



Report
Title:

Phase 1 Geo-Environmental Desk Study

Project
Name:

Land at Bilsham Road, Yapton



Report Reference: **BRD2693-OR1-B**

Date: **April 2017**

REPORT CONTROL SHEET

REPORT TITLE	PHASE 1 GEO-ENVIRONMENTAL DESK STUDY
PROJECT	LAND AT BILSHAM ROAD, YAPTON
CLIENT	GLEESON DEVELOPMENTS

REPORT REFERENCE	ISSUE DETAIL	DATE	PREPARED BY	CHECKED BY
BRD2693-OR1-A	First Issue	25/ 04/ 2016	M Morgan	R Davies
BRD2693-OR1-B	Updated with revised site boundary	25/ 04/ 2017	A Neyt	M Morgan

BRD Environmental Limited

Geotechnical and Environmental Services

Specialists in the investigation, assessment and reclamation of development land.

Hawthorne Villa, 1 Old Parr Road,
Banbury, Oxfordshire. OX16 5HT

The information and advice contained within this report is provided by BRD Environmental Limited (BRD) for the sole use and reliance by its Client in performance of BRD's duties under its contract with the Client. Any advice, opinions or recommendations within this report should be read and relied upon only in the context of the report as a whole. The advice within the report is based upon the information made available to BRD within the financial and timeframe constraints imposed. BRD relied on the accuracy of the information contained in the third party documents consulted and is in no circumstances responsible for the accuracy of such information or data supplied. The report is prepared with reasonable skill and care based generally on UK standards, codes and common practice current at the time of writing. When considering this report due regard should be given to the terms and conditions of BRD's contract with the Client under which the report was prepared. The copyright of this report is held by BRD. Should the Client wish to release this report to a Third Party for that party's reliance, BRD agree to such release provided that BRD assumes no duties, liabilities or obligations to the Third Party, that the Third Party does not acquire any rights whatsoever against BRD, and BRD accepts no responsibility for any loss incurred by the Client through the Client's release of the report to the Third Party. Following final issue of this report, BRD has no further obligation to advise the Client on any matters such as changes in legislation or codes of practice that may affect the advice contained within the report.

REPORT LAYOUT

This report is divided into the following four sections: Summary Report, Technical Report, Supporting Information and Appendices.

SUMMARY REPORT

This expanded executive summary provides the main findings of the work undertaken in brief non-technical language. This section provides an overview of the key outcomes for the benefit of non-specialists and concludes with the main recommendations. This section should only be relied upon in the context of the whole report and the Technical Report should be referred to with respect to any design decisions.

TECHNICAL REPORT

The main report section is intended to provide the technical detail of the investigation and is intended to provide the level of information required by current guidance documents and practice. The Technical Report is written in a language that, in part, assumes knowledge of subject matter so that it can be written in as concise a form as possible. Its intended audience is peers, regulators and other professionals in related disciplines.

1.	INTRODUCTION TO TECHNICAL REPORT	1
1.1.	CONTRACT DETAILS	1
1.2.	SCOPE OF WORKS	1
1.3.	REPORT LIMITATIONS	1
2.	SITE CHARACTERISTICS	3
2.1.	SITE SETTING	3
2.2.	SITE DESCRIPTION	3
2.3.	SITE HISTORY	5
2.4.	GEOLOGY	6
2.5.	HYDROGEOLOGY	7
2.6.	HYDROLOGY	8
2.7.	ENVIRONMENTAL ASPECTS	9
2.8.	PREVIOUS GROUND INVESTIGATIONS	9
3.	PRELIMINARY CONTAMINATION RISK ASSESSMENT	10
3.1.	HAZARD IDENTIFICATION	10
3.2.	RECEPTOR ASSESSMENT	11
3.3.	INITIAL CONCEPTUAL MODEL	12
3.4.	PRELIMINARY ASSESSMENT OF CONTAMINATION RISKS	13
3.5.	RECOMMENDATIONS	14

4.	IMPLICATIONS FOR CONSTRUCTION	16
4.1.	GEOTECHNICAL CONSIDERATIONS	16
4.2.	PRELIMINARY GEOTECHNICAL ASSESSMENT	17
4.3.	CONSTRUCTION CONSIDERATIONS	17
REFERENCES		
SUPPORTING INFORMATION		
This section of the report provides background details of a generic nature together with specific technical approaches adopted by BRD and details of the guidance documents that are commonly referenced in the report. The section also includes explanations of technical terms to assist non-specialist readers in understanding the Technical Report. It should be noted that not all the information within this section is necessarily applicable to this specific report.		
APPENDICES		
The final section of the report presents the factual data collected and employed as part of the investigation.		
APPENDIX 1	SITE PLANS & PHOTOGRAPHS	
	Site Location Plan	Ref. BRD2693-OP1-B
	Site Layout Plan	Ref. BRD2693-OP4-A
	Walkover Photographs	Ref. BRD2693-OP2-B
	Initial Conceptual Site Model	Ref. BRD2693-OP3-B
APPENDIX 2	HISTORICAL PLANS	
	Order No. 84657229_1_1	38 x A3 pages
APPENDIX 3	ENVIROCHECK REPORT	
	Order No. 84657229_1_1	68 x A4 pages & 18 x A3 pages

SUMMARY REPORT

SUBJECT	COMMENTS
CURRENT USE & DESCRIPTION	The site consists of three adjoining ploughed agricultural fields bound by trees, hedgerows and adjacent residential properties.
PROPOSED USE	It is proposed that the site will be developed as a residential housing estate.
HISTORICAL SUMMARY	The site has remained undeveloped throughout its mapped history. A stream formerly crossed part of the site and was diverted to a culvert at the end of the 19 th century. The residential area immediately to the east has been gradually developed from the 1930s through to the 1980s.
PUBLISHED GEOLOGY	The site is shown to be underlain by superficial deposits comprising sandy, clayey silts of the Aeolian Deposits. The shallowest bedrock unit is shown to be the Upper Chalk Formation.
RADON GAS	The site is in an area where no radon protection measures are required in new dwellings.
HYDROGEOLOGY	The site is situated upon superficial deposits designated a Secondary A Aquifer. The underlying bedrock geology is designated a Principal Aquifer. The site is not located within a groundwater Source Protection Zone.
HYDROLOGY	The closest water feature to the site is the stream which runs along part of the south eastern boundary and is then diverted to culvert crossing the south western part of the site. Ditches also form part of the western boundaries. The area of the site in proximity to the stream and culvert are shown to be at risk from flooding.
PREVIOUS GROUND REPORTS	BRD is not aware of any previous ground investigations having been conducted at the site.
PRELIMINARY CONTAMINATION RISK ASSESSMENT	
The vast majority of the site is unlikely to be significantly contaminated. However, low to medium risks have been identified from infill of a former deep drainage ditch, fly-tipped waste around parts of the site boundary and potential pesticide residues in the soils. This limited potential contamination may be a cause for concern to human health, the water environment and water supply pipes.	

PRELIMINARY GEOTECHNICAL ASSESSMENT

The anticipated near surface geology underlying the site of Aeolian Deposits may potentially comprise low strength soils, thereby making the stratum unlikely to be suitable for the adoption of standard trench fill/strip footings. Wider, reinforced strip footings could be employed to spread loads over a wider area, or ground improvement may be required. Alternatively a piled foundation solution could be considered.

Depending on the composition of the superficial deposits i.e. should clayey or silty soils be encountered at a shallow depth, the trees and hedges along the site boundaries may have an impact on the soils, and foundations in close proximity to existing or proposed trees, may need to be deepened.

Soakaways may be viable at the site, depending on whether granular deposits are encountered within the superficial Aeolian Deposits. If the Chalk bedrock is relatively shallow and/or fractured, deeper borehole style soakaways may be feasible.

RECOMMENDATIONS

Phase 2 Contamination Assessment	For any form of development, BRD recommend that an intrusive ground investigation is undertaken in order to confirm ground conditions and allow design of the new structures.
Geotechnical Ground Investigation	It is therefore recommended that an intrusive ground investigation is completed for the site including both contamination and geotechnical assessments.

1. INTRODUCTION TO TECHNICAL REPORT

1.1. CONTRACT DETAILS

CLIENT	Gleeson Developments Limited trading as Gleeson Developments.
SITE	Land situated at Bilsham Road in the village of Yapton, West Sussex.
CLIENT'S ADVISORS	BRD Environmental Limited (BRD) has been commissioned directly by the Client.
REPORT CONTEXT	It is understood that the Client intends to purchase the site and develop it for residential housing.
REPORT TYPE	Factual and interpretative geo-environmental desk study.
REPORT OBJECTIVES	The purpose of this report is to undertake a preliminary geo-environmental assessment of the site to supplement the marketing information for selling the site.

1.2. SCOPE OF WORKS

The agreed scope of works was:

- Purchase of an Envirocheck database report and historical Ordnance Survey plans.
- Interpretation of the geological, hydrogeological and hydrology setting of the site from published sources.
- A site walkover survey by a suitably experienced Geo-Environmental Consultant involving the inspection of the site and the surrounding area for indications of contamination and other ground related issues.
- Prepare a factual and interpretative report based on the information collected to identify and assess any geotechnical or contamination hazards. Where appropriate, it shall provide detailed recommendations for further work.

1.3. REPORT LIMITATIONS

Any site boundary lines depicted on plans included within this report are approximate only and do not imply legal ownership of land. Any observations of tree species, asbestos containing materials within structures or invasive weeds, such as Japanese Knotweed, does not constitute a formal survey of such features. The identification of such features is therefore tentative only. The report does not consider whether sensitive ecology or archaeology is present as these require consideration by professionals specialising in these matters. It should be recognised that the collection of desk study information may not be exhaustive and that other information pertinent to the site may be available.

It is emphasised that a desk study and walkover can only indicate the potential for contamination on the site. This study aims to highlight potential pollutant linkages in line with current guidance. The plausibility of these linkages can only be proved by an intrusive ground investigation.

It should be noted that a desk study and walkover can only reveal the potential for certain types of ground conditions and geotechnical hazards. For any form development an intrusive ground investigation is recommended. The scope of this investigation excludes a formal slope stability study and any observations made regarding slopes are for information only.

It should be noted that the site boundary as shown on the Envirocheck report and historic maps in Appendix 2 and 3 do not include the western most field which has been included for this Version B report.

2. SITE CHARACTERISTICS

2.1. SITE SETTING

SITE ADDRESS AND POST CODE	Land at Bilsham Road at the south western edge of the village of Yapton, West Sussex. The nearest post code is BN18 0HB.
NATIONAL GRID REFERENCE	497620E, 102800N.

2.2. SITE DESCRIPTION

INSPECTION DATE	19 th April 2016 and inspection of additional area on 18 th April 2017.
CURRENT USE	The site consists of three adjoining agricultural fields, two of which are ploughed, and the third being a grass field. The western (grass) field is divided from the other two fields by a hedgerow and ditch.
AREA	Approximately 11.3 hectares.
SHAPE	The overall site is irregular in shape, however, the northern field forms a square shape and the southern field forms an 'L' shape joining the northern area at its northern corner. A third, rectangular field to the west fits into the corner produced by the other two fields, all of which are orientated at 45 degrees.
ACCESS	Vehicular access is gained from the south eastern boundary of Bilsham Road and there is also a wide access point from Gladstone Road around 100m west of the main access. There are various other pedestrian access points most notably from a track which runs just to the north of the site and a public footpath which enters the site halfway up the eastern boundary.
BOUNDARIES	The eastern boundaries 'zig zag' north to south adjacent to the existing residential properties. These boundaries are all formed by wooden fences, with the exception of the south eastern boundary of the northern field which consists of a metal security fence. The western boundaries all border agricultural fields. The north western boundary of the northern field consists of a hedgerow and trees adjacent to a track. The south western boundary of the northern field and the north western boundary of the southern field consist of a ditch and hedgerow. The south western boundary of the southern field consists of wooden agricultural style fence with a ditch also present at the northern end. The north western and south western boundaries of the western rectangular field border agricultural fields and consist of a ditch and hedgerow.

TOPOGRAPHY	The site is relatively flat. The ditches along the western boundaries and dividing the north eastern and western fields are around 1m deep, however, there is a deeper ditch/ stream along part of the eastern boundary of the southern section which is around 2m deep prior to entering a culvert.
SURFACING	The vast majority of the site is ploughed field while the rectangular field is covered with grass. There is a public right of way crossing the southern area, and most of the boundaries are well trodden by dog walkers. A few areas adjacent to the boundaries are relatively overgrown as well as a relatively large section dividing the two fields.
BUILDINGS	There are no buildings present on site.
VEGETATION	The north western boundary of the southern field, as well as the south western and north western boundaries of the northern field and the western and southern boundaries of the rectangular field consist of a mixture of trees and hedgerow. Notably there is a large oak tree adjacent to the ditch dividing the north eastern and western fields. Along the eastern boundaries adjacent to the residential properties is typically a grass verge, areas overgrown with brambles and occasional trees. Adjacent to the deeper ditch/ stream is relatively overgrown with small trees and hedges. There is also an overgrown area dividing the two fields, consisting predominantly of brambles.
NOTABLE FEATURES AND OBSERVATIONS	Along most of the boundaries with the residential properties there is a relatively large amount of garden waste which had been dumped. This increased along the mid-section of the eastern boundary with additional waste, such as old tyres and various rubbish present adjacent to the boundary. As previously mentioned, there is a stream running along the south western boundary of the southern area. The stream is in a relatively deep ditch and enters a culvert with a brick headwall and crosses beneath the south western section of the field. The culvert runs a distance of around 200m and enters a deep ditch again 65m to the south west of the site boundary. In the extreme eastern area where the stream enters the site, the water was ponded, prior to it flowing beneath a small bridge where the public footpath enters the site. The soils exposed at the surface were noted to be a 'brown silty sandy slightly gravelly clay'. The soils were relatively dry, but there are a few deep ruts in the field indicating that the ground conditions can rapidly deteriorate when wet.

SURROUNDING LAND USE	The site is set on the western edge of the village of Yapton with predominantly residential houses to the east and open fields to the west.
To the North	To the north west are open fields. To the north east are residential properties.

To the East	Residential properties.
To the South	Agricultural fields.
To the West	Agricultural fields.

2.3. SITE HISTORY

MAPPED HISTORY		
DATE RANGE	SITE	SURROUNDING AREA
1876-1913	The site consists of part of three larger open fields extending across the wider area. A footpath is shown to cross the north eastern corner. What appears to be a stream/ ditch is shown crossing the south western section and a ditch is present along the south eastern boundary of the northern section. By the 1898 map the stream is no longer shown on site and appears to have been culverted as it remains present 70m to the south west of the site. The ditch remains along the south eastern boundary.	The Chichester Arundel canal is shown 125m to the north of the site with the edge of the village of Yapton just beyond. The canal is shown to be disused by the 1897 map. The 1897 map also shows a brick works 150m to the north east of the site with a shallow cutting edge around the periphery. A small farm building is shown immediately adjacent to the south western boundary of the northern area.

MAPPED HISTORY		
DATE RANGE	SITE	SURROUNDING AREA
1937-Present	The 1940 map shows the northern most field to have been split into three smaller fields. By 1975 the northern most field is at its current extent. The 1989 map shows the footpath to follow the edges of the fields crossing the centre of the site.	The brickworks to the north east is no longer present and has been built over with a mixture of residential properties and a caravan park. The village of Yapton sees gradual expansion throughout this period and has expanded with residential properties including some immediately to the east of the southern section of the site by the 1940s and the remaining area immediately to the east of the site developed throughout the 1960s and 1970s. The building to the south west of the northern area is no longer shown by the 1940 map. The old canal to the north is backfilled and built over with a mixture of residential properties and roads throughout this time. The 1992 map shows a small industrial estate 80m to the south of the site. By 2016 this has been redeveloped as a small housing estate.

AERIAL IMAGERY	Various aerial images present on Google Earth, as well as the Envirocheck report confirm the use of the site as agricultural fields from 1999 onwards.
INTERNET SEARCH	No information specific to the site was identified.
ANECDOTAL	No anecdotal evidence of site history was gained during the study.

2.4. GEOLOGY

GEOLOGICAL CONTEXT	The site is located within an area of Cretaceous Bedrock which was formed between 71 million and 94 million years ago when the local environment was dominated by warm chalk seas. These conditions gave rise to various chalk strata. Superficial deposits are widespread in the area and comprise a variety of deposits including, beach/tidal flats, raised beach deposits, raised marine deposits, brick earth, head, Aeolian deposits and river terrace deposits.
---------------------------	--

SUPERFICIAL DEPOSITS	The site is indicated to be underlain by Aeolian Deposits (formerly known as 'brickearth') which are typically described as 'sandy, silty clay with some flint gravel'.
BEDROCK GEOLOGY	The site is indicated to be underlain by the Upper Chalk Formation, which is the collective name given to chalk strata comprising the Lewes Nodular Chalk Formation, the Seaford Chalk Formation, the Newhaven Chalk Formation, the Culver Chalk Formation and the Portsdown Chalk Formation. The exact formation underlying the site is unknown but the bedrock is typically described as 'White, chalk with flints'.
BGS BOREHOLE RECORDS	A BGS borehole record for a location 290m to the north of the site encountered 'brickearth' to a depth of 3.0m which had increased gravel content from 1.9m onwards. Then at 3.9m the Upper Chalk was encountered. BRD has also completed site investigation works in other sites in Yapton and encountered the Aeolian Deposits consisting of slightly gravelly clays and sands to typical depths to between 3m to 5m overlying the Upper Chalk.
SOIL GEOCHEMISTRY	The site is not situated in an area where the natural background concentrations of metals are elevated.
RADON	The site is located in an area where radon protection measures are not required.
GROUND STABILITY HAZARDS	No significant ground hazards have been identified on the site or in close proximity to the site. Although chalk bedrock is indicated to be present beneath the site, the site is within a low risk area for ground dissolution hazards.

2.5. HYDROGEOLOGY

SUPERFICIAL AQUIFER	Secondary A aquifer.
BEDROCK AQUIFER	Principal aquifer.

AQUIFER PROPERTIES	The superficial Aeolian Deposits indicated to be present at the site, may contain granular material and therefore shallow groundwater may be present. The bedrock is part of the White Chalk Subgroup which is a highly productive aquifer. It is described as 'Principal aquifer in UK up to 450 m thick and yielding 50 to 100 L/s from large diameter boreholes and up to 300 L/s from adited systems. Hard to very hard, good quality water'. Data from a nearby site would suggest that the groundwater can rise up into the superficial deposits after periods of prolonged rainfall, but the remainder of the time the groundwater rests within the chalk at depths of greater than 4m bgl.
LICENSED GROUNDWATER ABSTRACTIONS	None within 250m from the site.
GROUNDWATER SOURCE PROTECTION ZONE (SPZ)	Not located within a SPZ.

2.6. HYDROLOGY

SITE DRAINAGE CHARACTERISTICS	Surface water will infiltrate directly into the underlying soils, or will run-off into the drainage ditches or stream.
SURFACE WATER FEATURES	A stream runs along the south eastern boundary of the southern area in a 2m deep ditch. This enters the site from a culvert in the south eastern corner of the southern field and enters a ponded area which subsequently flows into a 2m deep ditch and then into a deep culvert which crosses the field and heads off site to the south west. The water was flowing through the culvert at a relatively slow rate and the water appeared to be clear. Running between the north eastern and western field and along the north western boundary of the southern field is a another shallow drainage ditch with intermittent standing water, but no obvious flow at the time of the walkover.
SURFACE WATER ABSTRACTIONS	None within 250m from the site.
DISCHARGE CONSENTS	None relevant to consideration of the site.
FLOODING	The majority of the site consists of a Zone 1 area and is highly unlikely to be affected by flooding. However, the ditch and culvert area running south west across the southern area has an associated Zone 3 and Zone 2 flooding areas crossing the site and may be subject to flooding. Due to the size of the site, a detailed Flood Risk Assessment will be required regardless.

2.7. ENVIRONMENTAL ASPECTS

LANDFILL	Some sections of the infilled canal to the north of the site are identified as being landfilled, however, these are in excess of 250m from the site. The infilled canal is located 125m from the site at its closest point, and although not identified as a landfill in this location, does appear to have been backfilled. The former brickworks 150m to the north east of the site is highlighted as potentially infilled ground. During the walkover, a brief inspection of the area was conducted and it could be seen that the area remains lower than its surroundings therefore, the potential for any significant infilling is reduced. Potentially infilled land (water) is also shown along the south eastern boundary adjacent to the location of the stream prior to it entering the culvert. Site inspection confirms that the stream is in a relatively deep ditch and the area has not been backfilled. However, in the location of the culvert crossing the site, there is the potential for soils to have been backfilled, especially given the depth of the stream relative to the field.
CONTEMPORARY TRADE DIRECTORY ENTRIES	No nearby contemporary trade entries of relevance to assessment of the site.
REGISTERED HAZARDOUS SITES	None within 250m of the site.
POLLUTION INCIDENTS TO CONTROLLED WATERS	There have been no recorded pollution incidents within 250m of the site.
ECOLOGICALLY SENSITIVE LAND USE	None identified within 250m.

