All utilities detected by Technics Group should be considered live unless confirmed otherwise by client or service provider.

Introduction

Project Background

Technics Group has been requested to undertake a Utility Survey to locate drainage only using Electromagnetic Locators & Strategic deployment of Ground Probing Radar within the area outlined on the plans below.



Site Location & Description

The site was located alongside a public highway and was mostly grass.

Site Specific Survey Limitations

Drainage

Due to the large soffit on the storm water manhole we were unable to see fully inside the chamber. We have added two runs from record information passed on by the client. We recommend confined space entry to collect more data.

Outside of the survey area

There was a manhole outside the survey area that could be connected to storm drainage system entering site from records, however we were unable to lift this due to the road conditions surrounding the manhole seizing it shut. Further works needed to obtain entry to this manhole. Some covers may exist from records information in the adjacent cemetery, no access at time of survey.

Conclusion & Recommendations

General

If the location or depth of services/features is of importance to a project, then it is recommended that discussions are held with Technics Group regarding any possible limitations or anomalies. Depth indicators derived from Electromagnetic Locators shown with a suffix of "(E)" or "(S)" are classed as undefined and should be treated with caution and verified prior to any design/building works.

Weather Conditions

The weather didn't cause any disruptions to the survey works.

Methodology of Survey Works

General

We will always, use our best endeavour to accurately detect, identify and locate all services using the latest technology and fully trained and experienced staff.

From our experience in delivering a utility survey, we do recommend a Desktop Utility Records Search as part of the project package which must be carried out prior to any site detection activities. This has been itemised as part of the project package within the Cost Breakdown. Please note, a 20-day period is recommended to collate all responses from the utility owners.

Where it is not possible to lift, a manhole cover because it is stuck or obstructed, this will be reported to the client at the earliest opportunity with a request for the cover to be made accessible or lifted, preferably whilst the operatives are still on site to avoid additional costs. It is good practice not to attempt to lift damaged covers we will report the damage to the client for instructions.

Note:

A Desktop Utility Records Search Survey Type D older than 90 days should be classed as historical and used with caution.

Due to variations in ground conditions, density of services and equipment limitations we cannot guarantee 100% detection.

Electromagnetic Locators (EML)

A visual inspection was performed to search for any above ground utility infrastructure and node points (manholes, inspection chambers, valves etc) within and immediately adjacent to the site area. Where possible, all encountered nodes were further investigated and the routes of the utilities were traced with an RD8000 PDL Locator coupled with a TX10B Transmitter. Conductive services were directly connected to and a traceable rod or sonde was used to trace any other accessible drainage or ducts.

Multiway banks of ducts/cables that follow the same route have been depicted as a single line and represent the centreline of the bank.

Passive mode cable and pipe location was performed to search for any inaccessible metallic and power carrying utilities. Any passive traces identified on-site were followed to a node where the identity of the utility could be established or where this was not practical have been labelled as an Unknown EML.

All utilities located using EML were marked on the surface of the ground using an appropriate coloured temporary site marking paint along with depth estimations (indicated by a value in meters next to the relevant target) which are to the centre of the conductor, pipe or cable. **All EML depths have an undefined accuracy and will require verification before commencing any building or design works.** [\(See cautionary Note 3 for more information\)](#)

Leica TS 15 Total Station

A Leica TS15 Total Station was used to accurately position and record all located utilities and related mark-ups. The works typically involved setting up a tripod over a Survey Station and occupying that position for a period to ensure the physical measurement of survey marks using a target pole. There were 2 tripods in use, with the other one over a different marker within the network.

Equipment Limitations:

Ground Penetrating Radar (GPR)

- Utility diameter needs to be 10% or larger than the depth of cover to be detectable;
- High conductive soils such as wet clay and soils that are salt contaminated ground will affect the penetration depth of the radar;
- Performance is also limited by signal scattering in heterogeneous conditions;
- Utility identification is not possible, except for water filled pipes;
- In disturbed ground, the radar may detect the walls of a trench but not the pipe it contains;
- The GPR antenna beam width is broad making it difficult for radar to discriminate between closely-spaced pipes.

Artefacts in the near surface (e.g. reinforcing bars, boulders, components of made ground, etc.) may scatter the transmitted energy and complicate the received signal and/or reduce depth of penetration.

Electromagnetic Locators (EML)

- Not able to indicate whether utilities located passively are a singular or several in close proximity;
- Unable to detect non-metallic utilities;
- May not detect well balanced or pot ended electrical cables;
- Maximum Depth: Line 6m (20ft), Sonde 15m (50ft);
- Depth indications can be inaccurate and will require verification;
- Unable to ascertain if the utility is live;
- Signals can easily jump to adjacent utility lines.

Appendix A - Example Annotations and Linetypes

4W:2/2 Ø100
BT
0.45d

Verified bank of 4x100mm diameter British Telecom ducts 2 wide by 2 deep, 0.45 meters below ground level to the top of the first level of ducts.

150Ø
WTR
0.85d(E)

A Detected single 150mm external diameter potable water pipe at 0.85 meters below ground level. The depth indications have been taken from Electromagnetic Location (EML) so are to the centre of the pipe. All EML depths carry an undefined accuracy and require verification by other means to confirm the depth and location before commencing any building/design works.

GPR
0.55d(G)

On-site GPR interpretation detected unknown Ground Probing Radar (GPR) linear feature at 0.55 meters below ground level to the top of the target.

EML
0.70d(E)

An unknown detected linear signal from Electromagnetic Location. Detected to a depth of 0.70 meters below the ground level to the centre of the target.

GAS(R)
Ø180

Information added from records shown by the suffix (R) within the linetype. A single 180mm external diameter gas pipe which was undetectable at the time of survey. All records routes carry an undefined accuracy and will require verification by other means to confirm their actual location.

FW(A) —>—
Ø150

An Assumed 150mm diameter foul water sewer shown by the suffix (A) within the linetype, which is expected to exist but has not been detected and is therefore shown as an assumed route. All assumed routes carry an undefined accuracy and will require verification by other means to confirm their actual

APPENDIX E

GROUND GAS AND GROUNDWATER MONITORING												
Project: Blackwell Farm Road			Ref: LS3734			Gatwick Airport Pressure [hPa]: 24.07.2018 - 21.08.2018 © weatheronline.co.uk						
Date: 16/08/2018			Visit: 1									
Engineer: JS			Check: MR									
Weather: Rainy			Page: 1 of 1									
Atmospheric Pressure			before: 1001mB									
			after: 1001mB									
Published pressure trend:			Fluctuating high pressure									
Remarks:												
Equipment used: GFX 430, Phoccheck PID, Dipmeter												
Position	Flow (l/hr)		Common Gases (%)				VOC's (ppm)	Groundwater (m)				Remarks
	High	Low	Time	CO2	CH4	O2		LNAPL	Water	DNAPL	Base	
Calibration Check	0.0	0.0	15s	0.0	0.0	19.6	0.0	-	-	-	-	Calibration check passed
			30s	0.0	0.0	19.6						
			60s	0.0	0.0	19.6						
WS6	0.1	0.0	15s	4.9	0.0	16.1	0.0	-	DRY	-	1.00m	
			30s	5.5	0.0	15.1						
			60s	5.6	0.0	14.8						
			120s	6.0	0.0	14.0						
			180s	6.5	0.0	14.0						
			240s	6.8	0.0	13.6						
			300s	7.0	0.0	13.4						
Calibration Check	0.0	0.0	15s	0.0	0.0	19.6	0.0	-	-	-	-	
			30s	0.0	0.0	19.6						
			60s	0.0	0.0	19.6						

APPENDIX F



4041

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

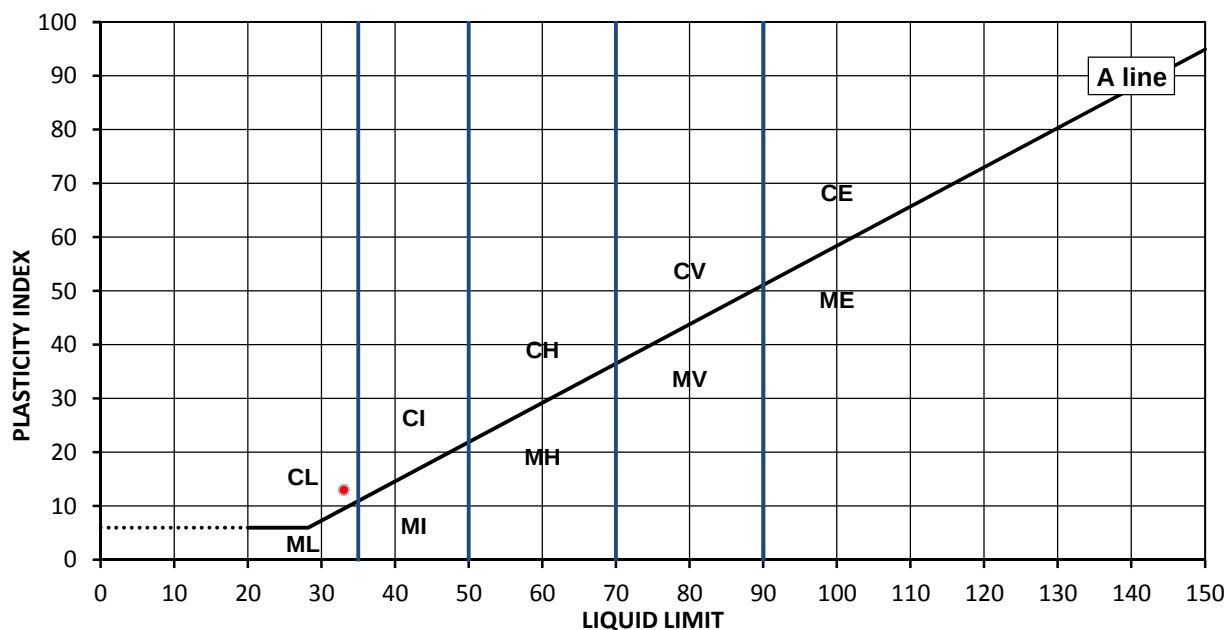
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025424
Hole No.: WS1
Sample Reference: D5
Soil Description: Yellowish brown very sandy CLAY
Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 1.60
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	33	20	13	90



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Environmental Science

Client: Land Science
Client Address: The Old Police Station
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Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

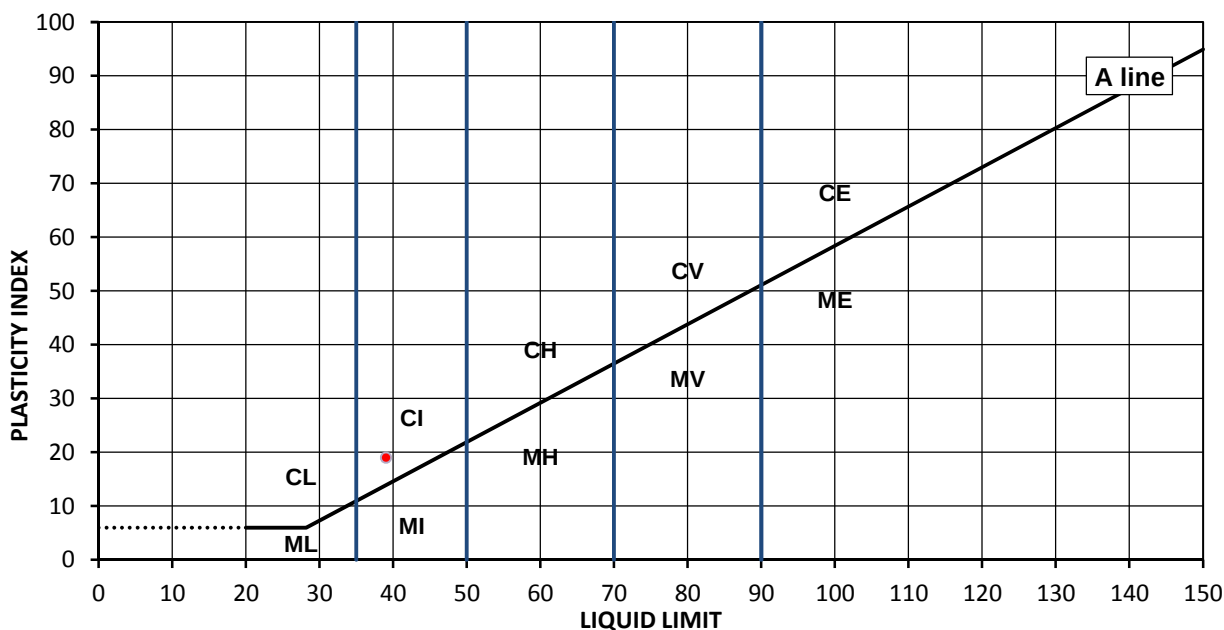
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025426
Hole No.: WS1
Sample Reference: D7
Soil Description: Mottled brown slightly sandy CLAY
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 2.40
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
29	39	20	19	98



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	Plasticity	Liquid Limit
M	Silt	L Low	below 35
		I Medium	35 to 50
		H High	50 to 70
		V Very high	70 to 90
		E Extremely high	exceeding 90
Organic		O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