2.8. PREVIOUS GROUND INVESTIGATIONS

BRD is not aware of any previous ground investigation at the site.

3. PRELIMINARY CONTAMINATION RISK ASSESSMENT

3.1. HAZARD IDENTIFICATION

INVALID CONTAMINATION SOURCES	
HISTORIC LAND USE	DISCUSSION AS TO WHY THE HISTORICAL USE IS NOT CONSIDERED TO PRESENT A PLAUSIBLE HAZARD
Nearby infilled ground	There is some identified nearby infilled ground associated with an old infilled canal 125m to the north as well as potentially from an old brick works 150m to the north east which could present a potential landfill gas migration risk to the site. Neither features are identified as registered landfills. The canal represents a relatively small and shallow feature which appears to have been partially backfilled over 50 years ago. The old brick works ceased operations over 70 years ago and it is evident that the area is unlikely to have been significantly backfilled. There are also extensive residential properties in the area between the site and these features which have not been affected, and coupled with the relatively low permeability clay soils in the intervening area, it is not considered that the site could be affected by these potential gas sources.

POTENTIAL ON SITE SOURCES		
HISTORIC LAND USE	DESCRIPTION OF POTENTIAL CONTAMINATION HAZARD	POTENTIAL CONTAMINANTS OF CONCERN
Potential infill for culverted stream.	Historically, a deep ditch crossed the southern part of the site, but the stream has since been culverted. The ditch has therefore been backfilled above the culvert. The historic mapping suggests that this was completed in the late 19 th century. Although visual inspection of the exposed soils did not reveal any signs of contamination, there is a small possibility that hazardous materials could be present at depth, as well as the potential presence of organic material which could generate landfill gases.	Metals. Polycyclic Aromatic Hydrocarbons (PAH). Asbestos containing materials. Landfill gases (mainly carbon dioxide and methane).
Pesticides from agricultural use.	The agricultural land use is unlikely to give rise to any significant contamination sources. However, given the site is use for arable farming, there is the potential for pesticide residues to be present in the near surface soils.	Pesticides.

POTENTIAL ON SITE SOURCES		
HISTORIC LAND USE	DESCRIPTION OF POTENTIAL CONTAMINATION HAZARD	POTENTIAL CONTAMINANTS OF CONCERN
Fly tipping along site boundary.	There is a reasonable amount of waste which has been dumped over the fences of the adjacent residential properties along parts of the eastern site boundary. There is the possibility that hazardous materials such as asbestos, or ash from bonfires could have been dumped and therefore contaminated the upper soils close to the boundary.	Metals. Polycyclic Aromatic Hydrocarbons (PAH). Asbestos containing materials.

POTENTIAL OFF SITE SOURCES		
HISTORIC LAND USE	DESCRIPTION OF POTENTIAL CONTAMINATION HAZARD	POTENTIAL CONTAMINANTS OF CONCERN
No significant potential off site contamination sources have been identified in the surrounding area.		

3.2. RECEPTOR ASSESSMENT

CONTEXT	
ASSESSMENT LAND USE CATEGORY	Residential.
DESCRIPTION OF PROPOSED LAND USE	The proposed end use of the site is for the development of a residential housing estate with associated private gardens, off street parking, new access roads and areas of open space. At the time of writing no formal proposed layout had been provided.

RECEPTORS	
RECEPTOR	DISCUSSION
HUMAN HEALTH	Residents with zero to 6 year old child most sensitive receptor.
CONTROLLED WATERS GROUNDWATER	Underlying Secondary A and Principal aquifers.
CONTROLLED WATERS SURFACE WATER	Surface water stream crossing site and ditches around periphery.
BUILDING MATERIALS AND SERVICES	Water service pipes. Buried concrete.

3.3. INITIAL CONCEPTUAL MODEL

POLLUTANT LINKAGES	The pollutant linkages are best presented in a diagrammatic form and therefore the initial conceptual site model plan is presented in Appendix 1. The individual pollutant linkages as numbered on the plan are described further in Section 3.4.
INVALID POLLUTANT LINKAGES	It is not considered that the potential presence of pesticide residues would present any valid pollutant linkage to future building materials and services.
LIMITATIONS AND UNCERTAINTIES	The preliminary conceptual model has been developed based solely on desk based research and assessment. The only way to conclusively determine the presence or absence of contamination is with intrusive site investigation.

3.4. PRELIMINARY ASSESSMENT OF CONTAMINATION RISKS

The following table identifies the potential risks that exist to the receptors through each of the identified pollutant linkages in the conceptual site model. It should be noted that the numbers referred to for each of the pathways refers to the numbered pollutant linkages from the Initial Conceptual Site Model Plan, as presented in Appendix 1.

POTENTIAL SOURCES AND CONTAMINANTS	PATHWAYS (REFERENCE FROM MODEL)	RECEPTORS	HAZARD SEVERITY	PROBABILITY OF OCCURRENCE	POTENTIAL RISK
Contaminated Made Ground associated with infilled/ culverted stream/ ditch.	Direct contact. (1) Ingestion of soils/ dusts. (1) Inhalation of dusts/ vapours or gasses. (2) Consumption of homegrown produce. (1)	Future Residents	Human health effects [Medium]	Due to the age of backfill and visual appearance of the surface soils, it is considered unlikely that there is any significant contamination in this area [low likelihood]	Moderate / low
	Horizontal & vertical migration. (3)	Water Environment	Contamination of stream culverted through infill, underlying Secondary A and Principal Aquifer, however, no nearby water abstractions [medium]	Due to the age of backfill, any potential contamination would likely have leached through historically and it is unlikely that any significant leachable contamination would remain. [unlikely]	Low
	Direct Contact. (4)	Building materials and services.	Minor degradation of sub-surface structures [mild]	Due to the age of backfill and visual appearance of the surface soils, it is considered unlikely that there is any significant contamination in this area [low likelihood]	Low
Agricultural field -Pesticide residues	Direct contact. (5) Ingestion of soils/ dusts. (5) Inhalation of dusts/ vapours. (6) Consumption of homegrown produce. (5)	Future Residents	Human health effects [Medium]	The concentrations of pesticide residues within the near surface soils are unlikely to be significant [Low likelihood]	Moderate / low

POTENTIAL SOURCES AND CONTAMINANTS	PATHWAYS (REFERENCE FROM MODEL)	RECEPTORS	HAZARD SEVERITY	PROBABILITY OF OCCURRENCE	POTENTIAL RISK
	Horizontal & vertical migration. (7)	Water Environment	Contamination of stream culverted through potential infill, underlying Secondary A and Principal Aquifer, however, no nearby water abstractions [medium]		Moderate / low
Soil contamination associated with fly-tipped waste along boundaries.	Direct contact. (8)	Future Residents	Human health effects [Medium]	Moderate potential for hazardous materials to have been dumped but unlikely to have become significantly buried or incorporated into the soil [low likelihood]	Moderate / low
	Ingestion of soils/ dusts. (8)				
	Inhalation of dusts/ vapours. (9)				
	Consumption of homegrown produce. (8)				
	Horizontal & vertical migration. (10)	Water Environment	Contamination of stream culverted through infill, underlying Secondary A and Principal Aquifer, however, no nearby water abstractions [medium]		Moderate / low
	Direct Contact. (11)	Building materials and services.	Minor degradation of sub-surface structures [mild]	Unlikely that contamination would extend to any significant depth within the soils, at which buried structures would be placed. [unlikely].	Negligible

3.5. RECOMMENDATIONS

Potential moderate to low contamination risks have been identified by this Phase 1 Desk Study and therefore a Phase 2 Contamination Assessment is necessary to assess the significance of these potential pollutant linkages. It is recommended that this next phase of assessment includes the following investigation elements in order to address the identified contamination sources:

- Three days of machine excavated trial pits to yield around 25-30No. trial pits to depths of around 3.0m. This will enable a detailed record of the exposed ground conditions.

- Two days of windowless sample boreholes to yield 10-12No. boreholes to depths of 4-5m to assess the in-situ density and enable the installation of gas/ groundwater monitoring wells.
- A series of 6No. gas monitoring visits to be completed to assess the potential low gas risk to the site.
- A selection of samples to be taken from the exploratory points to include sampling for heavy metals, speciated Polycyclic Aromatic Hydrocarbons (PAH), banded aliphatic/aromatic Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), pesticides and asbestos screening.
- Provision of a combined factual and interpretative investigation report. Factual findings to include all exploratory point records, monitoring and test results. Interpretative reporting to include a Generic Quantitative Contamination Risk Assessment (GQRA) and waste classification.

4. IMPLICATIONS FOR CONSTRUCTION

4.1. GEOTECHNICAL CONSIDERATIONS

The following is a checklist summary of geotechnical hazards and their likelihood to have an impact on the proposed development of the site.

GEOTECHNICAL HAZARD	LIKELY TO AFFECT SITE?	COMMENT
Removal of existing sub-structures affecting new foundations.	✗	
Deep Made Ground.	✗	There could be up to 2m of Made Ground adjacent to the culvert, but it is unlikely that any significant development would occur in this part of the site due to the presence of this water feature.
Historic wells.	✗	
Soft or compressible natural deposits such as Alluvium or Peat.	✓	The Aeolian Deposits may comprise low strength soils which could impact on foundation design.
Changes in ground conditions within short distances.	✗	
Fine soils that have a volume change capacity.	✓	Aeolian deposits in the area known to have a low to medium volume change potential, therefore it is likely that this characteristic of the soils will have an impact on the foundation design. Existing and proposed trees will further complicate foundations.
Dissolution features or 'swallow holes'.	✗	The chalk bedrock underlying the site may be susceptible. However, the site is located within an area classified as 'very low' risk for dissolution features.
Cambering of valley sides with possibility of 'gulls'.	✗	
Risk of slope instability.	✗	
Shallow groundwater.	✓	Could present construction difficulties and have implications for the design of sub-surface structures.
Underground mining.	✗	

GEOTECHNICAL HAZARD	LIKELY TO AFFECT SITE?	COMMENT
Geological faults.	x	
Aggressive chemical environment for concrete e.g. expansive slag or high sulphate soils.	x	

4.2. PRELIMINARY GEOTECHNICAL ASSESSMENT

The anticipated near surface geology underlying the site of Aeolian Deposits may potentially comprise low strength soils, thereby making the stratum unlikely to be suitable for the adoption of standard trench fill/strip footings. Wider, reinforced strip footings could be employed to spread loads over a wider area, or ground improvement may be required. Alternatively a piled foundation solution could be considered.

Depending on the composition of the superficial deposits i.e. should clayey or silty soils be encountered at a shallow depth, the trees and hedges along the site boundaries may have an impact on the soils, and foundations in close proximity to existing or proposed trees may need to be deepened.

Soakaways may be viable at the site, depending on whether granular deposits are encountered within the superficial Aeolian Deposits. If the Chalk bedrock is relatively shallow and/or fractured, deeper borehole style soakaways may be feasible.

For any form of development, BRD recommend that an intrusive ground investigation is undertaken in order to confirm ground conditions and allow design of the new structures. It is recommended that the ground investigation for geotechnical assessment includes the following elements, in addition to what is proposed for the contamination assessment (Section 3.5):

- Geotechnical testing as appropriate to the nature of the ground conditions encountered.
- Inclusion of a Geotechnical Assessment report providing comments on pavement design, concrete classification, soakaway feasibility and foundation design recommendations.

4.3. CONSTRUCTION CONSIDERATIONS

As with any construction site, if any anomalous material is encountered during the redevelopment then expert environmental advice should be sought.

REPORT SPECIFIC REFERENCES

- British Geological Survey sheet 317/ 332 “Chichester and Bognor” Solid and Drift edition (1:50,000) published 1996.

SUPPORTING INFORMATION

SITE CHARACTERISTICS

The site characteristics are collated from various information sources, including but not limited to Ordnance Survey, British Geological Survey (BGS), Environment Agency (EA) and local authorities.

BRD generally commission the Landmark Information Group to produce an Envirocheck Report for study sites and where employed this is included in the Appendices. It should be noted that some of the data provided in the Envirocheck report is not considered within BRD's interpretation for the site characteristics as it is not relevant. Examples of this are:

- Nitrate Sensitive Zones and Nitrate Vulnerable Zones are ignored as these are only applicable to agricultural activities relating to the application of manure and fertilisers to land.*
- River Quality is ignored as at this preliminary stage of risk assessment as all surface water bodies are considered equally sensitive to contamination risks.*

In assessing site characteristics, BRD also consider the area within a surrounding 250m buffer zone extending from the site boundary.

HISTORY

Mapped History

The site history summarises the changes in use or layout of the site over time and is largely developed from a study of available Ordnance Survey maps. It should be noted that changes to the site may have occurred between the editions of the maps employed to assess the history of the site. Historical information of relevance within the 250m surrounding the site is also discussed in a separate section. The historical plans referred to in the text are generally included in an Appendix.

Aerial photography

As a minimum, current and historical aerial images of the site and surrounding areas are studied from the Google Earth program. Where additional historic aerial photographs have been purchased then these are referenced within the technical report.

Internet Searches

A simple search of the internet for relevant material relating to the use or history of the site is made. Information obtained from internet searches has been accepted as fact without validation by BRD except for ensuring the source is reputable. It should be recognised that due to programme and budgetary constraints the search conducted may not have revealed all the information available.

GEOLOGY

The geology of the site is assessed by reference to the relevant British Geological Survey (BGS) 1:50,000 scale sheet in Bedrock and Superficial (historically Solid and Drift) edition. Many of these geological maps are relatively old with superseded terminology and descriptions. BRD therefore employ the BGS Open Geoscience website to determine current nomenclature of strata and to assist in determining geological boundaries against current topographic features. BRD also employ BGS Regional Geology Guides to assist in understanding the geological context of the site.

Ground Stability Hazards

Ground stability hazards caused by mining, ground dissolution, landslide potential, collapsible ground and natural cavities are identified by the Envirocheck database search of records held by The Coal Authority, British Geological Survey and studies completed by Ove Arup and Peter Brett Associates.

The Envirocheck database ground stability hazard entries for compressible ground, running sands and shrinking or swelling clays are not discussed directly. This is because these hazards are very common and are considered within the preliminary geotechnical assessment where necessary.

Radon

Radon is a naturally occurring colourless and odourless gas that is radioactive. It is formed by the radioactive decay of radium which in turn is derived from the radioactive decay of uranium, both of which are minerals that can be found in many soil types. Whilst it is recognised that the air inside every house contains radon, some houses built in certain defined areas of the country might have unacceptably high concentrations and require special precautions to be taken during construction to reduce this risk.

Radon can move through cracks and fissures in the soil into the atmosphere or into dwellings via basements and/or underfloor voids. If radon enters the living space of dwellings its concentration can potentially increase and provide a risk to human health as the inhalation of the radioactive decay products of radon gas can increase the risk of developing lung cancer.

The maps contained within BRE211:2007 'Radon: guidance on protective measures for new buildings' identify areas where no radon protection measures are necessary or where higher concentrations are present that either basic or full radon protection measures are required to be fitted to all new dwellings. However, some local authorities have local bylaws, that BRD may not be aware of, that insist on radon protection to all new dwellings within their area regardless of the recommendations of the BRE211 Radon report.

Basic radon protection measures comprise incorporation of a continuous gas resistant membrane sealed at joints and around service entries into the floor construction and extended across the cavity tray.

Full radon protection measures comprise incorporating a continuous gas resistant membrane into the floor construction together with a ventilated sub-floor void through either the use of suspended floor construction or a 'radon sump'. The membrane is sealed at joints and around service entries into the floor and extended across the cavity tray.

BRE211 should be referred to for detail on the construction of the protective measures.

HYDROGEOLOGY

Aquifer Designations

The Environment Agency's Groundwater Protection Policy uses designations that reflect the importance of aquifers in terms of groundwater as a drinking water resource, but also their role in supporting surface water flows and wetland ecosystems.

In defining groundwater vulnerability, both the superficial (drift) deposits and bedrock (solid) geology are considered separately with the following aquifer designations:

- *Principal Aquifers: These are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.*
- *Secondary Aquifers: These include a wide range of rock layers or drift deposits with an equally wide range of water permeability and storage. Secondary aquifers are subdivided into two types:*
 - *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.*
 - *Secondary B - predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.*
- *Secondary Undifferentiated - has been assigned in cases where it has not been possible to attribute either category A or B to a rock type.*
- *Unproductive Strata: These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.*

Source Protection Zones

The Environment Agency (EA) has defined Source Protection Zones for groundwater sources, such as boreholes and springs, that are used for public water supply. The EA uses the zones to target pollution prevention measures and monitor the activities of potential polluters within the affected area. There are three types Source Protection Zone:

- *Zone 1 (Inner Protection Zone) is the most sensitive area within which pollution could reach the borehole within 50 days. Alternatively it is defined by a minimum 50m radius around the borehole.*
- *Zone 2 (Outer Protection Zone) are defined by the area within which pollution could reach the borehole within 400 days or 25% of the total catchment area.*
- *Zone 3 (Total Catchment) are defined by the total area required to support the removal of water from the borehole.*

HYDROLOGY

Flooding

The Environment Agency has zoned England and Wales in respect of the risk from flooding from 'highly unlikely' in Zone 1 to 'likely' in Zone 3. The zones ignore the presence of flood defences or certain other manmade structures and channel improvements.

National Planning Policy Framework, Department for Communities and Local Government, dated March 2012 states "A site-specific flood risk assessment is required for proposals of 1 hectare or greater in Flood Zone 1; all proposals for new development (including minor development and change of use) in Flood Zones 2 and 3, or in an area within Flood Zone 1 which has critical drainage problems (as notified to the local planning authority by the Environment Agency); and where proposed development or a change of use to a more vulnerable class may be subject to other sources of flooding".

ENVIRONMENTAL ASPECTS

Landfill

The database of the Environment Agency of active and historic landfills is searched for all sites. Sometimes additional historic landfill data is available from the British Geological Society and local authorities to identify nearby landfill sites. It should be noted that landfill sites that closed prior to 1974 and unlicensed disposal activities will not necessarily be revealed by this search.

Pollution Incidents

The Environment Agency ceased recording 'Pollution Incidents to Controlled Waters' in 2000, when they commenced the replacement 'Substantiated Pollution Incident Register'. BRD do not consider any 'Category 3 – Minor Incident' on the 'Pollution Incidents to Controlled Waters' database as relevant to assessing the site due to the time elapsed and the low level of impact that occurred. Again due to the time elapsed and the fact that remedial measures would have been undertaken at the time, 'Category 1 – Major Incident' and 'Category 2 – Significant Incident' are only considered relevant if the impacted controlled water was on or immediately adjacent to the site.

On the 'Substantiated Pollution Incident Register', BRD approach to this information in the following manner:

- Pollution incidents impacting 'air' only are not considered relevant.
- Pollution incidents to 'water' are only considered where the surface water impacted is either on, flows through or is immediately adjacent to the site.
- Pollution incidents to 'land' are only considered where these are on or immediately adjacent to the site unless there are grounds to consider that the incident had the potential to impact groundwater that may have migrated beneath the site.
- Category 4 potential pollutant incidents are recorded, but upon investigation were found to have had no impact and accordingly are not considered relevant.

Ecologically Sensitive Land Use

The land uses that are identified as ecologically sensitive are those identified as Sites of Special Scientific Interest (SSSI), Special Areas of Conservation, Special Protection Areas, Ramsar sites, Natural Parks, Natural Nature Reserves, Marine Nature Reserves, Local Nature Reserves, Green Belt, Forest Parks, Environmentally Sensitive Areas, or Areas of Outstanding Natural Beauty.

CONTAMINATION ASSESSMENT METHODOLOGY

UK Policy

The UK Government's policy in relation to land affected by historic contamination is based on a 'suitable for use' approach. The approach recognises that the risks presented by any given level of contamination will vary greatly according to the use of the land and a wide range of other factors, such as the underlying geology of the site. Contamination risks therefore need to be assessed on a site-by-site basis. The 'suitable for use' approach limits requirements for remediation to the work necessary to prevent unacceptable risks to human health or the environment in relation to either the current use or future use of the land.

The three main drivers for contamination assessment and remediation are:

- *Voluntary action.*
- *Development as part of the planning regime.*
- *Regulatory action to mitigate unacceptable risks e.g. Part 2A of the Environmental Protection Act 1990.*

Pollutant Linkages

For a contamination risk to exist there must be a 'pollutant linkage' from the contaminant (source) via a pathway (the route from contaminant to receptor) to a receptor (the entity that could be harmed). The absence of a contaminant, pathway or receptor breaks the pollutant linkage and therefore no contamination risk exists.

Contamination is typically present at a site (in the ground and/or in the underlying groundwater) as a result of a historic or current industrial use, usually as a result of leaks, spills or disposal of residues, wastes and excess raw materials from the industrial processes. Contamination may also be present due to:

- *The deliberate application of chemicals e.g. the spraying of herbicide/pesticide.*
- *Migration of pollutants from adjacent land.*
- *Naturally occurring processes e.g. elevated concentrations of particular heavy metals associated with specific geological strata.*

Conceptual Site Model

The conceptual site model can be defined as a textual or graphical representation of the identified pollutant linkages for a given site. The model forms the basis for designing the investigation as the aim will be to target all of the potential pollutant linkages to determine, through the subsequent phases of risk assessment, whether or not they pose an actual risk.