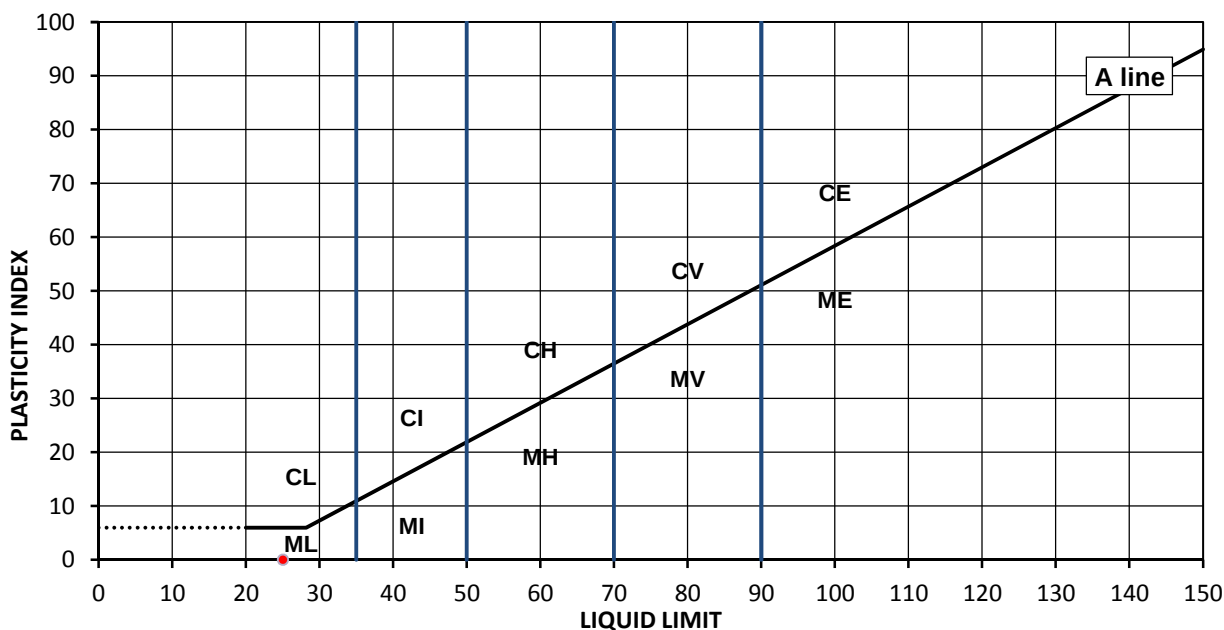
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025428
Hole No.: WS1
Sample Reference: D9
Soil Description: Yellowish brown clayey SAND
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 3.10
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	25	NP	NP	91



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

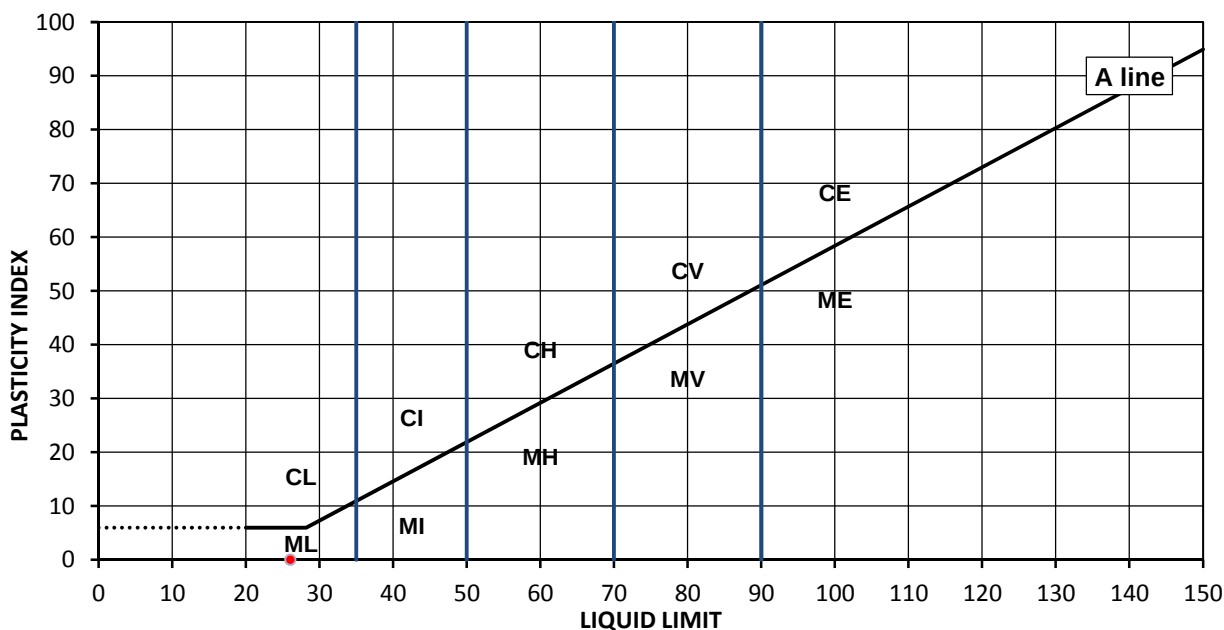
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025429
Hole No.: WS2
Sample Reference: D4
Soil Description: Yellowish brown very sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 1.00
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
17	26	NP	NP	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

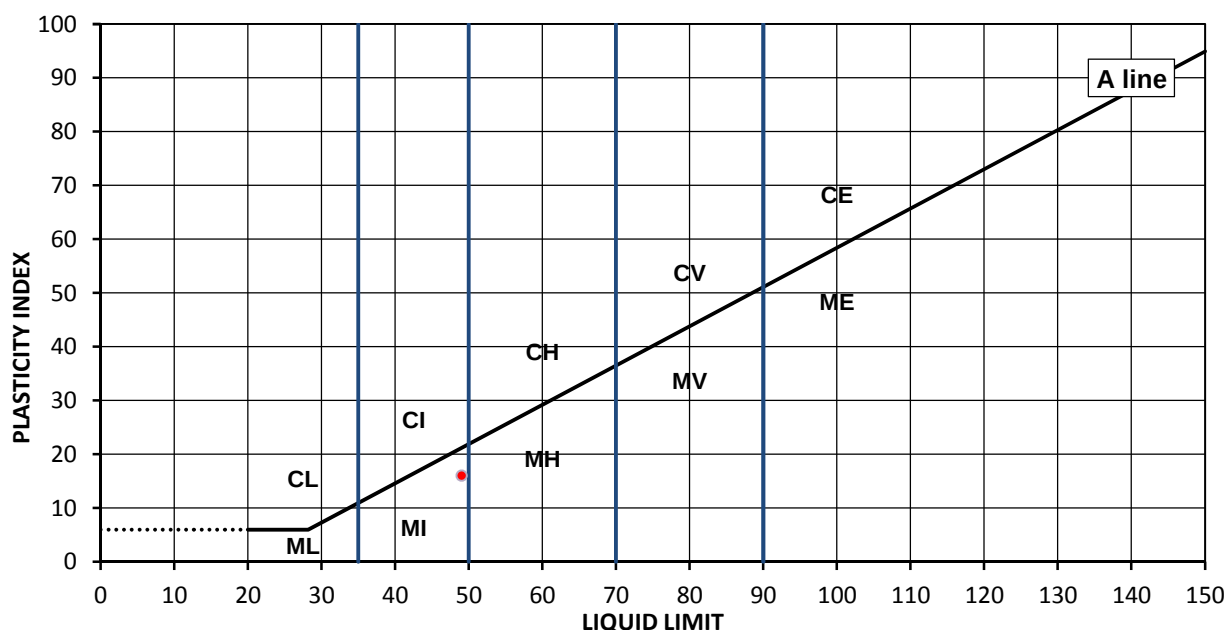
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 28/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025431
Hole No.: WS2
Sample Reference: D6
Soil Description: Dark grey organic slightly sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.50
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
62	49	33	16	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

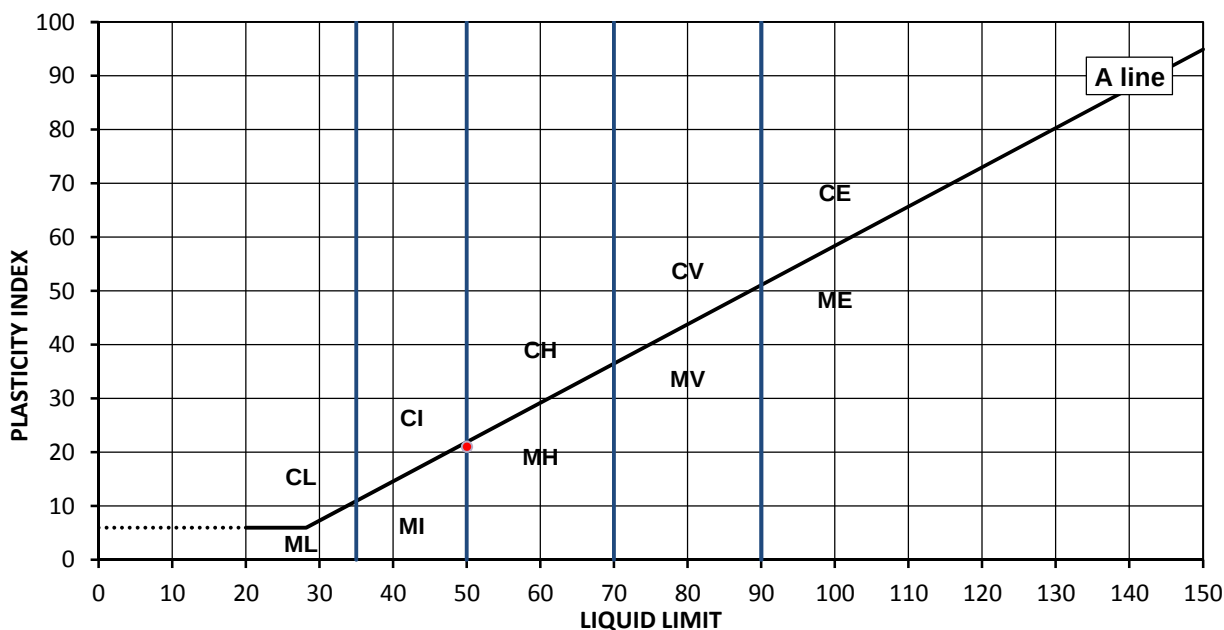
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025433
Hole No.: WS3
Sample Reference: Not Given
Soil Description: Yellowish brown slightly sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.50
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
38	50	29	21	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

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Watford Herts WD18 8YS



Environmental Science

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Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

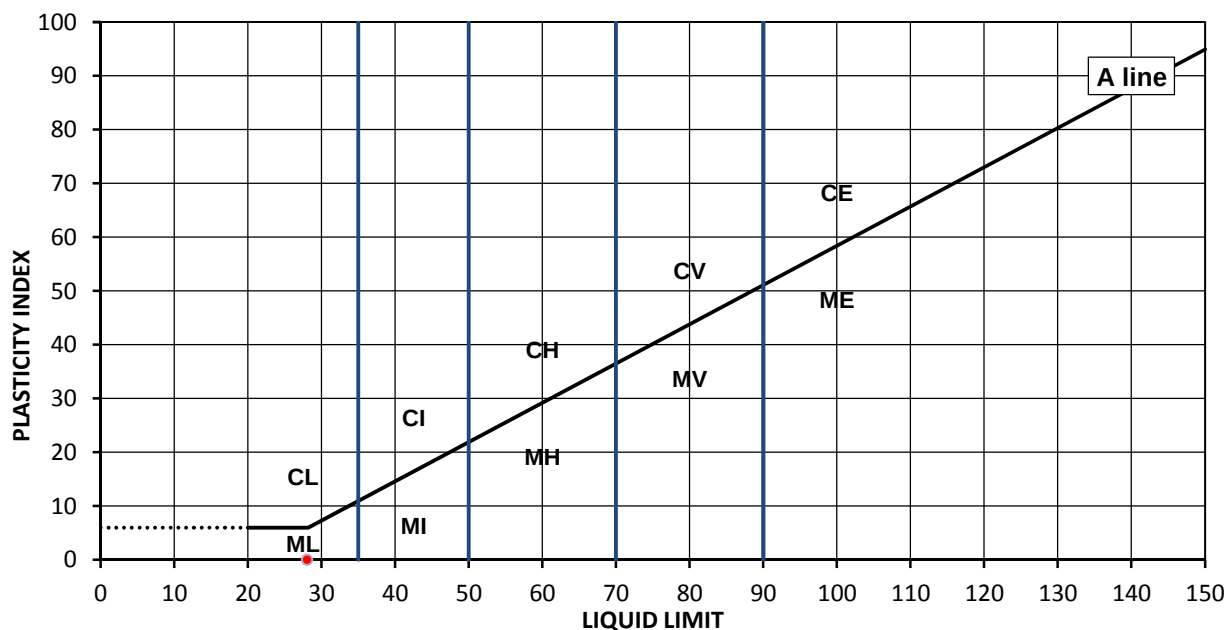
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025436
Hole No.: WS4
Sample Reference: Not Given
Soil Description: Brown very sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.50
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
29	28	NP	NP	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