It is important that the conceptual site model is updated with new information as the various investigation, risk assessment and remediation works are completed.

Technical Guidance

The technical and legal framework for contamination assessment is complex. The process adopted through this report for assessing contamination risks is in general accordance with the following guidance, as listed below:

- 'Investigation of Potentially Contaminated Sites - Code of Practice - BS 10175: 2011', BS, 2011.
- 'Model Procedures for the management of Land Contamination - CLR Document No. 11', Environment Agency, 2004.
- 'Guidance for the safe development of housing on land affected by contamination - R&D66: 2008', NHBC/ Environment Agency, 2008.

Risk Assessment Methodology

In line with the technical guidance, the contamination risk assessment follows a series of phased stages for each particular site:

PHASE	DESCRIPTION	RISK ASSESSMENT STAGE
PHASE 1	<i>Generally limited to desk based research and a site walkover survey to develop an initial conceptual site model and identify what risks, if any, are likely to be presented by the site.</i>	<i>Hazard Identification and Assessment</i> <i>A preliminary stage of risk assessment concerned with identifying and characterising the hazards that may be associated with a particular site and identifying potential pollutant linkages.</i>
PHASE 2	<i>This phase is concerned with establishing whether contamination is present, usually through intrusive ground investigation, and then evaluating the degree and magnitude of the associated risks.</i>	<i>Risk Estimation</i> <i>A stage concerned with estimating the likelihood that receptors will suffer adverse effects if they come into contact with, or are otherwise affected by, a hazardous substance or agent under defined conditions.</i> <i>Risk Evaluation</i> <i>A stage of risk assessment concerned with evaluating the acceptability of estimated risks, taking into account the nature and scale of the risk estimates, any uncertainties associated with the assessment and the broad costs and benefits of taking action to mitigate risks.</i>
PHASE 3	<i>The appraisal and selection of remediation techniques, their implementation and verification.</i>	<i>Risk Management</i> <i>The process whereby decisions are made to accept a known or assessed risk and/or the implementation of action to reduce the consequences or probabilities of occurrence.</i>

Risk Classification

The objective of risk assessment is to identify the nature and magnitude of the potential risks and should be based on a consideration of both:

- The likelihood/probability of an event [taking into account both the presence of the hazard and receptor and the integrity of the pathway].
- The severity of the potential consequence [taking into account both the potential severity of the hazard and the sensitivity of the receptor].

There is a need for a logical, transparent and repeatable system in defining the categories of severity of consequence and likelihood as well as for the risk itself and therefore the following risk rating matrix is employed:

		SEVERITY OF CONSEQUENCE			
		SEVERE	MEDIUM	MILD	MINOR
PROBABILITY	HIGH LIKELIHOOD	Very High Risk	High Risk	Moderate Risk	Moderate/ Low Risk
	LIKELY	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
	LOW LIKELIHOOD	Moderate Risk	Moderate/ Low Risk	Low Risk	Negligible Risk
	UNLIKELY	Moderate/ Low Risk	Low Risk	Negligible Risk	Negligible Risk

These risk classifications are defined as follows:

- **Very High Risk** - There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remediation action.
- **High Risk** - Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remediation action.
- **Moderate Risk** - It is possible that without appropriate remediation action harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
- **Low Risk** - It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst if any harm was realised any effects would be mild.
- **Negligible Risk** - The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

This preliminary risk assessment matrix and classification system is based on guidance produced by Department for Environment, Food and Rural Affairs (Defra) and the Environment Agency in connection with contaminated land assessment.

APPENDIX 1

Site Location Plan



Not to scale.

Reproduced by permission of Ordnance Survey® on behalf of
The Controller of Her Majesty's Stationery Office.

© Crown copyright. All rights reserved. Licence number WL6195.

Project Title: Land at Bilsham Road, Yapton

Client: Gleeson Developments

BRD Reference: BRD2693-OP1-B

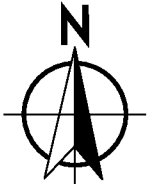
Date Issued: April 2017



01295 272244

info@brduk.com

Site Layout Plan



Key: / Site Boundary

Not to scale. Imagery & map data ©2017 Google.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP4-A
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 1: Site access off Bilsham Road.



Plate 2: Southern site area.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 3: Stream entering culvert along south eastern boundary.

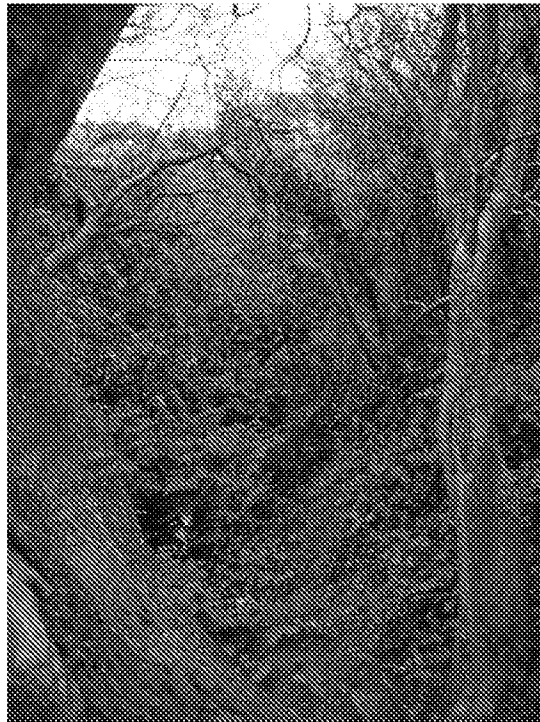


Plate 4: Stream in deep channel along south eastern boundary.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 5: Ponded area in eastern corner of southern field where stream enters site.



Plate 6: Various rubbish dumped at boundary.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 7: Northern section of southern field looking south west.



Plate 8: Area dividing the two fields with dense brambles.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 9: South east boundary of northern field.



Plate 10: Looking north east across northern field.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 11: Oak tree and ditch between north eastern and western field. Looking west towards western field.



Plate 12: Looking South across southern area.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 13: Ditch along north west boundary of southern field.



Plate 14: Ditch at western edge of southern boundary.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 15: View across site on location of culverted stream.



Plate 16: End of culvert off site to the SW.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 17: South west site boundary.



Plate 18: South east boundary adjacent to Bilsham Road.

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017



01295 272244

info@brduk.com

Site Walkover Photographs



Plate 19: View across western field, with several mature oak trees along the boundaries (additional inspection) .



Plate 20: View of the north western boundary of the western field, where a public footpath enters the field (additional inspection).

Project Title: Land at Bilsham Road, Yapton
Client: Gleeson Developments
BRD Reference: BRD2693-OP2-B
Date Issued: April 2017

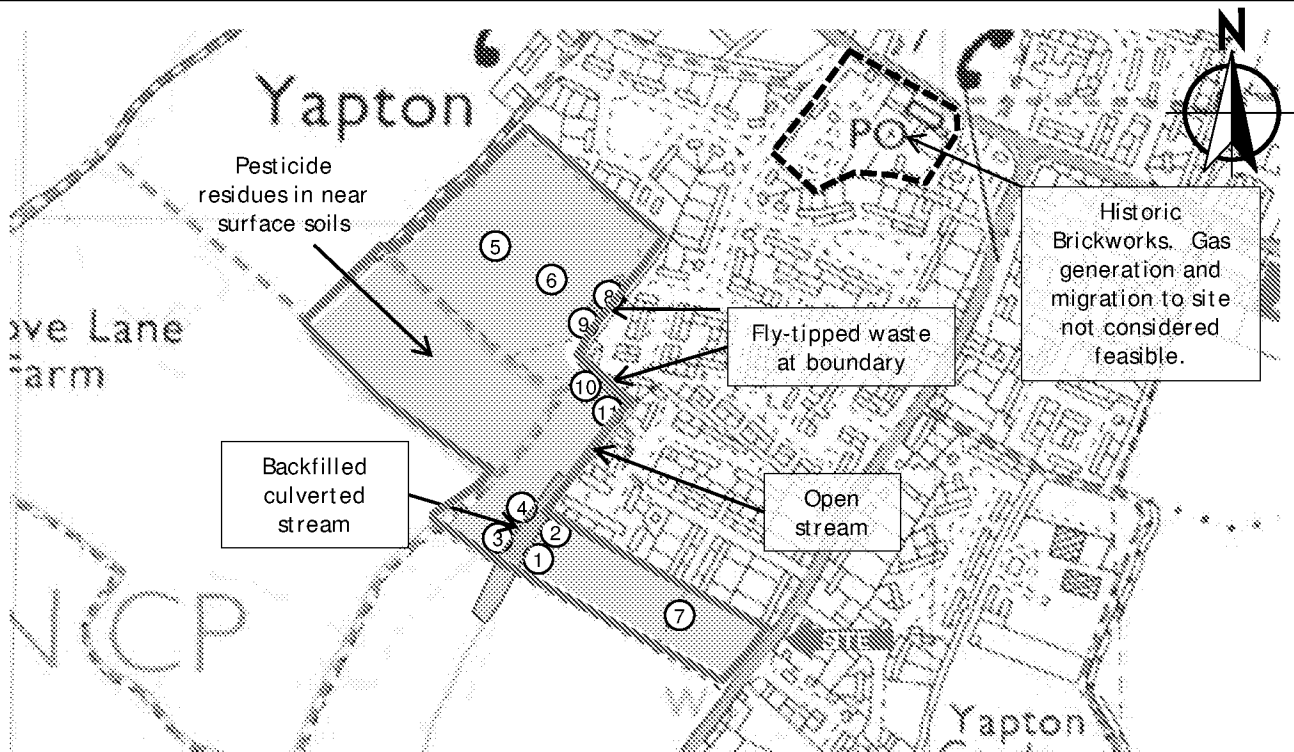
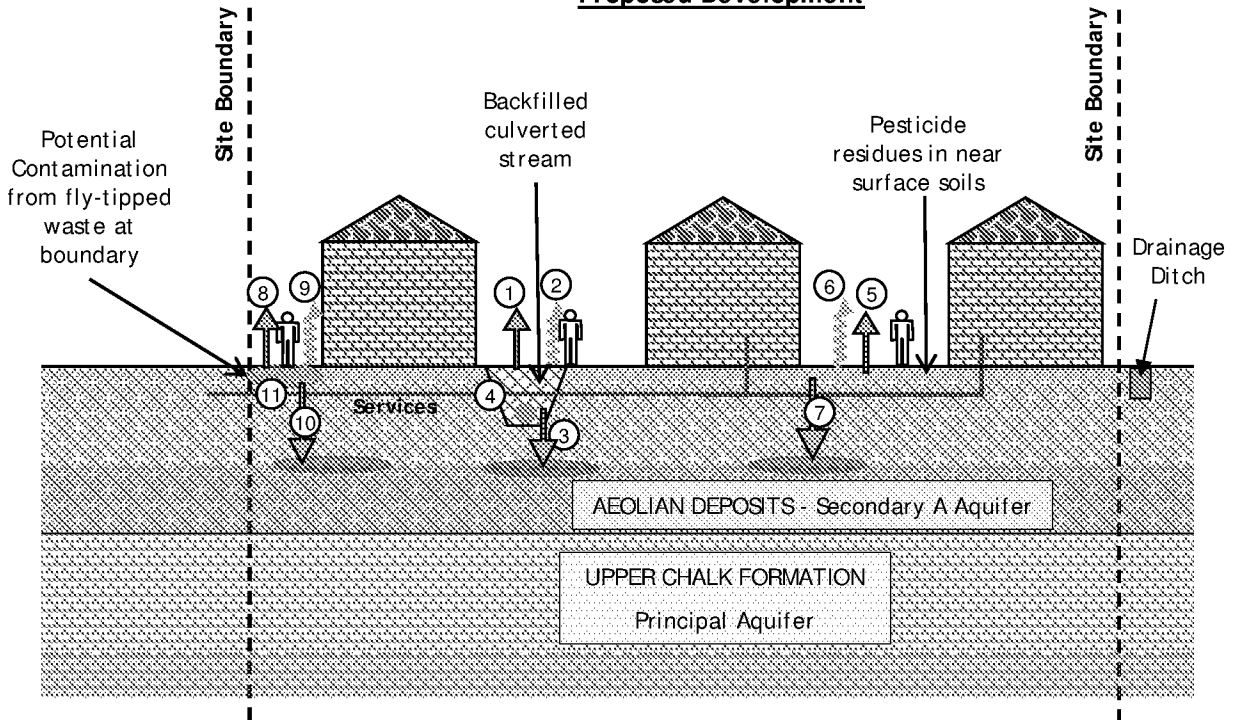


01295 272244

info@brduk.com

Initial Conceptual Model

Proposed Development



Project Title: Bilsham Road, Yapton
 Client: Gleeson Developments
 BRD Reference: BRD2693-OP3-B
 Date Issued: April 2017



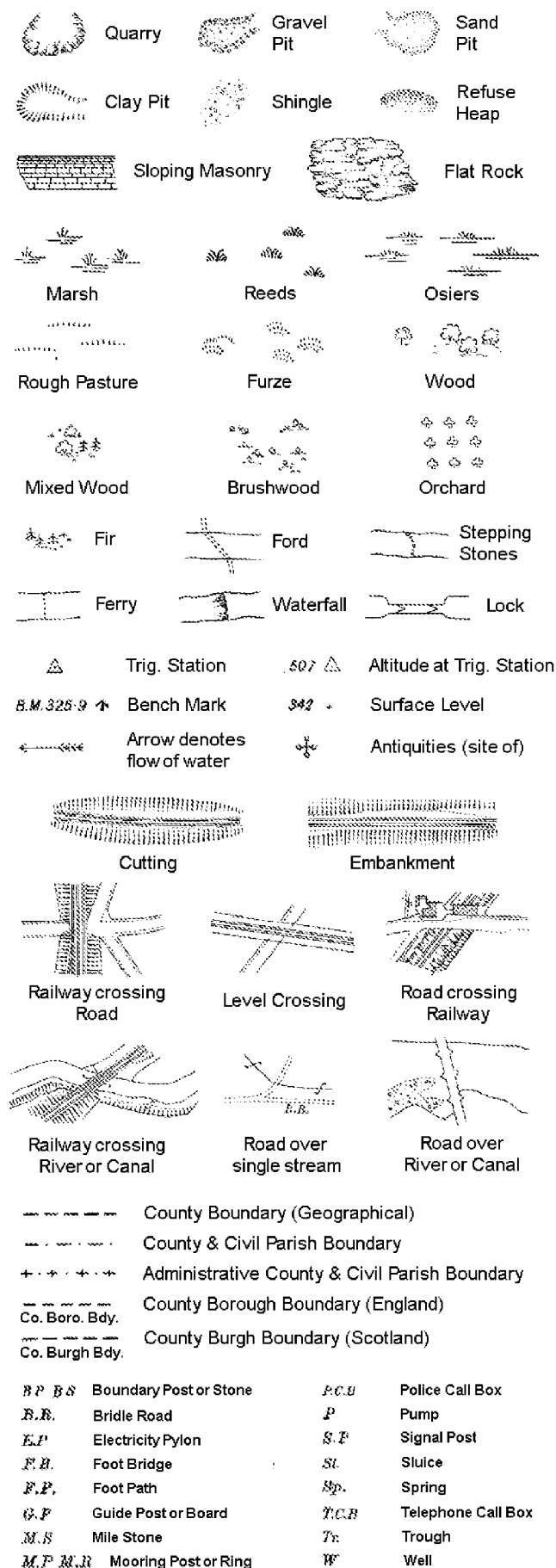
01295 272244

info@brduk.com

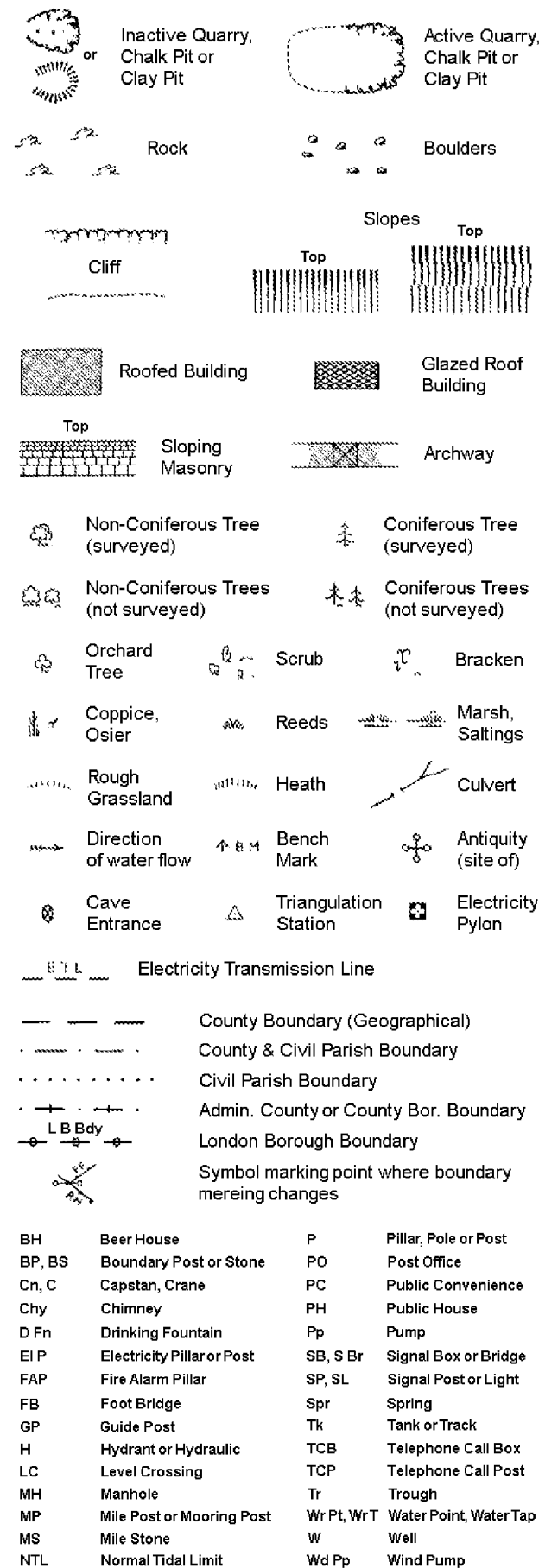
APPENDIX 2

Historical Mapping Legends

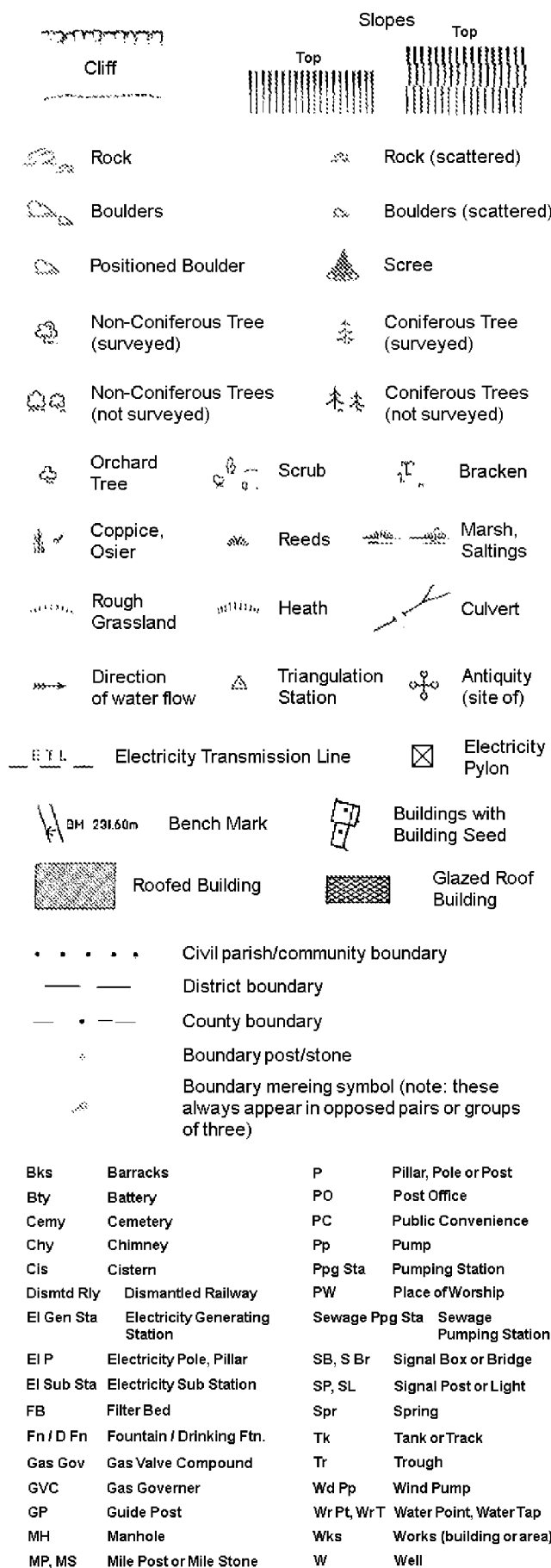
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