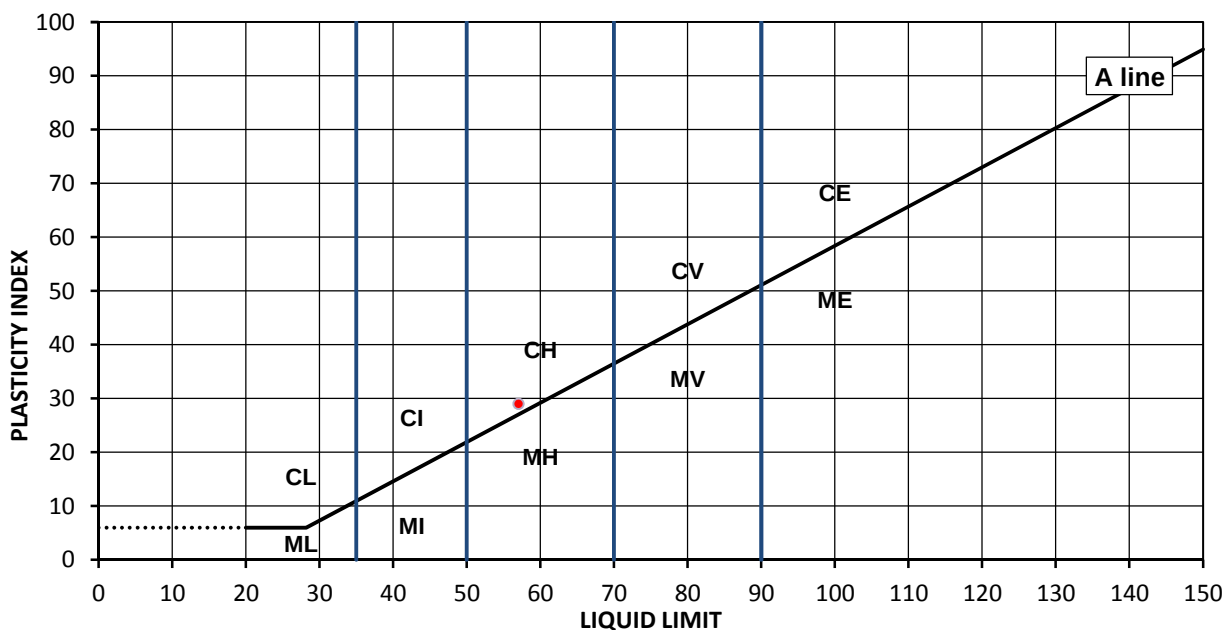
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025438
Hole No.: WS4
Sample Reference: Not Given
Soil Description: Brown grey slightly sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 3.50
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
48	57	28	29	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
7 Woodshots Meadow
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Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

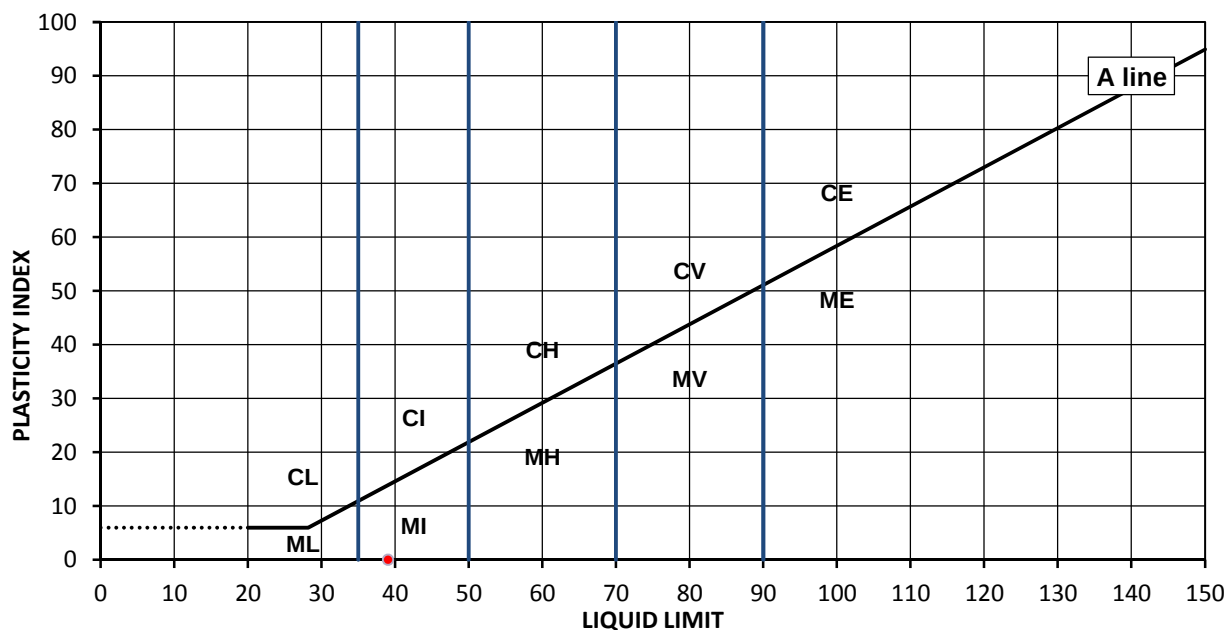
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025440
Hole No.: WS5
Sample Reference: Not Given
Soil Description: Brown sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.30
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	39	NP	NP	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
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Croxley Green Business Park
Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

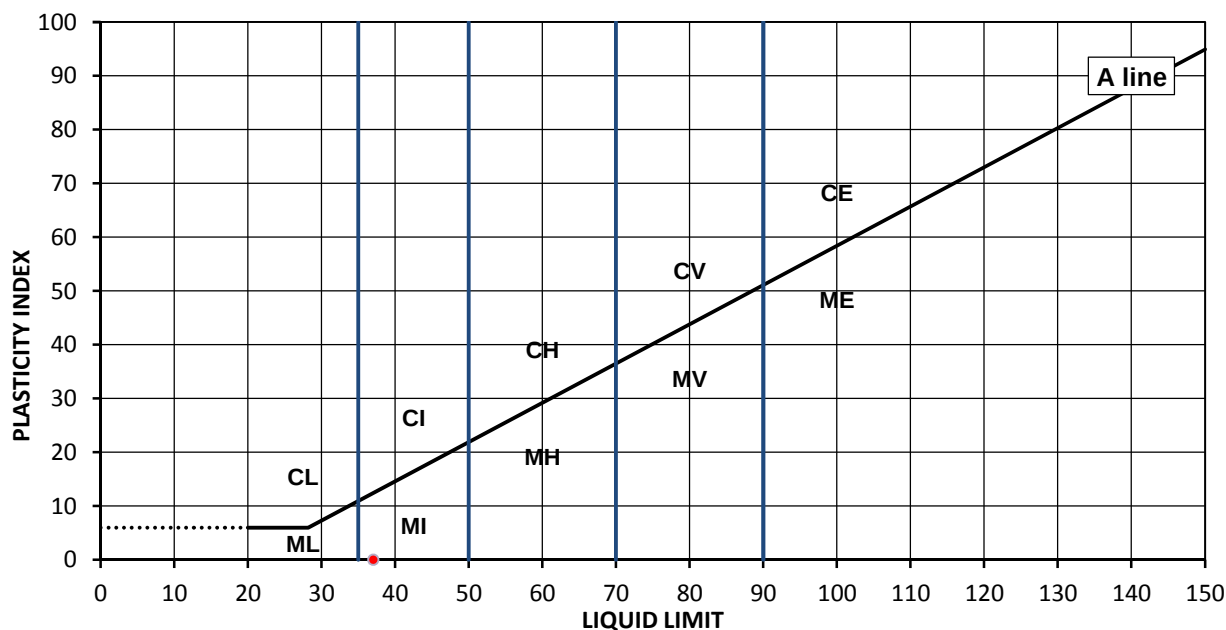
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025442
Hole No.: WS5
Sample Reference: Not Given
Soil Description: Grey sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 3.20
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
32	37	NP	NP	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Environmental Science

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

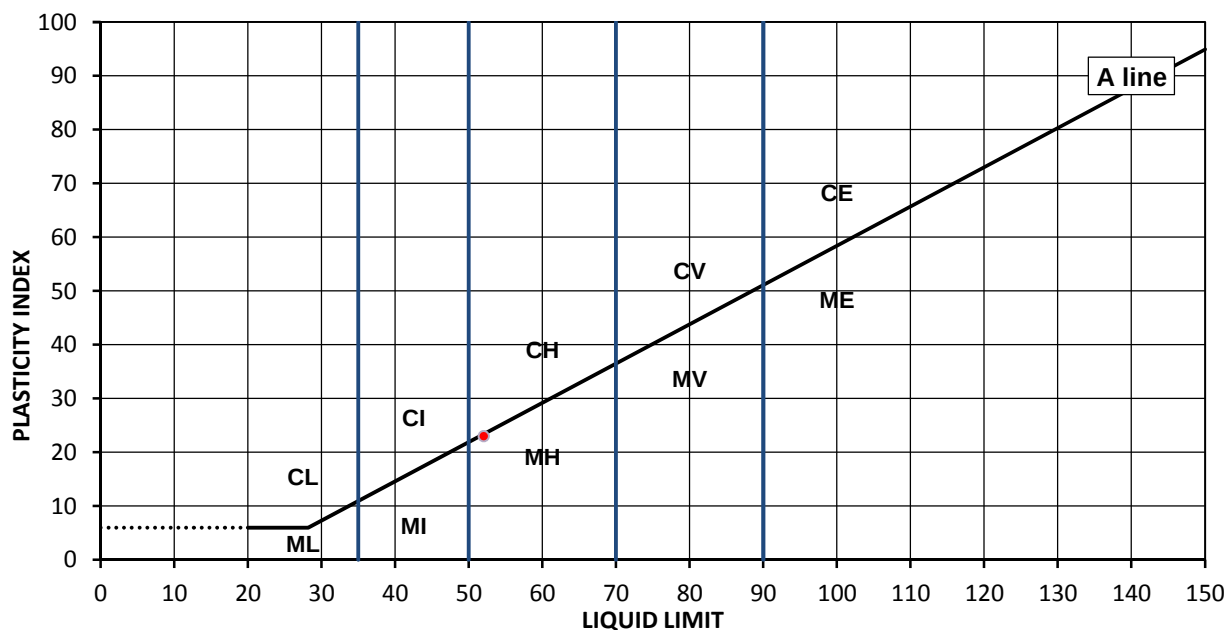
Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

Test Results

Laboratory Reference: 1025444
Hole No.: WS6
Sample Reference: Not Given
Soil Description: Brownish gravelly CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.50
Depth Base [m]: Not Given
Sample Type: D

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
39	52	29	23	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Maria Chandler
Site Manager
Northampton
Date Reported: 30/08/2018

Signed:

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TEST CERTIFICATE

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08 - 28/08/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	M/C	Atterberg				Density		Total Porosity
		Reference	Top depth [m]	Base depth [m]	Type			% Passing 425um	LL	PL	PI	bulk	PD	
							%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3
1025424	WS1	D5	1.60	Not Given	D	Yellowish brown very sandy CLAY	22	90	33	20	13			
1025425	WS1	D6	2.00	Not Given	D	Dark brown slightly organic CLAY	34							
1025426	WS1	D7	2.40	Not Given	D	Mottled brown slightly sandy CLAY	29	98	39	20	19			
1025427	WS1	D8	2.80	Not Given	D	Dark brown slightly organic sandy CLAY	32							
1025428	WS1	D9	3.10	Not Given	D	Yellowish brown clayey SAND	22	91	25	NP	NP			
1025429	WS2	D4	1.00	Not Given	D	Yellowish brown very sandy CLAY	17	100	26	NP	NP			
1025430	WS2	D5	1.50	Not Given	D	Yellowish brown CLAY	27							
1025431	WS2	D6	2.50	Not Given	D	Dark grey organic slightly sandy CLAY	62	100	49	33	16			
1025432	WS2	D7	3.50	Not Given	D	Yellowish brown CLAY	24							
1025433	WS3	Not Given	2.50	Not Given	D	Yellowish brown slightly sandy CLAY	38	100	50	29	21			

Comments: NP - non plastic

Approved:

Maria Chandler
Site Manager Northampton

Signed:

Darren Berrill
Geotechnical General Manager

Date Reported: 30/08/2018

for and on behalf of i2 Analytical Ltd

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This report may not be reproduced other than in full without the prior written approval of the issuing laboratory.
The results included within the report are representative of the samples submitted for analysis.
The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland.*

TEST CERTIFICATE

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08 - 28/08/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	M/C	Atterberg				Density		Total Porosity
		Reference	Top depth [m]	Base depth [m]	Type			% Passing 425um	LL	PL	PI	bulk	PD	
							%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3
1025434	WS3	Not Given	2.70	Not Given	D	Yellowish brown CLAY	33							
1025435	WS4	Not Given	2.00	Not Given	D	Yellowish brown CLAY	34							
1025436	WS4	Not Given	2.50	Not Given	D	Brown very sandy CLAY	29	100	28	NP	NP			
1025437	WS4	Not Given	3.00	Not Given	D	Grey CLAY	38							
1025438	WS4	Not Given	3.50	Not Given	D	Brown grey slightly sandy CLAY	48	100	57	28	29			
1025440	WS5	Not Given	2.30	Not Given	D	Brown sandy CLAY	25	100	39	NP	NP			
1025441	WS5	Not Given	2.70	Not Given	D	Brown slightly gravelly sandy CLAY	32							
1025442	WS5	Not Given	3.20	Not Given	D	Grey sandy CLAY	32	100	37	NP	NP			
1025443	WS5	Not Given	3.70	Not Given	D	Grey CLAY	39							
1025444	WS6	Not Given	2.50	Not Given	D	Brownish gravelly CLAY	39	100	52	29	23			

Comments: NP - non plastic

Approved:

Maria Chandler
Site Manager Northampton

Signed:

Darren Berrill
Geotechnical General Manager

Date Reported: 30/08/2018

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08 - 28/08/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	M/C	Atterberg				Density		Total Porosity
		Reference	Top depth [m]	Base depth [m]	Type			% Passing 425um	LL	PL	PI	bulk	PD	
1025445	WS6	Not Given	3.00	Not Given	D	Brown gravelly CLAY	70							
1025446	WS6	Not Given	3.50	Not Given	D	Yellowish brown sandy CLAY	21							

Comments:

Approved:

Maria Chandler
Site Manager Northampton

Signed:

Darren Berrill
Geotechnical General Manager

Date Reported: 30/08/2018

for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE**Determination of Particle Size Distribution**

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Client: Land Science
Client Address: The Old Police Station
Jobs Lane
Sayers Common
West Sussex, BN6 9HE
Contact: Michael Rose
Site Name: Blackwell Farm Road
Site Address: Not Given

Client Reference: LS3734
Job Number: 18-96823
Date Sampled: Not Given
Date Received: 15/08/2018
Date Tested: 23/08/2018
Sampled By: Not Given

TEST RESULTS

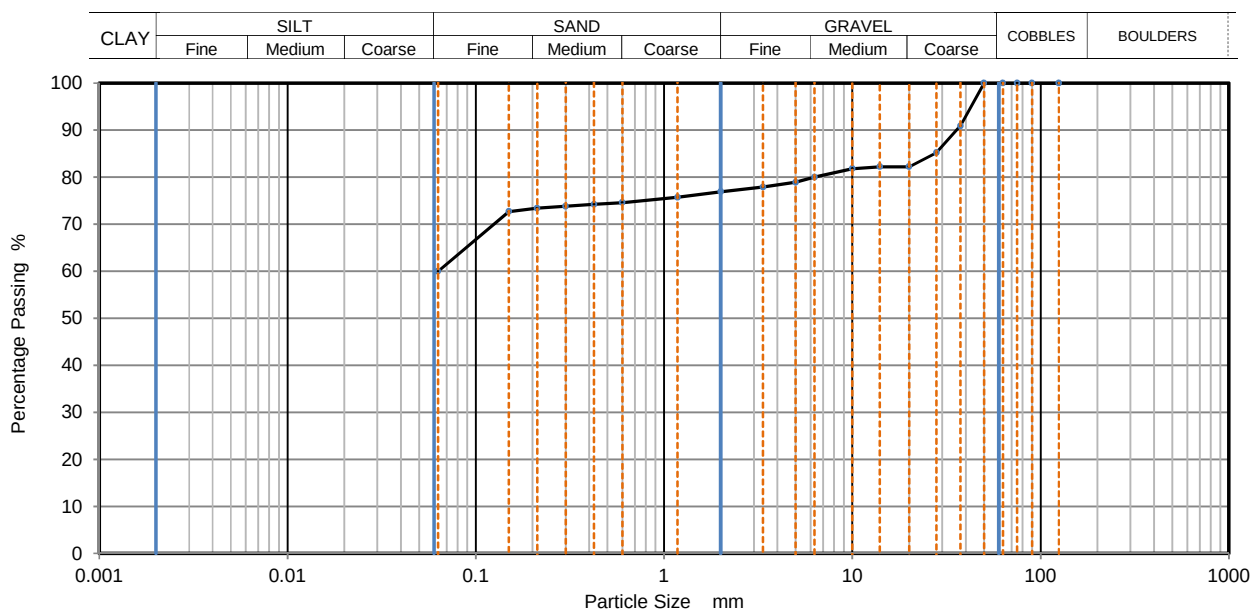
Laboratory Reference: 1025439
Sample description: Yellowish brown slightly gravelly slightly sandy
CLAY with sandstones

Sample Reference: Not Given

Sample Type: D

Location: WS5
Supplier: Not Given

Depth Top [m]: 1.50
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	91		
28	85		
20	82		
14	82		
10	82		
6.3	80		
5	79		
3.35	78		
2	77		
1.18	76		
0.6	75		
0.425	74		
0.3	74		
0.212	73		
0.15	73		
0.063	61		

Dry Mass of sample [g]: 1324

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	23.10
Sand	16.10
Fines <0.063mm	60.80

Grading Analysis	
D100 mm	50
D60 mm	
D30 mm	
D10 mm	
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below
The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Approved:

Maria Chandler
Site Manager Northampton

Signed:

Darren Berrill
Geotechnical General
Manager

Date Reported: 30/08/2018

for and on behalf of i2 Analytical Ltd

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APPENDIX G



Michael Rose
Land Science
The Old Police Station
Jobs Lane
Sayers Common
West Sussex
BN6 9HE

t: 0845 604 6494

e: mike.rose@landscience.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 18-96638

Replaces Analytical Report Number : 18-96638, issue no. 1

Project / Site name:	Blackwell Farm Road	Samples received on:	15/08/2018
Your job number:	LS3734	Samples instructed on:	15/08/2018
Your order number:		Analysis completed by:	24/08/2018
Report Issue Number:	2	Report issued on:	24/08/2018
Samples Analysed:	1 leachate sample 5 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 18-96638

Project / Site name: Blackwell Farm Road

Lab Sample Number				1024439	1024441	1024443	1024445	1024447
Sample Reference				WS1	WS1	WS3	WS5	WS6
Sample Number				D1	D8	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	2.80	0.50	0.40	1.50
Date Sampled				09/08/2018	09/08/2018	09/08/2018	09/08/2018	09/08/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	8.1	19	12	6.5	26
Total mass of sample received	kg	0.001	NONE	2.0	1.6	1.3	1.5	1.1

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	2.565
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	2.57

General Inorganics

pH - Manual	pH Units	N/A	MCERTS	-	-	-	7.3	-
pH - Automated	pH Units	N/A	MCERTS	6.6	-	5.9	6.8	7.2
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	< 1	16
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.019	-	0.022	0.042	2.4
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	1.5	250
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.032	-	0.015	0.0082	0.044
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	0.8	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	2.1	-	1.9	-
Acid Neutralisation Capacity	+/- mol/kg	-999	NONE	-	-	-	1.1	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	0.40
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.42	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.35	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	5.5	-	< 0.05	2.4	0.99
Anthracene	mg/kg	0.05	MCERTS	1.4	-	< 0.05	0.46	0.26
Fluoranthene	mg/kg	0.05	MCERTS	14	-	0.34	4.9	2.6
Pyrene	mg/kg	0.05	MCERTS	12	-	0.26	4.1	2.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	7.9	-	0.19	2.4	1.4
Chrysene	mg/kg	0.05	MCERTS	5.7	-	0.18	1.8	1.4
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	9.4	-	< 0.05	2.6	1.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.9	-	< 0.05	1.2	0.86
Benzo(a)pyrene	mg/kg	0.05	MCERTS	8.4	-	< 0.05	2.3	1.6
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.1	-	< 0.05	0.97	0.78
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.1	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	4.6	-	< 0.05	1.2	0.88
Coronene	mg/kg	0.05	NONE	< 0.05	-	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	78	-	1.0	24	15
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Analytical Report Number: 18-96638