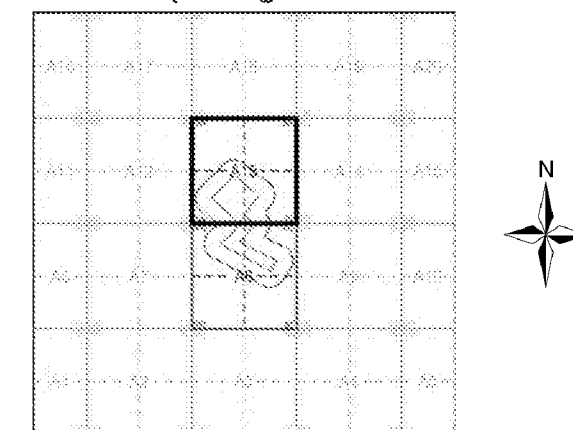
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1876 - 1877	2
Sussex	1:2,500	1897 - 1898	3
Sussex	1:2,500	1912	4
Sussex	1:2,500	1937 - 1940	5
Ordnance Survey Plan	1:2,500	1975	6
Additional SIMs	1:2,500	1978 - 1982	7
Additional SIMs	1:2,500	1988 - 1989	8
Additional SIMs	1:2,500	1989	9
Additional SIMs	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12

Historical Map - Segment A13

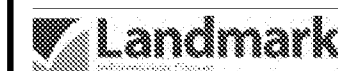


Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



Sussex

Published 1876 - 1877

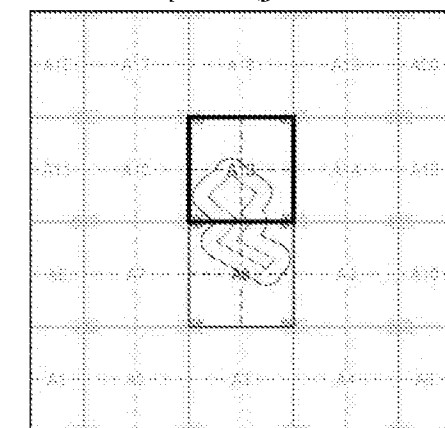
Source map scale - 1:2,500

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)

062_11 1877 1:2,500	062_12 1876 1:2,500
062_15 1876 1:2,500	062_16 1876 1:2,500

Historical Map - Segment A13

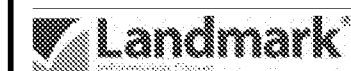


Order Details

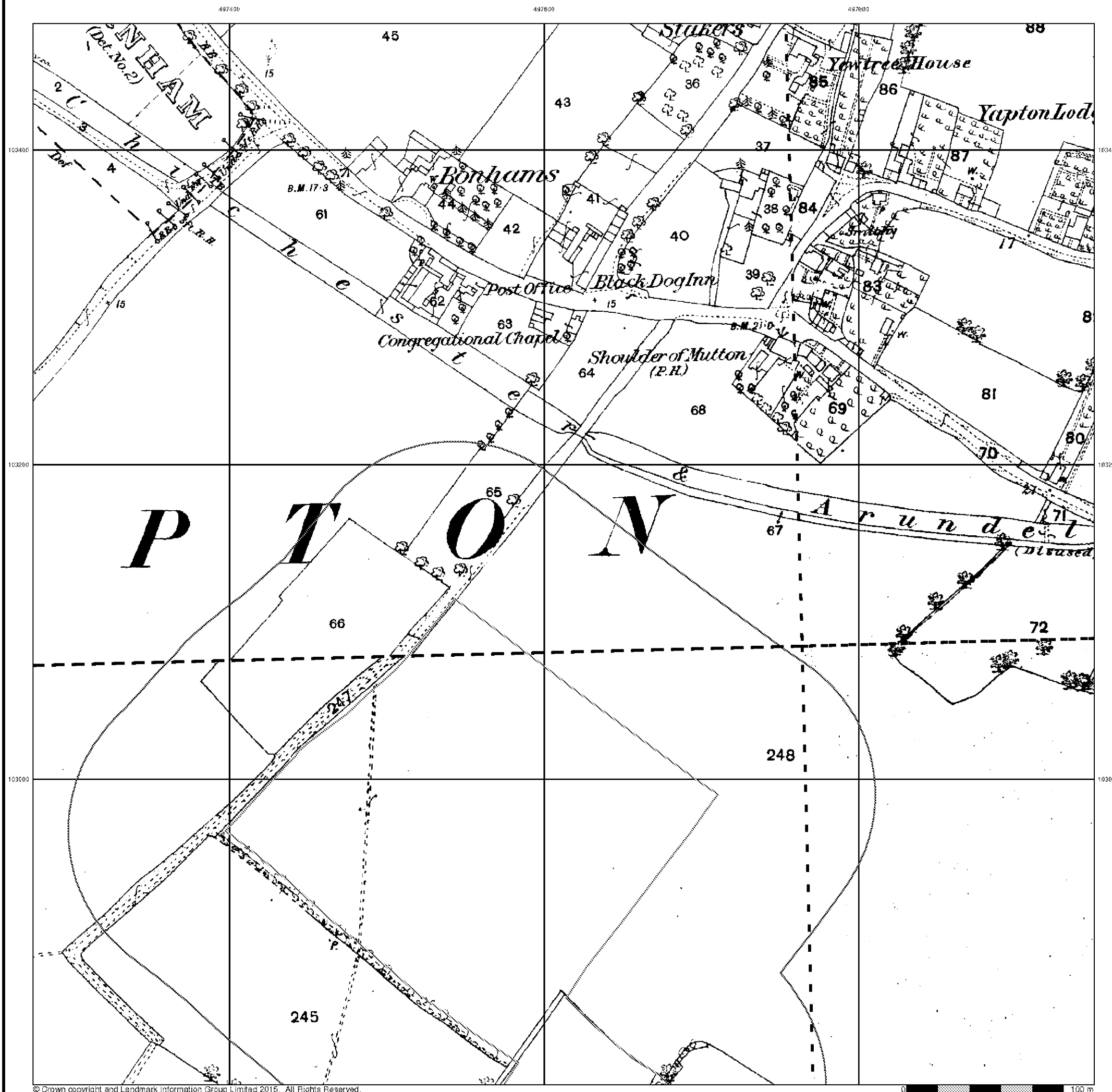
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Sussex

Published 1897 - 1898

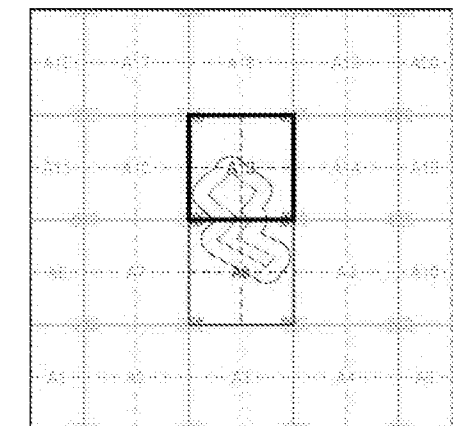
Source map scale - 1:2,500

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)

062_11 1897 1:2,500	062_12 1897 1:2,500
062_15 1898 1:2,500	062_16 1898 1:2,500

Historical Map - Segment A13



Order Details

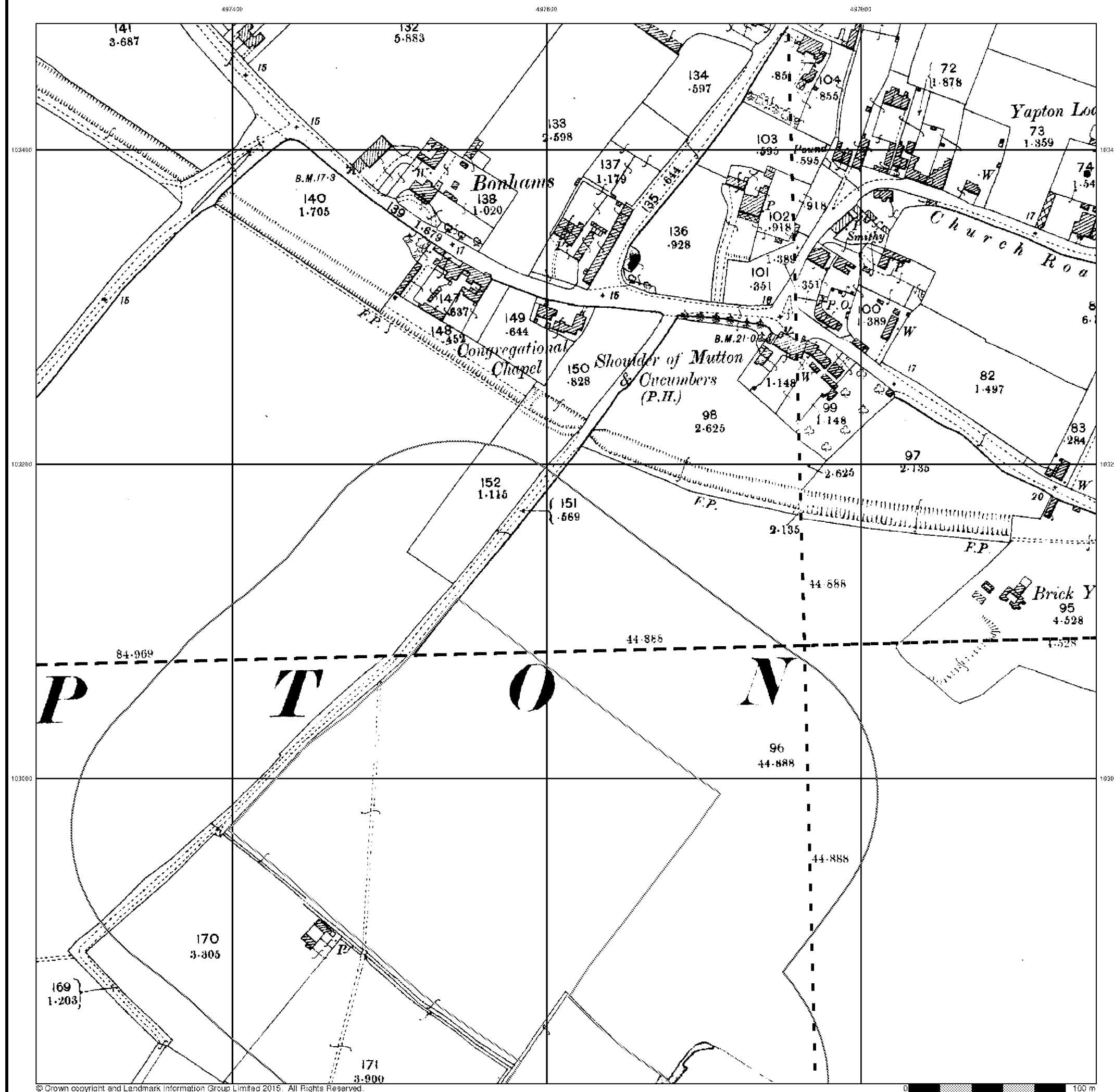
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Sussex

Published 1912

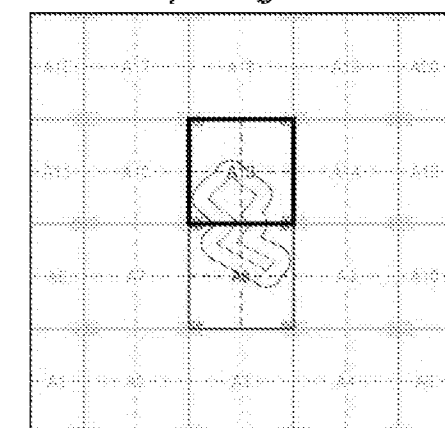
Source map scale - 1:2,500

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)

062_11 1912 1:2,500	062_12 1912 1:2,500
062_15 1912 1:2,500	062_16 1912 1:2,500

Historical Map - Segment A13



Order Details

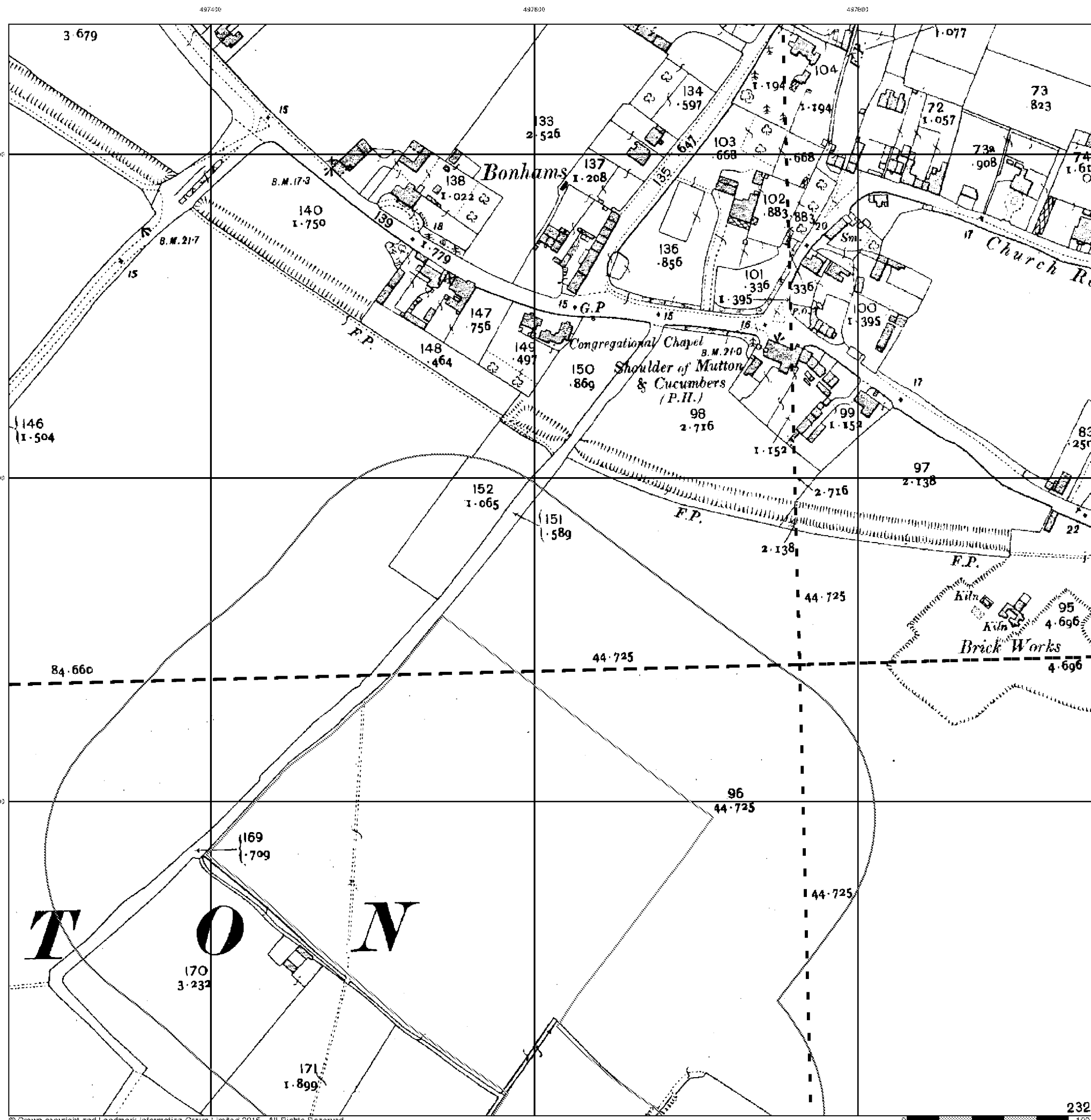
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Sussex

Published 1937 - 1940

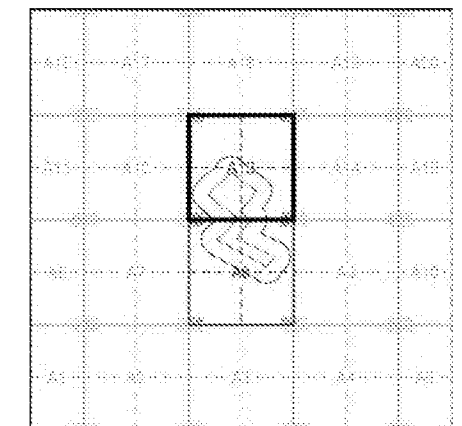
Source map scale - 1:2,500

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)

062_11 1938 1:2,500	062_12 1938 1:2,500
062_15 1940 1:2,500	062_16 1937 1:2,500

Historical Map - Segment A13



Order Details

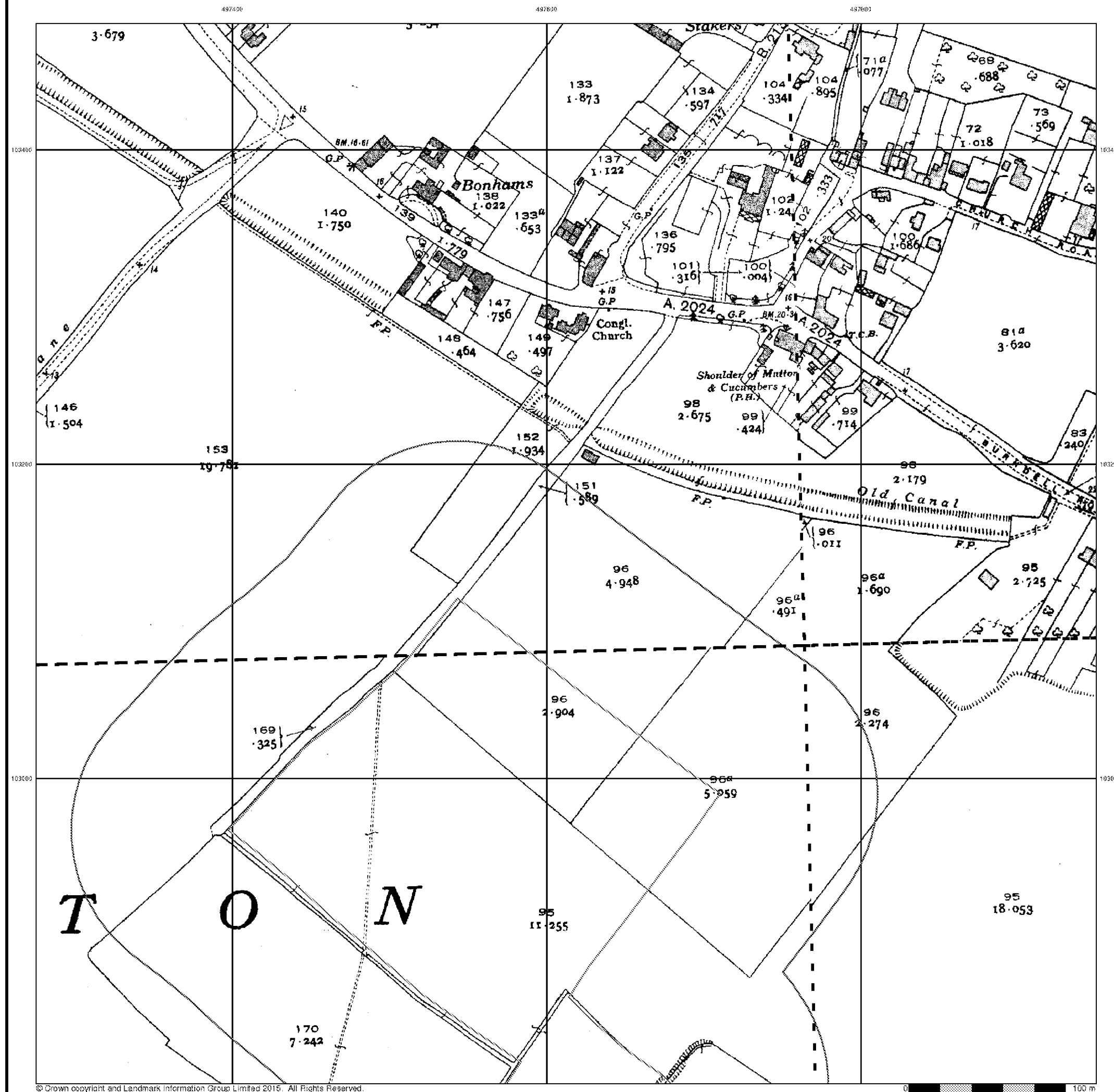
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Ordnance Survey Plan

Published 1975

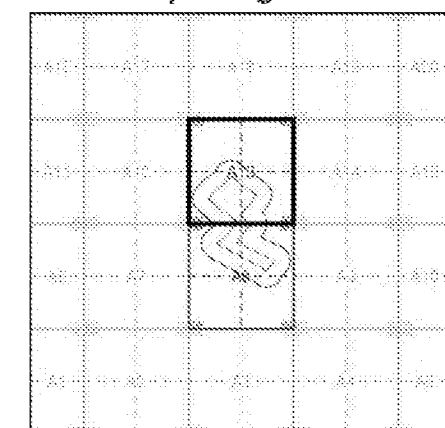
Source map scale - 1:2,500

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)

SU9703
1975
1:2,500
SU9702
1975
1:2,500

Historical Map - Segment A13



Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Additional SIMs

Published 1978 - 1982

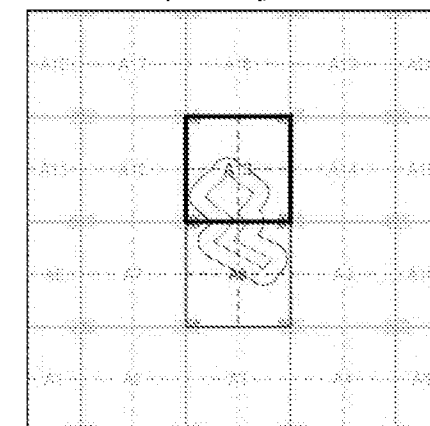
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU9703	1982	1:2,500
SU9702	1978	1:2,500

Historical Map - Segment A13

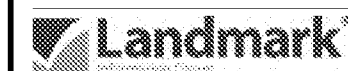


Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Additional SIMs

Published 1988 - 1989

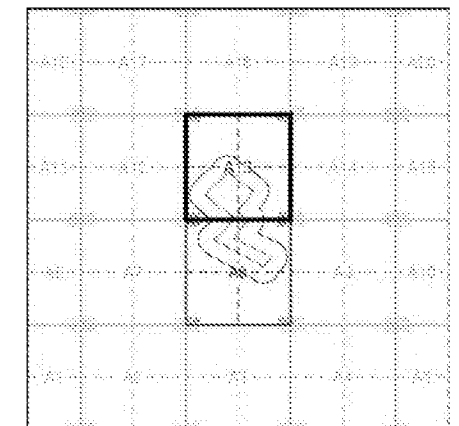
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU9703	1988	1:2,500
SU9702	1988	1:2,500

Historical Map - Segment A13



Order Details

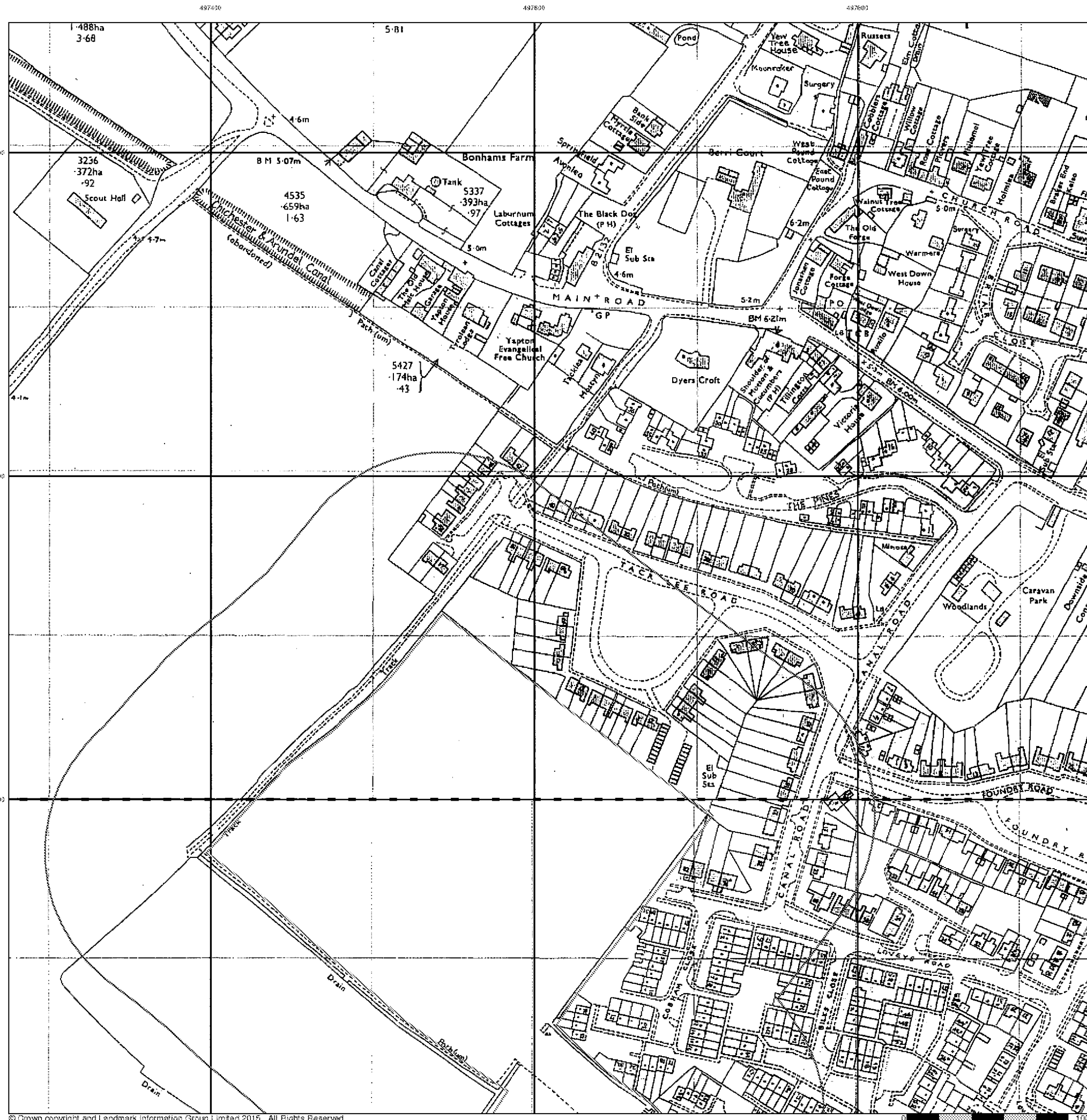
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





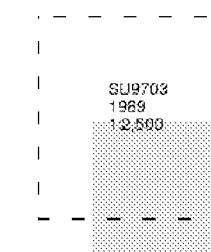
Additional SIMs

Published 1989

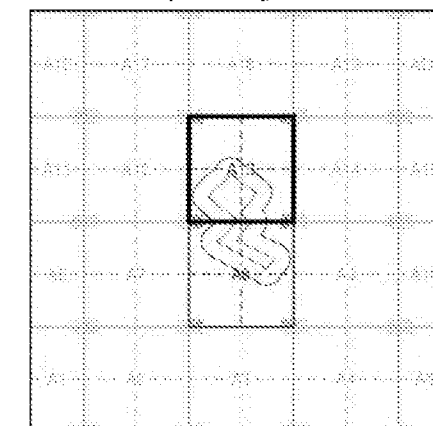
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





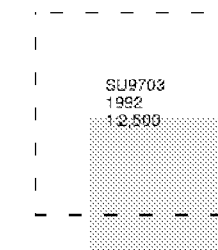
Additional SIMs

Published 1992

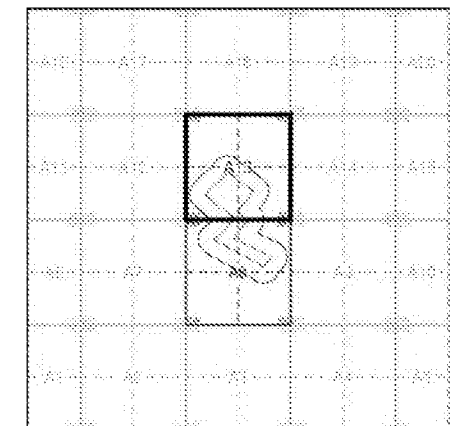
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

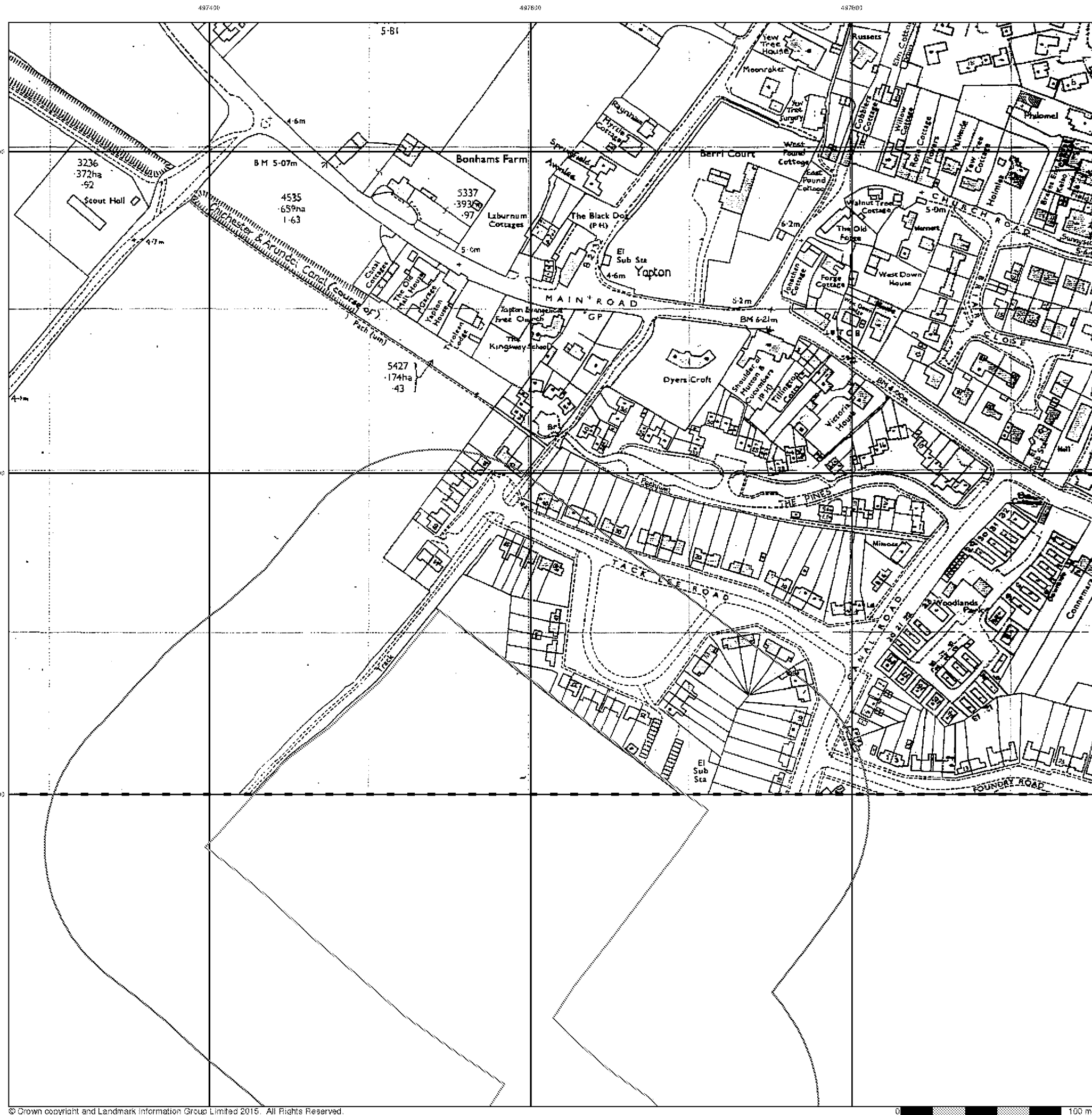
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Large-Scale National Grid Data

Published 1994

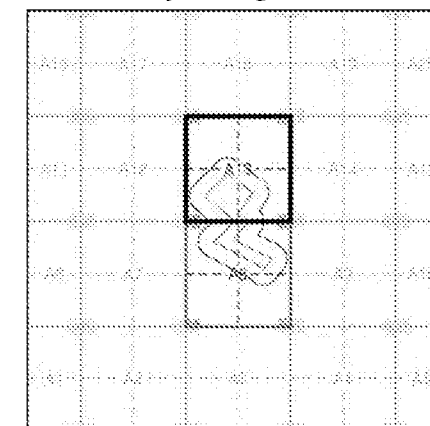
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU9703	1994	1:2,500
SU9702	1994	1:2,500

Historical Map - Segment A13

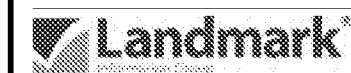


Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





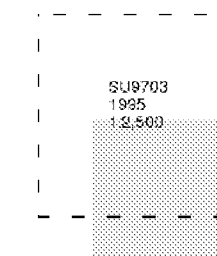
Large-Scale National Grid Data

Published 1995

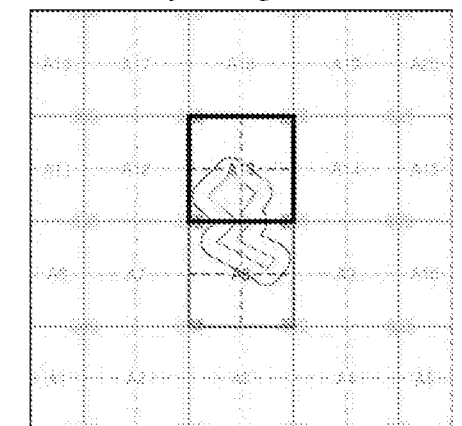
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84657229_1_1
Customer Ref:	BRD2693
National Grid Reference:	497620, 102800
Slice:	A
Site Area (Ha):	8.6
Search Buffer (m):	100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

Historical Mapping Legends

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

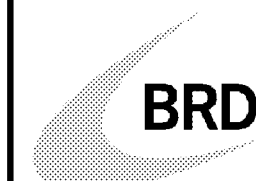
	Quarry		Gravel Pit		Sand Pit
	Clay Pit		Shingle		Refuse Heap
	Sloping Masonry		Flat Rock		
	Marsh		Reeds		Osiers
	Rough Pasture		Furze		Wood
	Mixed Wood		Brushwood		Orchard
	Fir		Ford		Stepping Stones
	Ferry		Waterfall		Lock
	Trig. Station		Altitude at Trig. Station		
	B.M. 325.9		Bench Mark		Surface Level
	Arrow denotes flow of water		Antiquities (site of)		
	Cutting		Embankment		
	Railway crossing Road		Level Crossing		Road crossing Railway
	Railway crossing River or Canal		Road over single stream		Road over River or Canal
	County Boundary (Geographical)		County & Civil Parish Boundary		Administrative County & Civil Parish Boundary
	County Borough Boundary (England)		County Borough Boundary (Scotland)		
	Co. Boro. Bdy.		Co. Burgh Bdy.		
	Boundary Post or Stone		Police Call Box		
	Bridle Road		Pump		
	Electricity Pylon		Signal Post		
	Foot Bridge		Sluice		
	Foot Path		Spring		
	Guide Post or Board		Telephone Call Box		
	Mile Stone		Trough		
	Mooring Post or Ring		Well		

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

	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
	Rock		Boulders
	Cliff		Slopes
	Roofed Building		Glazed Roof Building
	Sloping Masonry		Archway
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Bench Mark
	Cave Entrance		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	County Boundary (Geographical)		County & Civil Parish Boundary
	County Boundary		Boundary post/stone
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Beer House		Pillar, Pole or Post
	Boundary Post or Stone		Post Office
	Capstan, Crane		Public Convenience
	Chimney		Public House
	Drinking Fountain		Pump
	Electricity Pillar or Post		Signal Box or Bridge
	Fire Alarm Pillar		Signal Post or Light
	Foot Bridge		Spring
	Guide Post		Tank or Track
	Hydrant or Hydraulic		Telephone Call Box
	Level Crossing		Telephone Call Post
	Manhole		Trough
	Mile Post or Mooring Post		Water Point, Water Tap
	Mile Stone		Well
	Normal Tidal Limit		Wind Pump

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

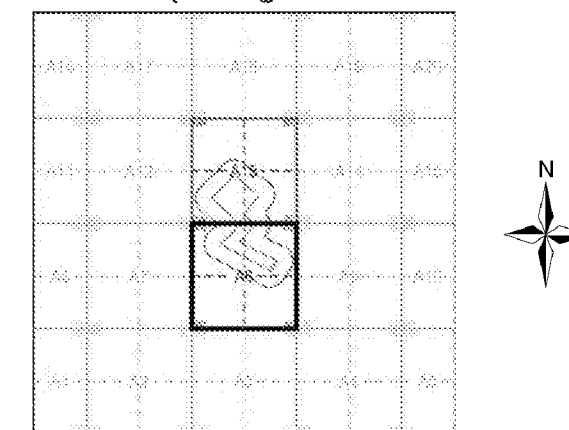
	Cliff		Slopes
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	Bench Mark		Buildings with Building Seed
	Roofed Building		Glazed Roof Building
	Civil parish/community boundary		
	District boundary		
	County boundary		
	Boundary post/stone		
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Barracks		Pillar, Pole or Post
	Battery		Post Office
	Cemetery		Public Convenience
	Chimney		Pump
	Cistern		Pumping Station
	Dismantled Railway		Place of Worship
	Electricity Generating Station		Sewage Pumping Station
	Electricity Pole, Pillar		Signal Box or Bridge
	Electricity Sub Station		Signal Post or Light
	Filter Bed		Spring
	Fountain / Drinking Ftn.		Tank or Track
	Gas Valve Compound		Trough
	Gas Governor		Wind Pump
	Guide Post		Water Point, Water Tap
	Manhole		Works (building or area)
	Mile Post or Mile Stone		Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1876	2
Sussex	1:2,500	1898	3
Sussex	1:2,500	1912	4
Sussex	1:2,500	1937 - 1940	5
Ordnance Survey Plan	1:2,500	1975	6
Additional SIMs	1:2,500	1978	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1994	9

Historical Map - Segment A8

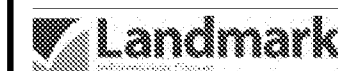


Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
 Fax: 0844 844 9951
 Web: www.envisirocheck.co.uk



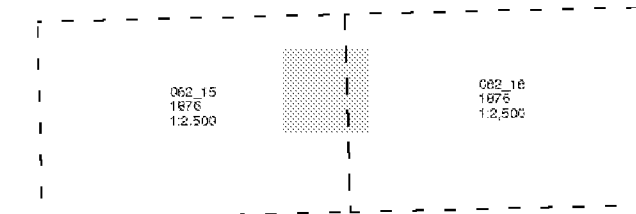
Sussex

Published 1876

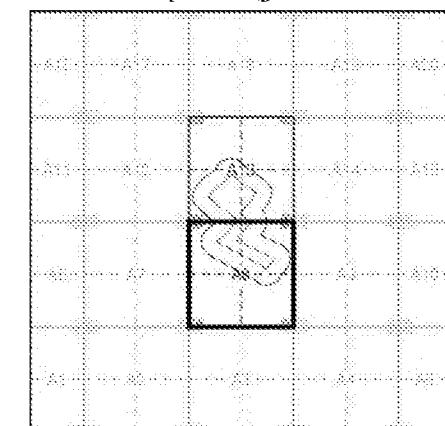
Source map scale - 1:2,500

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 A8

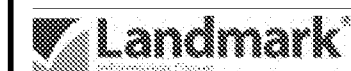


Order Details

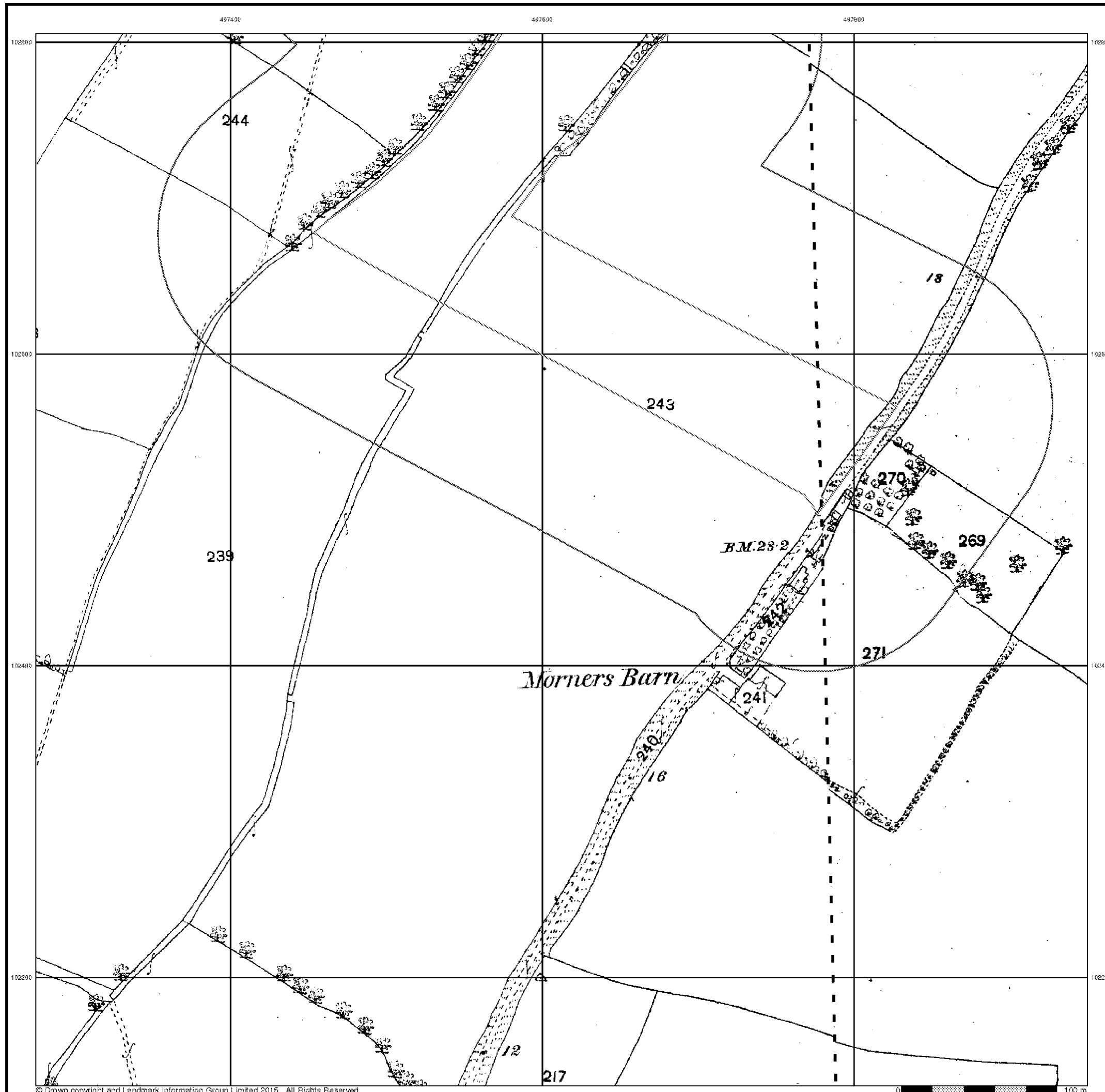
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