Project / Site name: Blackwell Farm Road

Lab Sample Number	1024439	1024441	1024443	1024445	1024447
Sample Reference	WS1	WS1	WS3	WS5	WS6
Sample Number	D1	D8	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	2.80	0.50	0.40	1.50
Date Sampled	09/08/2018	09/08/2018	09/08/2018	09/08/2018	09/08/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	22	-	9.4	11	65
Barium (aqua regia extractable)	mg/kg	1	MCERTS	380	-	80	63	140
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	-	0.87	0.47	4.2
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	-	0.6	0.4	6.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.5	-	< 0.2	< 0.2	3.4
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	-	25	13	87
Copper (aqua regia extractable)	mg/kg	1	MCERTS	140	-	34	21	410
Lead (aqua regia extractable)	mg/kg	1	MCERTS	1400	-	32	110	4900
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	0.6	11
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	75	-	14	14	52
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	38	-	27	22	79
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	420	-	49	67	1200

Monoaromatics

Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Total BTEX	µg/kg	10	MCERTS	-	-	-	< 10	-

Petroleum Hydrocarbons

Mineral Oil (C10 - C40)	mg/kg	10	NONE	-	-	-	< 10	-
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PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	-	-	-	< 0.007	-
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Analytical Report Number: 18-96638
Project / Site name: Blackwell Farm Road
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1024447	WS6	1.50	100	Hard/Cement Type Material	Chrysotile	2.565	2.57

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Analytical Report Number: 18-96638

Project / Site name: Blackwell Farm Road

Lab Sample Number				1024448				
Sample Reference				WS5				
Sample Number				None Supplied				
Depth (m)				0.40				
Date Sampled				09/08/2018				
Time Taken				None Supplied				
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

10:1 WAC Leachate

Arsenic	mg/l	0.0011	ISO 17025	< 0.0011				
Barium	mg/l	0.00005	ISO 17025	0.0154				
Cadmium	mg/l	0.00008	ISO 17025	< 0.0001				
Chromium	mg/l	0.0004	ISO 17025	0.0052				
Copper	mg/l	0.0007	ISO 17025	0.017				
Mercury	mg/l	0.0005	ISO 17025	< 0.0005				
Molybdenum	mg/l	0.0004	ISO 17025	0.0005				
Nickel	mg/l	0.0003	ISO 17025	0.0035				
Lead	mg/l	0.001	ISO 17025	0.011				
Antimony	mg/l	0.0017	ISO 17025	< 0.0017				
Selenium	mg/l	0.004	ISO 17025	< 0.0040				
Zinc	mg/l	0.0004	ISO 17025	0.012				
Chloride	mg/l	0.15	ISO 17025	0.70				
Fluoride	mg/l	0.05	ISO 17025	0.31				
Sulphate	mg/l	0.1	ISO 17025	0.98				
Total dissolved solids	mg/l	4	ISO 17025	26				
Total monohydric phenols	mg/l	0.01	ISO 17025	< 0.010				
Dissolved organic carbon	mg/l	0.1	NONE	4.93				

10:1 WAC Leachate

Arsenic	mg/kg	0.011	NONE	< 0.0110				
Barium	mg/kg	0.0005	NONE	0.126				
Cadmium	mg/kg	0.0008	NONE	< 0.0008				
Chromium	mg/kg	0.004	NONE	0.043				
Copper	mg/kg	0.007	NONE	0.14				
Mercury	mg/kg	0.005	NONE	< 0.0050				
Molybdenum	mg/kg	0.004	NONE	0.0045				
Nickel	mg/kg	0.003	NONE	0.029				
Lead	mg/kg	0.01	NONE	0.093				
Antimony	mg/kg	0.017	NONE	< 0.017				
Selenium	mg/kg	0.04	NONE	< 0.040				
Zinc	mg/kg	0.004	NONE	0.094				
Chloride	mg/kg	1.5	NONE	5.7				
Fluoride	mg/kg	0.5	NONE	2.6				
Sulphate	mg/kg	1	NONE	8.1				
Total dissolved solids	mg/kg	40	NONE	210				
Total monohydric phenols	mg/kg	0.1	NONE	< 0.10				
Dissolved organic carbon	mg/kg	1	NONE	40.4				



Analytical Report Number : 18-96638

Project / Site name: Blackwell Farm Road

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1024439	WS1	D1	0.10	Brown loam and sand with gravel and vegetation.
1024441	WS1	D8	2.80	Brown clay and sand.
1024443	WS3	None Supplied	0.50	Light brown loam and clay with vegetation.
1024445	WS5	None Supplied	0.40	Light brown loam and clay with gravel and vegetation.
1024447	WS6	None Supplied	1.50	Brown gravelly clay with rubble.

Analytical Report Number : 18-96638

Project / Site name: Blackwell Farm Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-UK	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as received, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L009-PL	D	NONE
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	in-house method	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 18-96638

Project / Site name: Blackwell Farm Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

**Michael Rose**

Land Science
The Old Police Station
Jobs Lane
Sayers Common
West Sussex
BN6 9HE

t: 0845 604 6494

e: mike.rose@landscience.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 18-96826

Replaces Analytical Report Number : 18-96826, issue no. 1

Project / Site name:	Blackwell Farm Road	Samples received on:	15/08/2018
Your job number:	LS3734	Samples instructed on:	15/08/2018
Your order number:		Analysis completed by:	04/09/2018
Report Issue Number:	2	Report issued on:	05/09/2018
Samples Analysed:	4 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 18-96826

Project / Site name: Blackwell Farm Road

Lab Sample Number				1025468	1025469	1025470	1025471	
Sample Reference				WS1	WS2	WS3	WS5	
Sample Number				D6	D5	None Supplied	None Supplied	
Depth (m)				2.00	1.50	2.70	2.70	
Date Sampled				09/08/2018	09/08/2018	09/08/2018	09/08/2018	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Stone Content				%	0.1	NONE	< 0.1	< 0.1
Moisture Content				%	N/A	NONE	21	23
Total mass of sample received				kg	0.001	NONE	0.32	0.93

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.2	7.1	6.8	7.2	
Total Sulphate as SO ₄	%	0.005	MCERTS	0.095	0.040	0.147	0.091	



Analytical Report Number : 18-96826

Project / Site name: Blackwell Farm Road

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1025468	WS1	D6	2.00	Brown clay and sand with gravel and vegetation.
1025469	WS2	D5	1.50	Brown clay.
1025470	WS3	None Supplied	2.70	Brown clay with gravel and glass.
1025471	WS5	None Supplied	2.70	Brown clay with gravel.

Analytical Report Number : 18-96826

Project / Site name: Blackwell Farm Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests"	L038	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

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