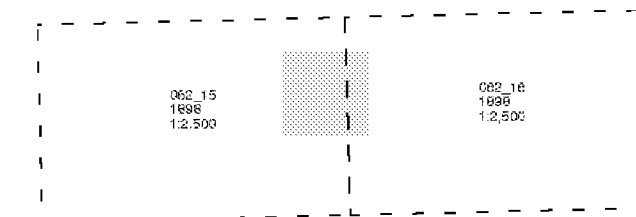
Sussex

Published 1898

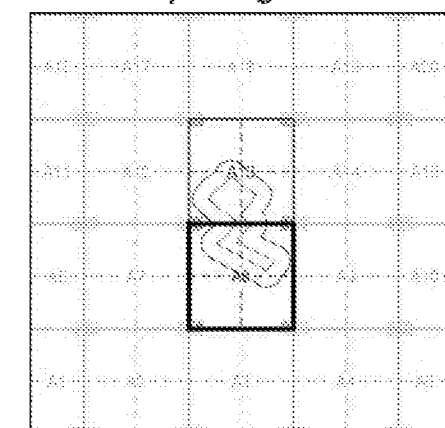
Source map scale - 1:2,500

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 A8

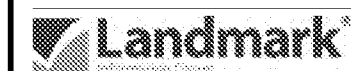


Order Details

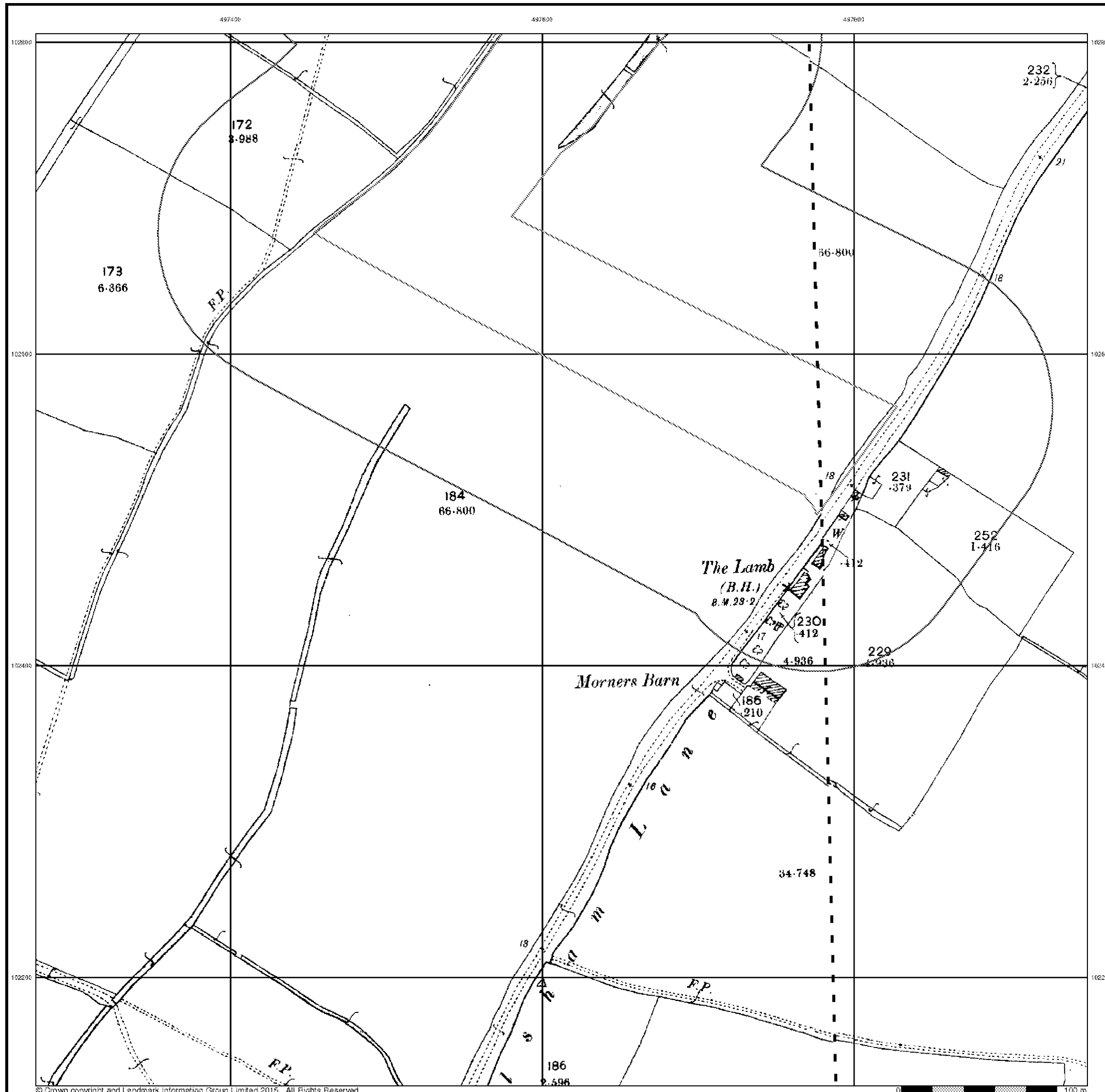
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

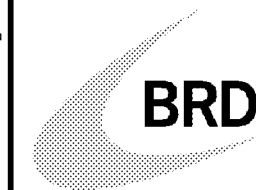
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





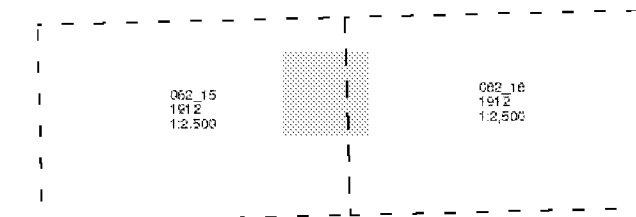
Sussex

Published 1912

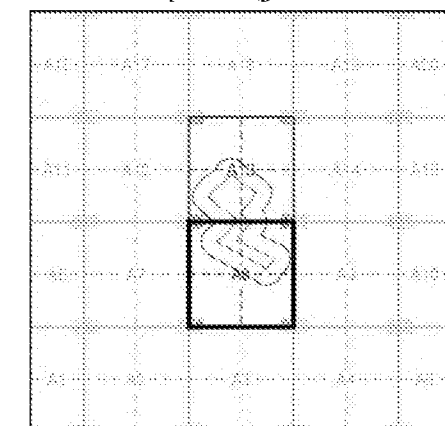
Source map scale - 1:2,500

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 A8

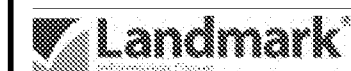


Order Details

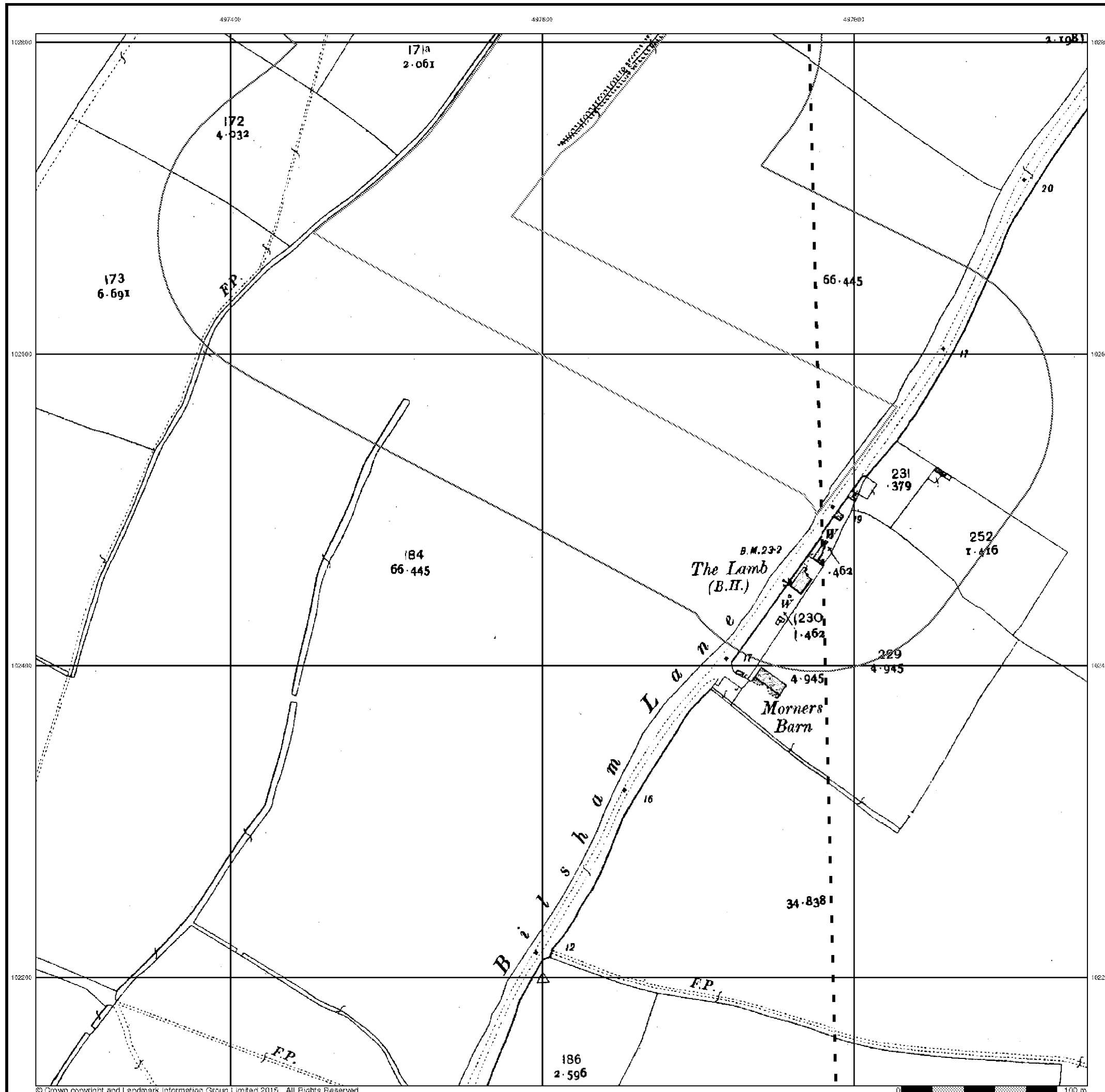
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





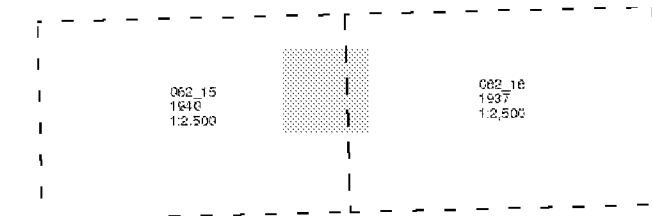
Sussex

Published 1937 - 1940

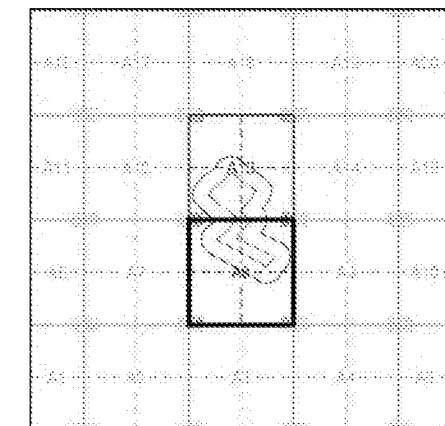
Source map scale - 1:2,500

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 A8

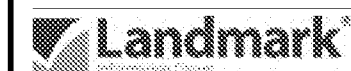


Order Details

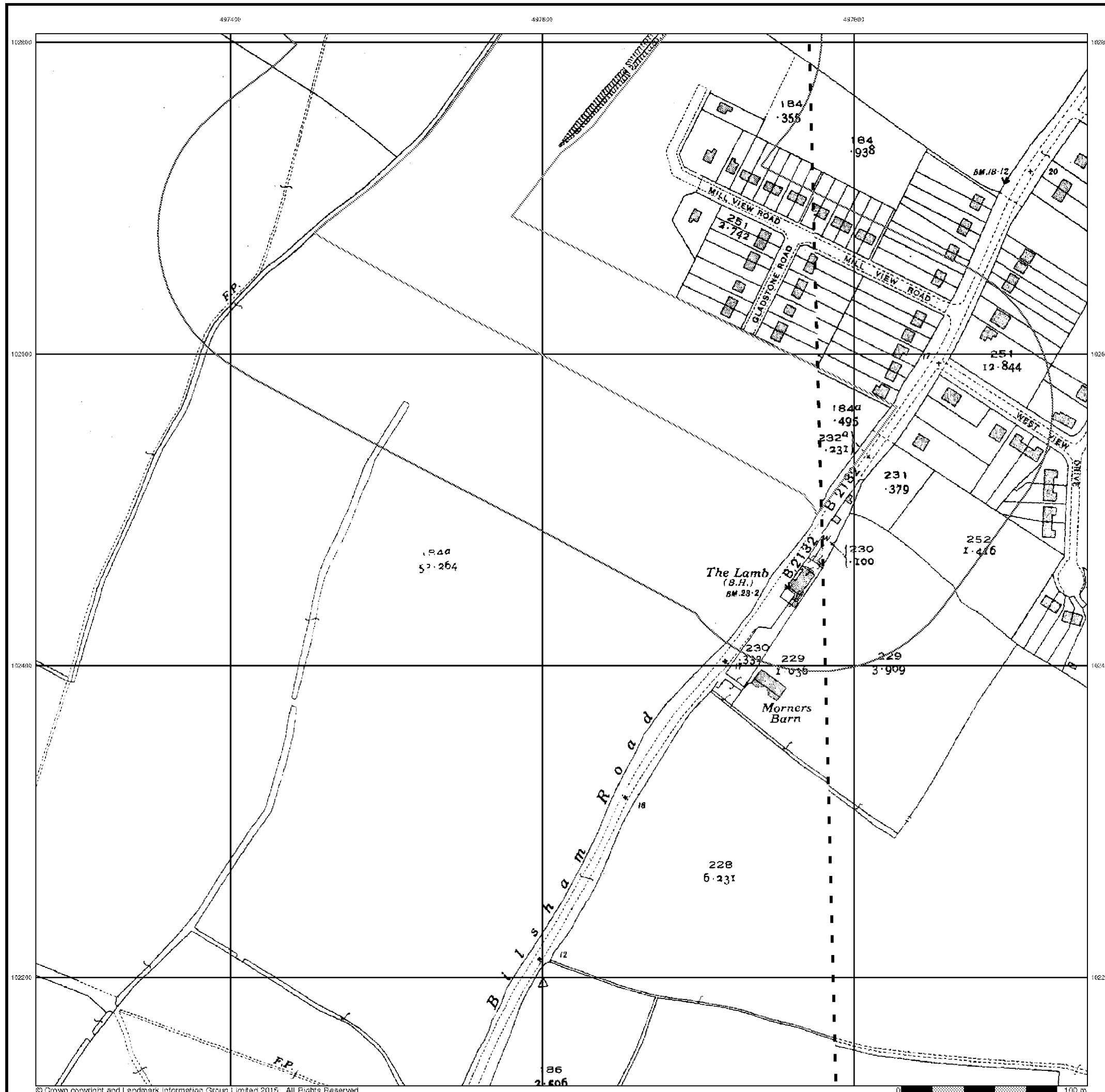
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

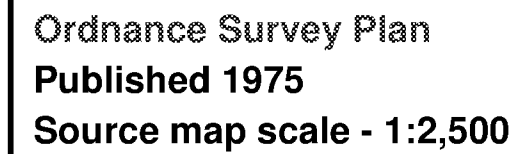
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB

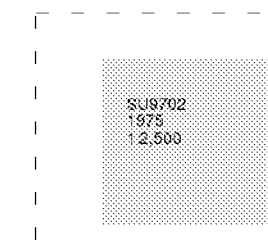


Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

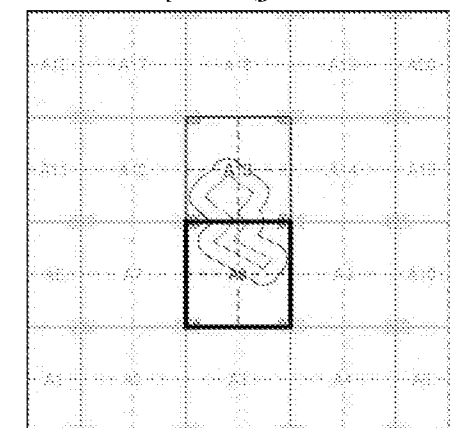




Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

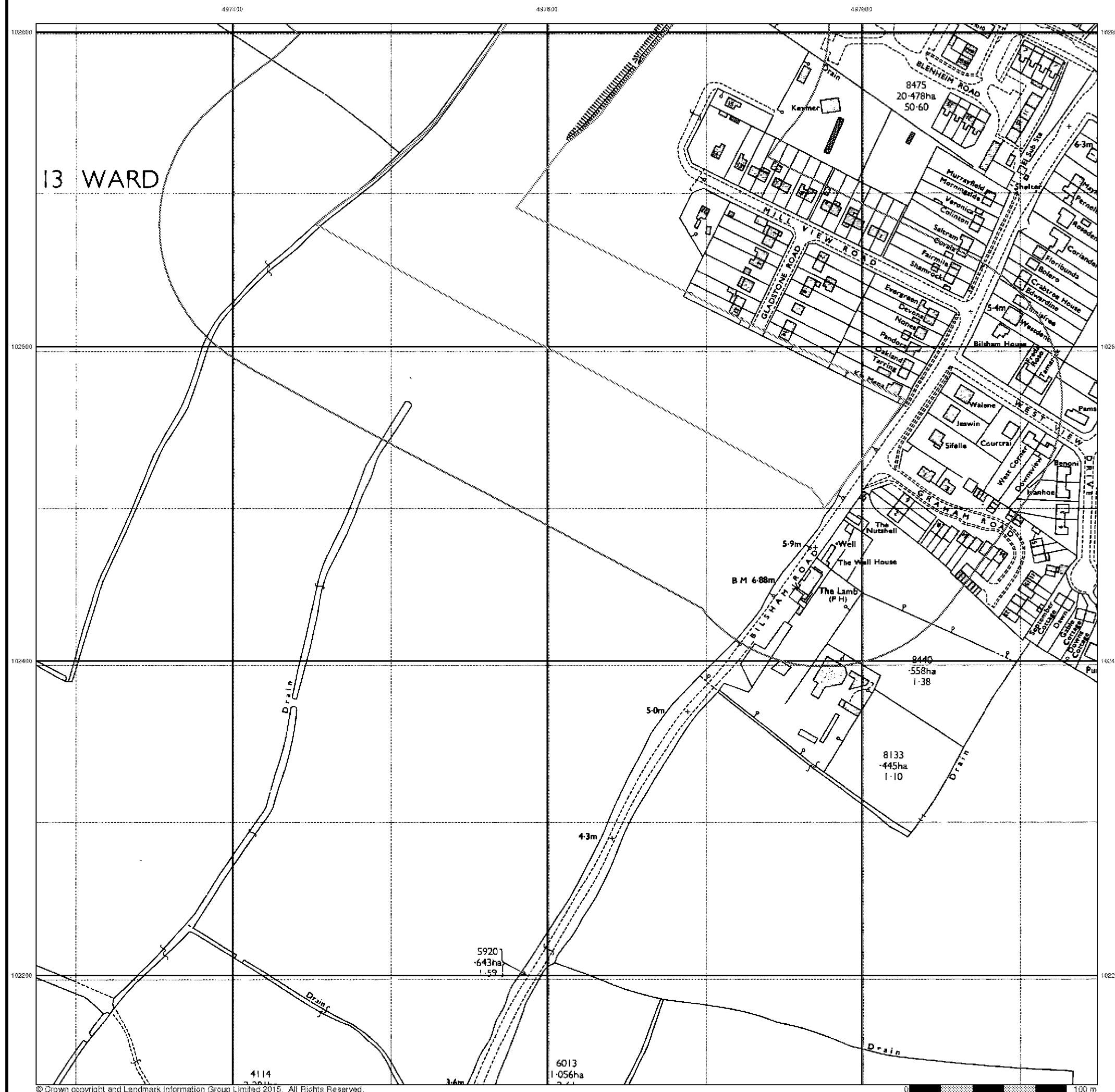
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





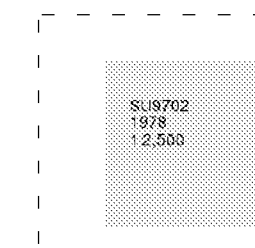
Additional SIMs

Published 1978

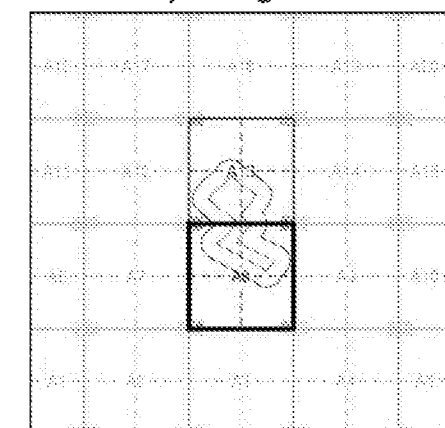
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8

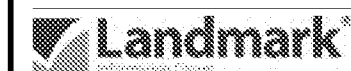


Order Details

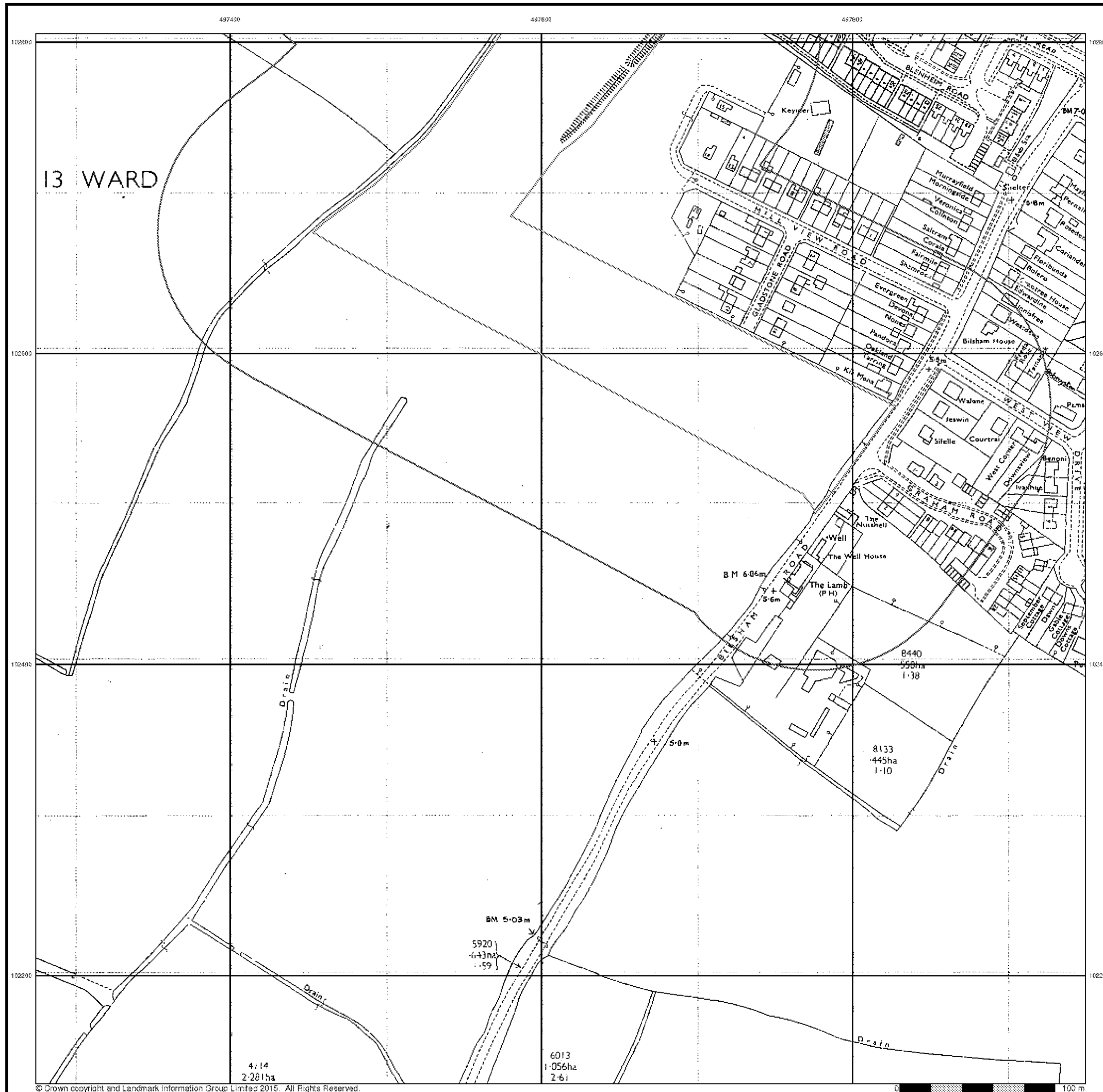
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

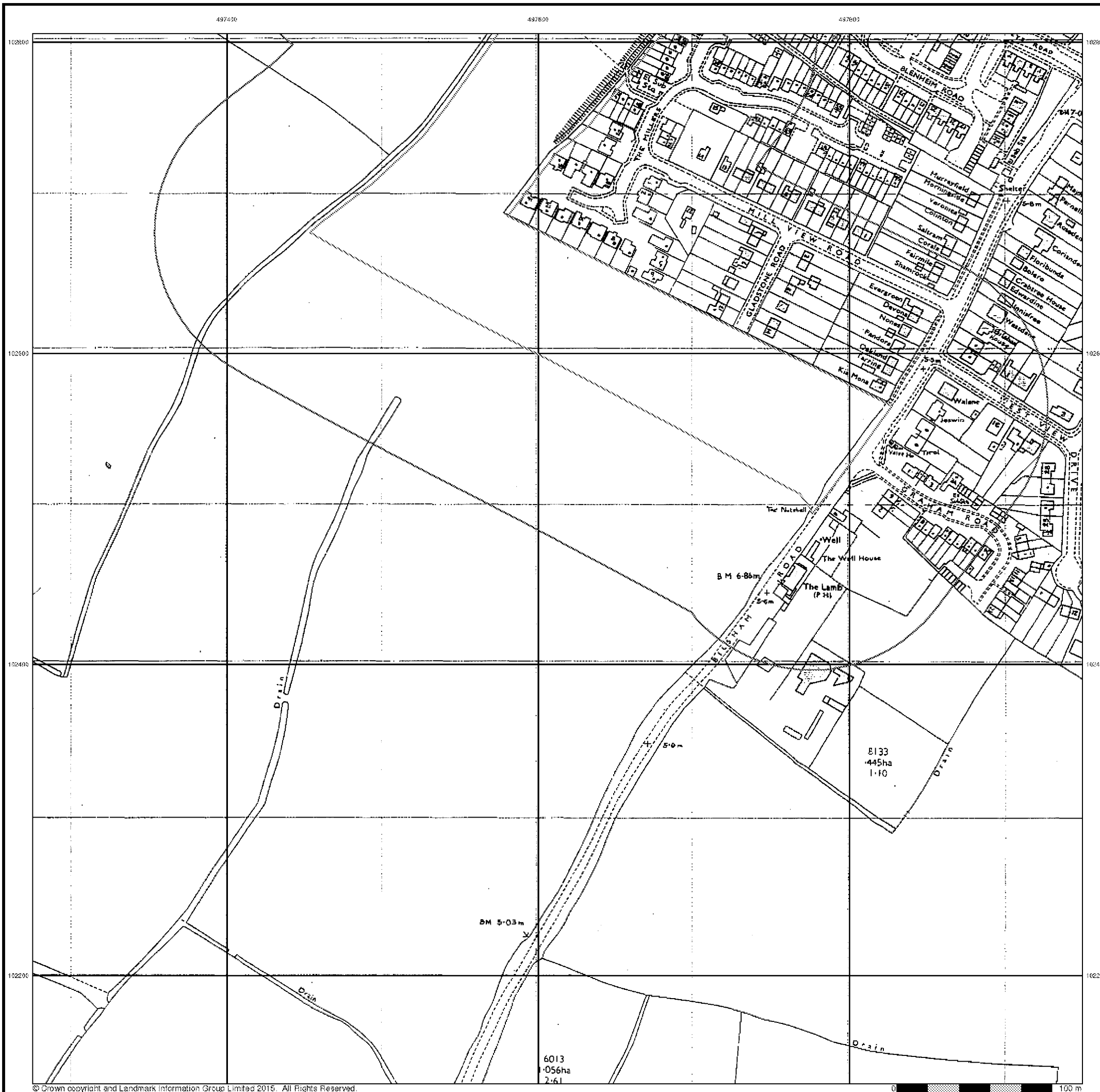
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.environcheck.co.uk





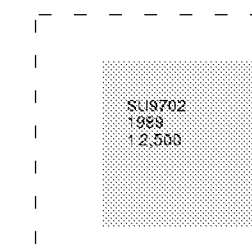
Additional SIMs

Published 1989

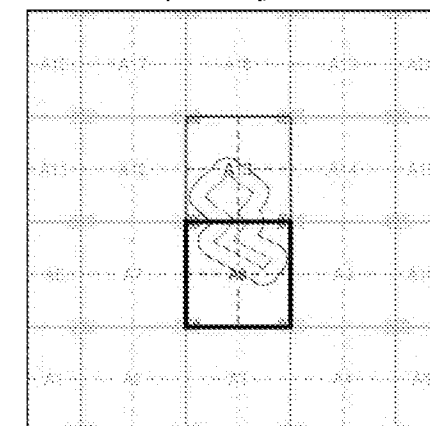
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8

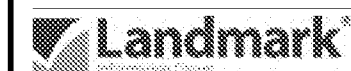


Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



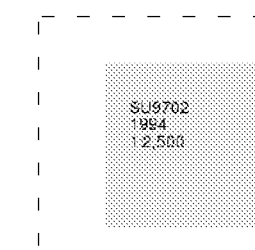
Large-Scale National Grid Data

Published 1994

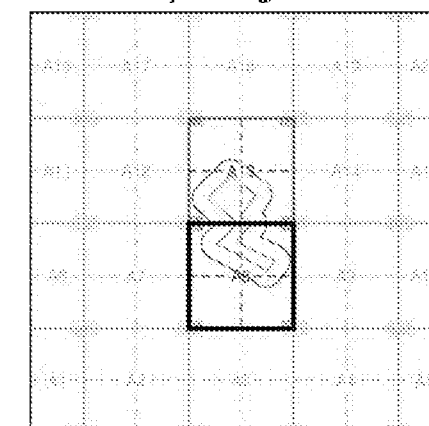
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

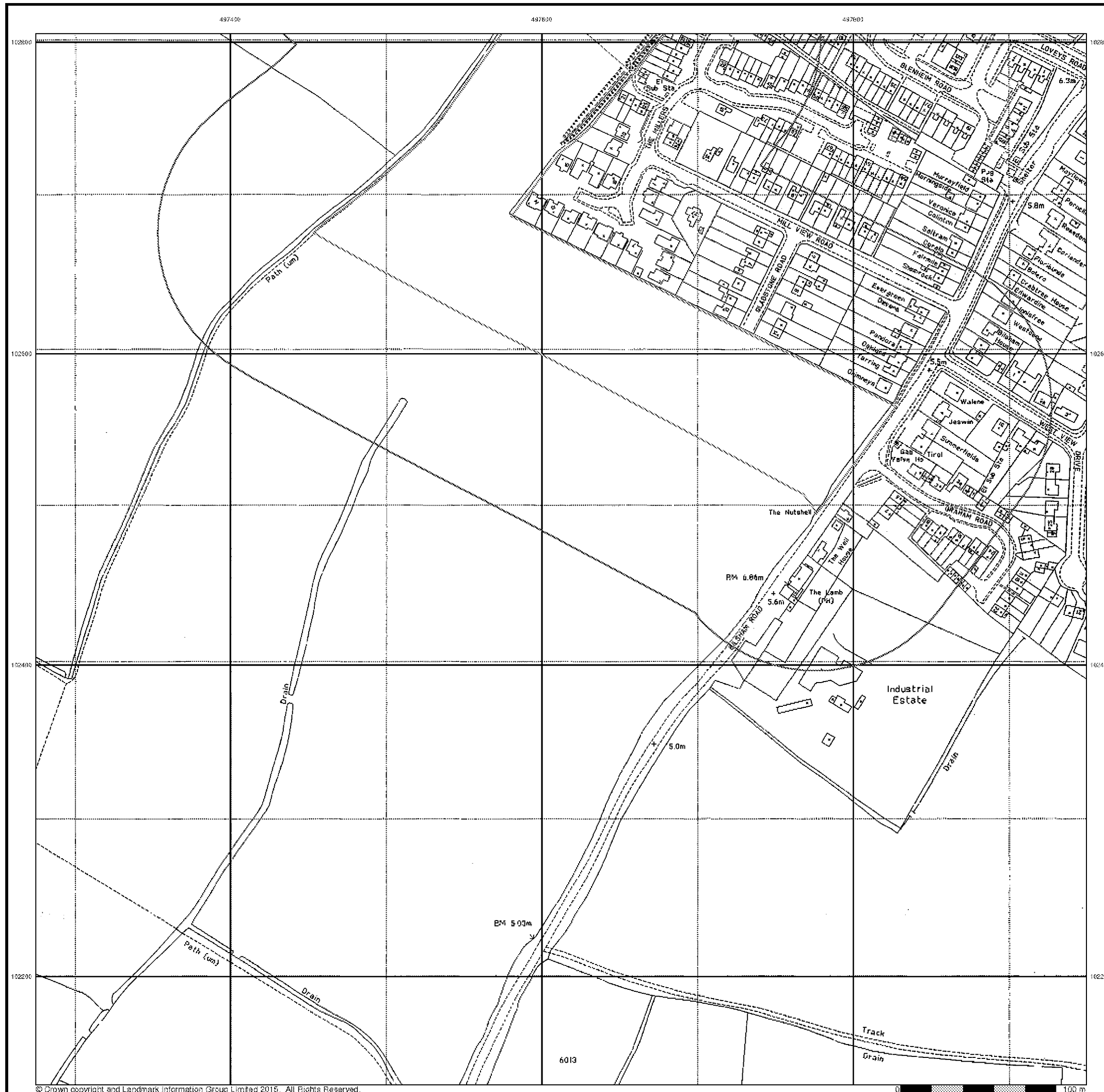
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Borough Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Borough or District Council		Borough, Borough or County Constituency
	Civil Parish		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

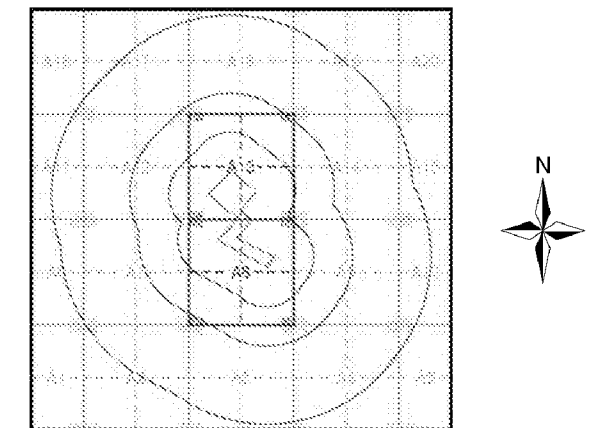
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:10,560	1879 - 1880	2
Sussex	1:10,560	1899	3
Sussex	1:10,560	1913	4
Sussex	1:10,560	1913	5
Sussex	1:10,560	1913	6
Sussex	1:10,560	1932	7
Sussex	1:10,560	1940 - 1951	8
Historical Aerial Photography	1:10,560	1947	9
Ordnance Survey Plan	1:10,000	1962	10
Ordnance Survey Plan	1:10,000	1967	11
Ordnance Survey Plan	1:10,000	1980	12
Ordnance Survey Plan	1:10,000	1992	13
Historical Aerial Photography	1:10,000	1999	14
10K Raster Mapping	1:10,000	2000	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2016	17

Historical Map - Slice A

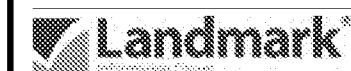


Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



Sussex

Published 1879 - 1880

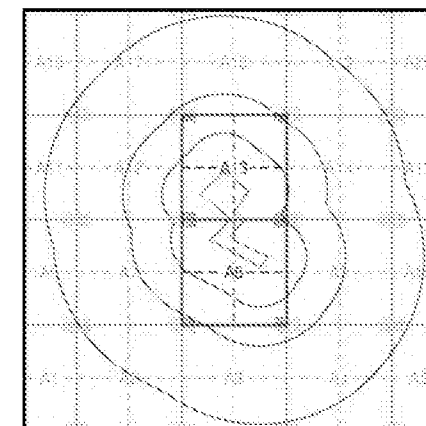
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

06200
1880
1:10,560
07400
1879
1:10,560

Historical Map - Slice A

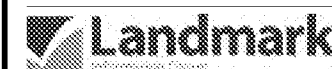


Order Details

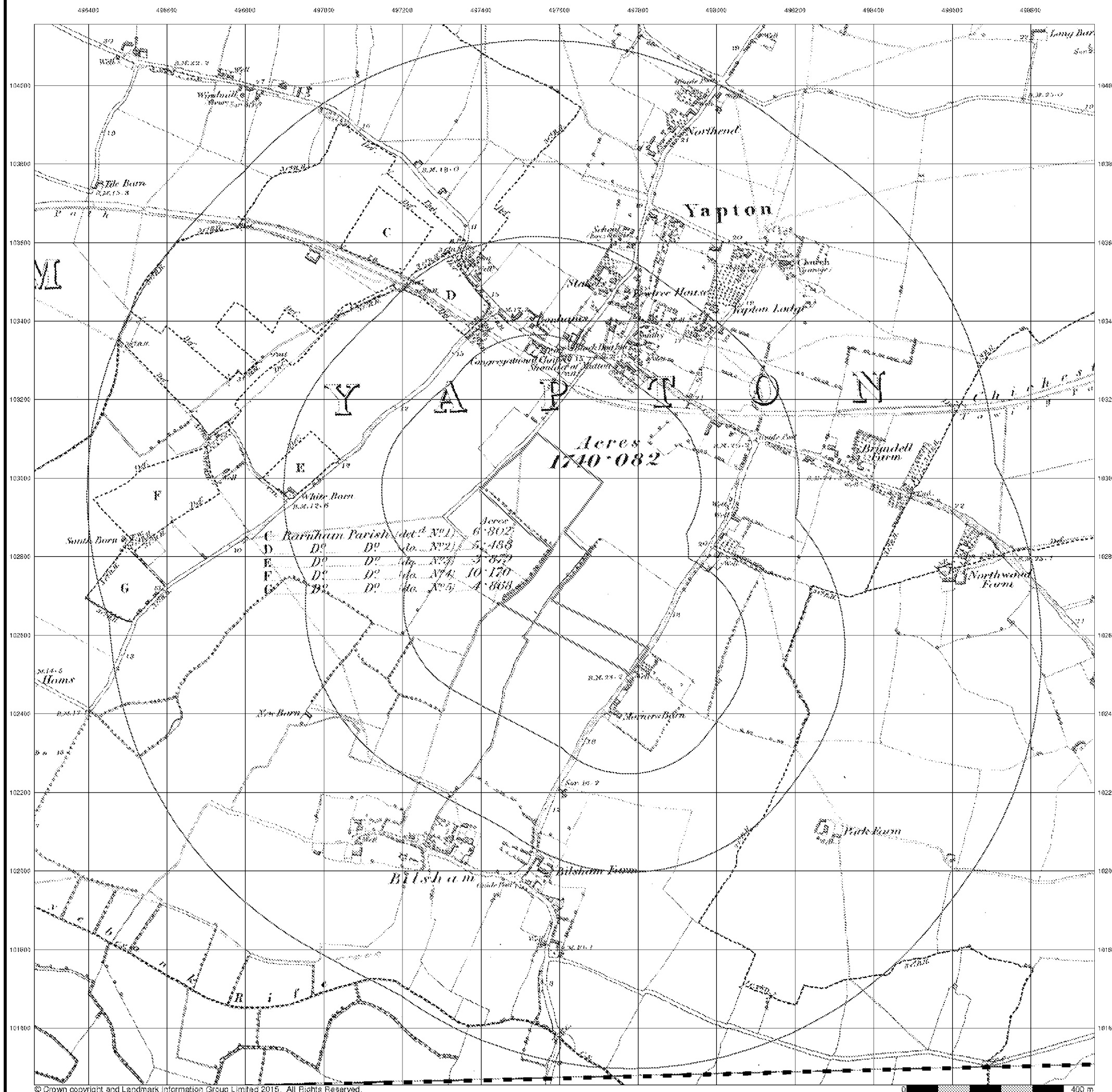
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





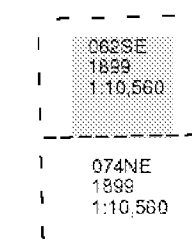
Sussex

Published 1899

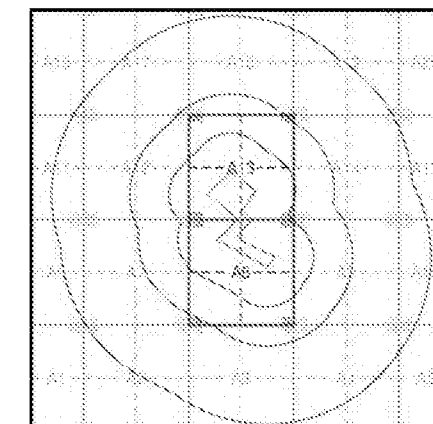
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

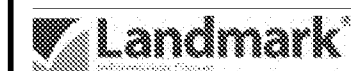


Order Details

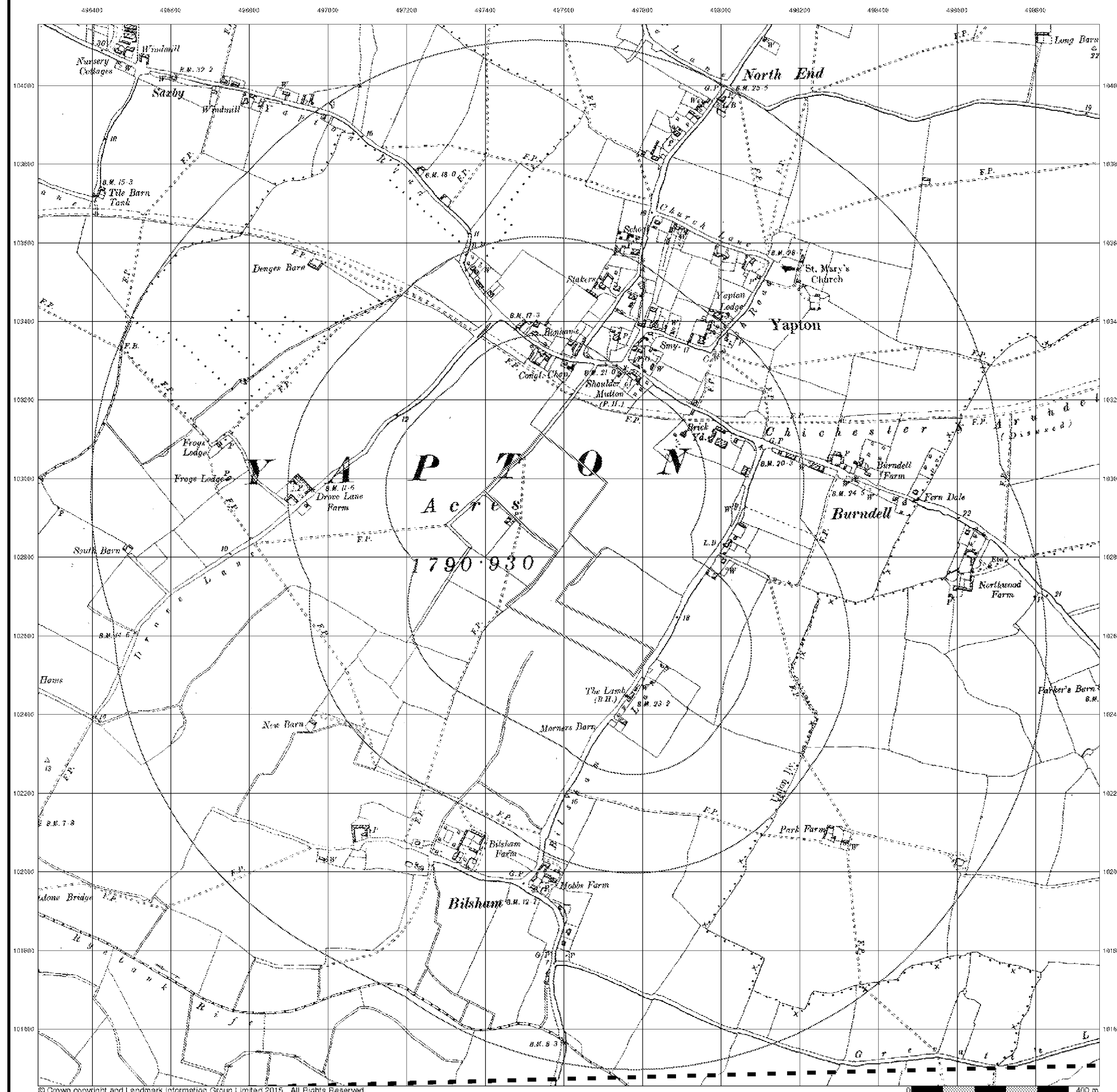
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

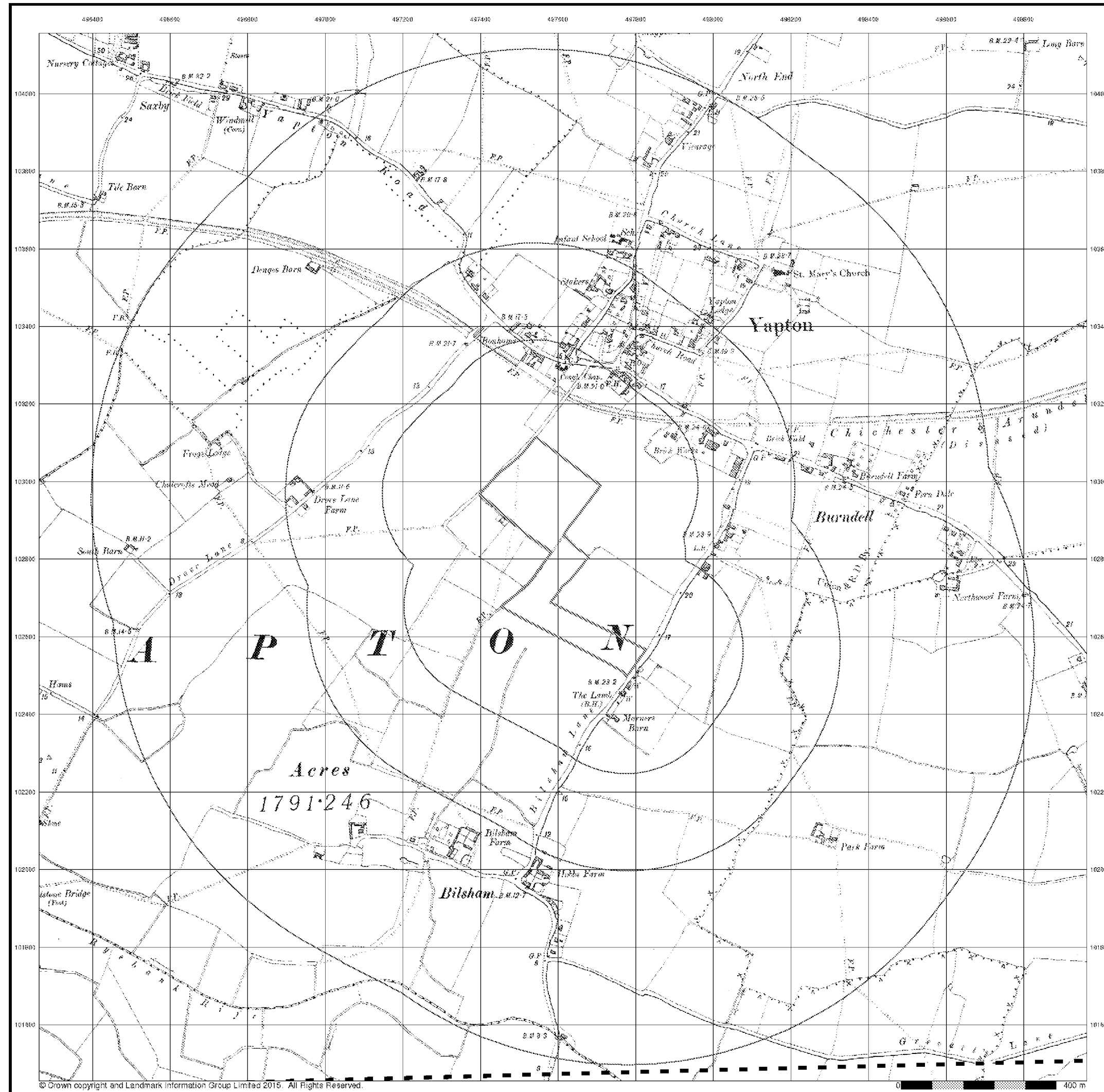
Site Details

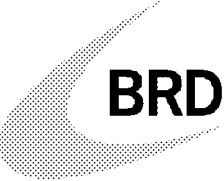
Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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







Sussex

Published 1913

Source map scale - 1:10,560

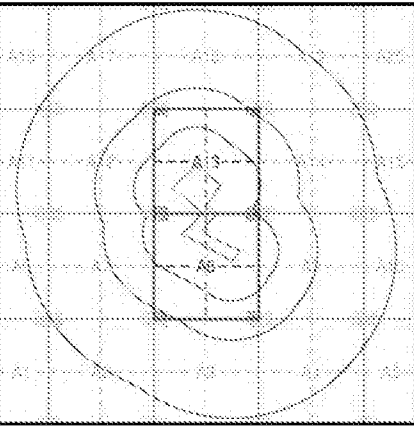
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

062SE
1913
1:10,560

074NE
1913
1:10,560

Historical Map - Slice A



Order Details

Order Number:	84657229_1_1
Customer Ref:	BRD2693
National Grid Reference:	497620, 102800
Slice:	A
Site Area (Ha):	8.6
Search Buffer (m):	1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

ARUN DISTRICT COUNCIL Y/12/22/DC

A Landmark Information Group Service v49.0 15-Apr-2016 Page 4 of 17



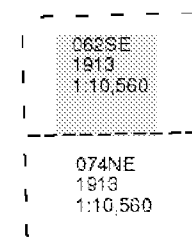
Sussex

Published 1913

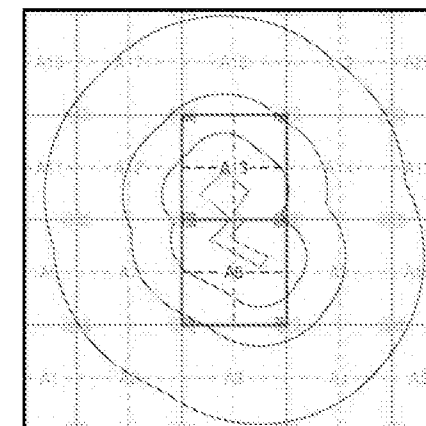
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

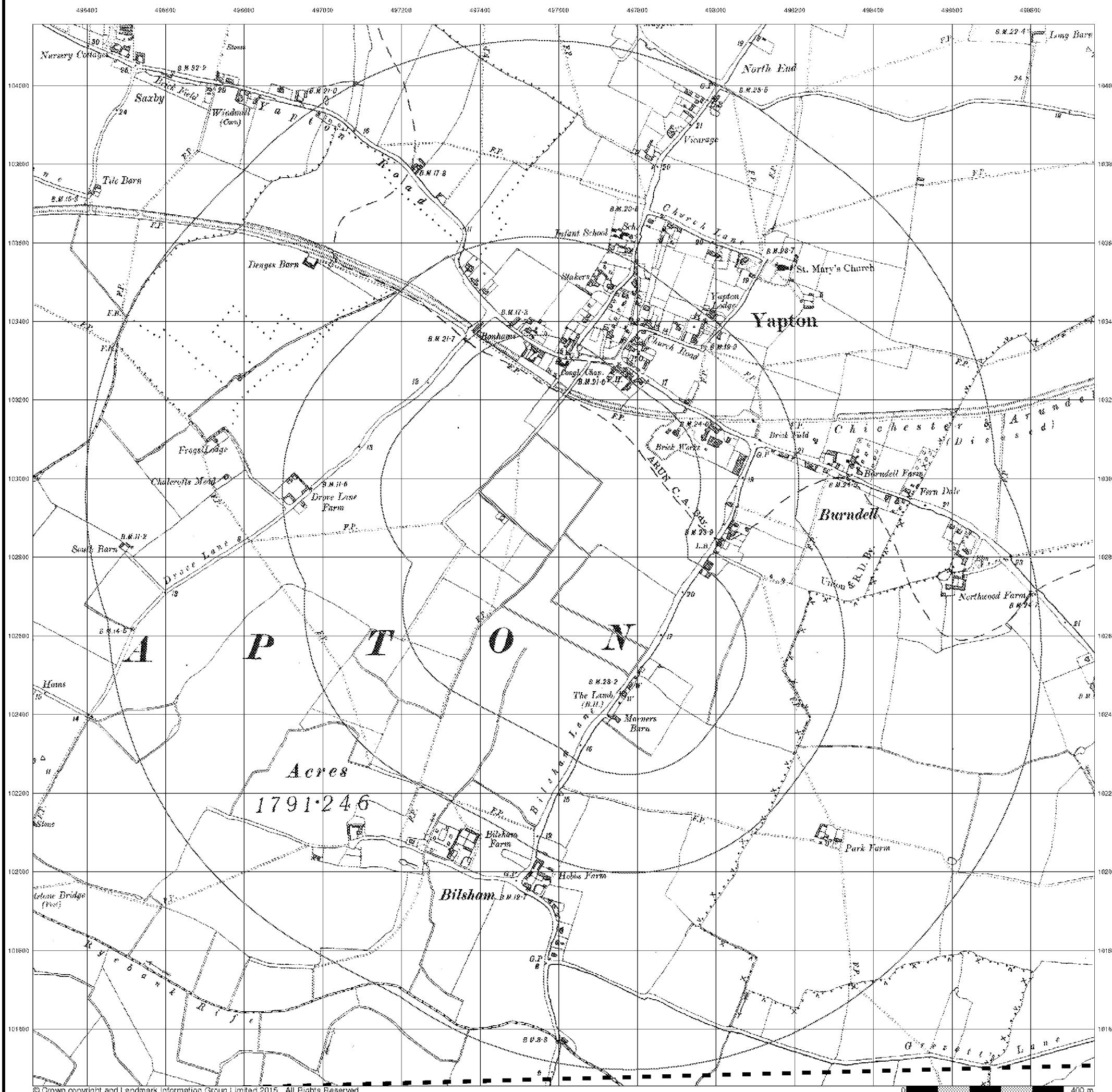
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

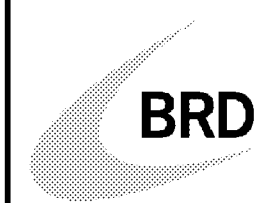
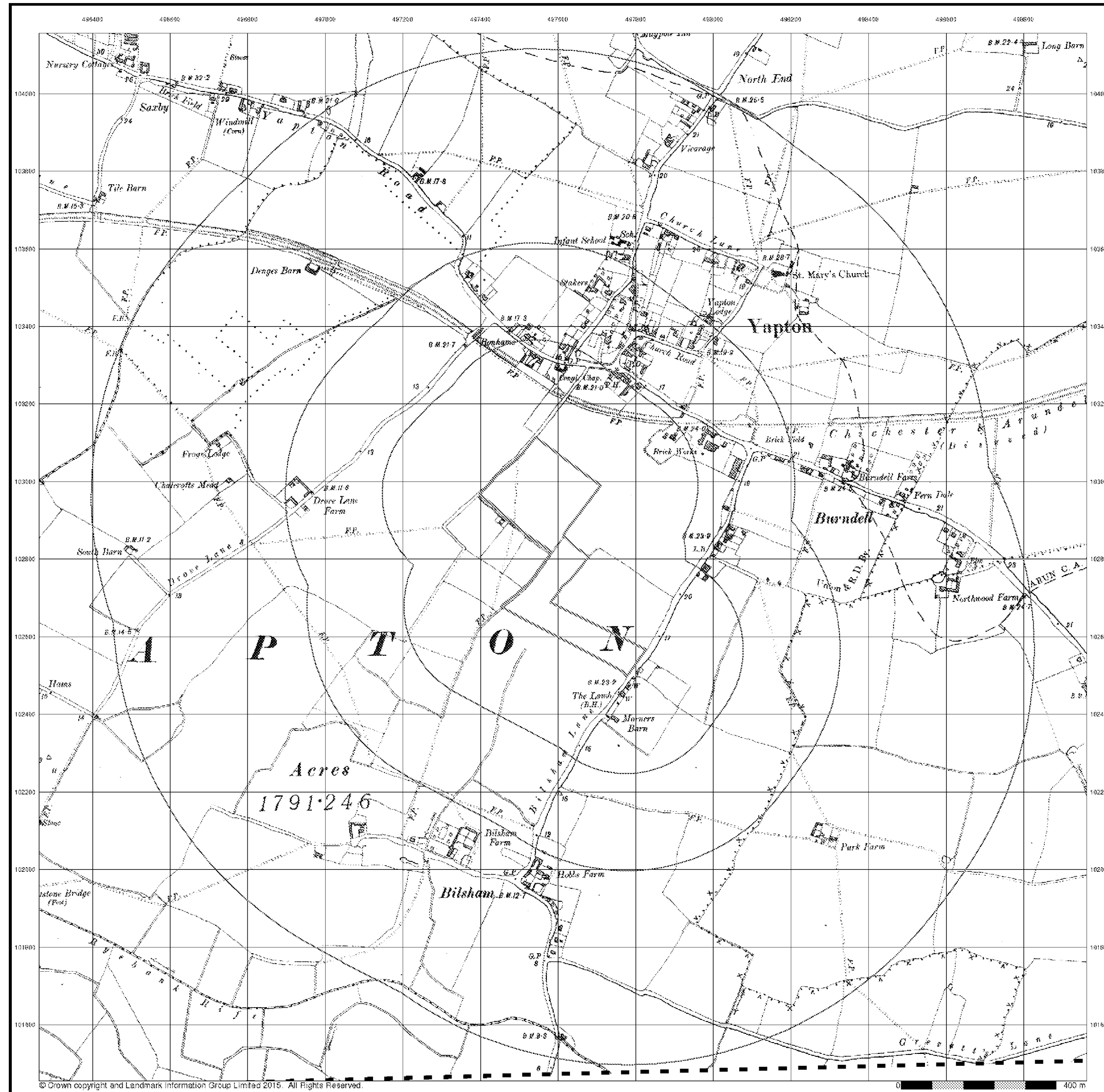
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





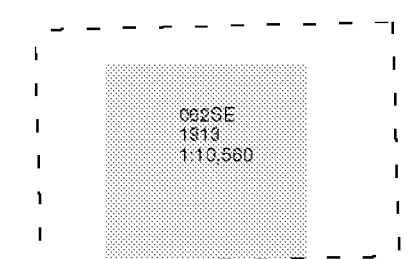
Sussex

Published 1913

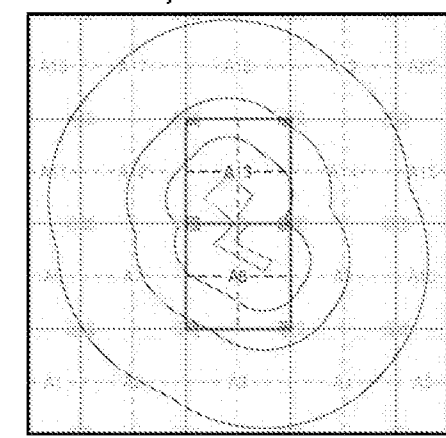
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

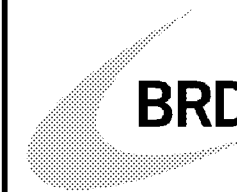
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



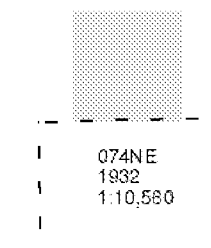
Sussex

Published 1932

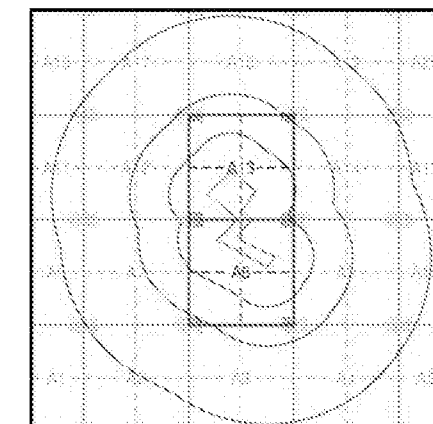
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

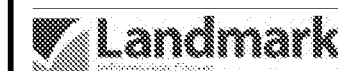


Order Details

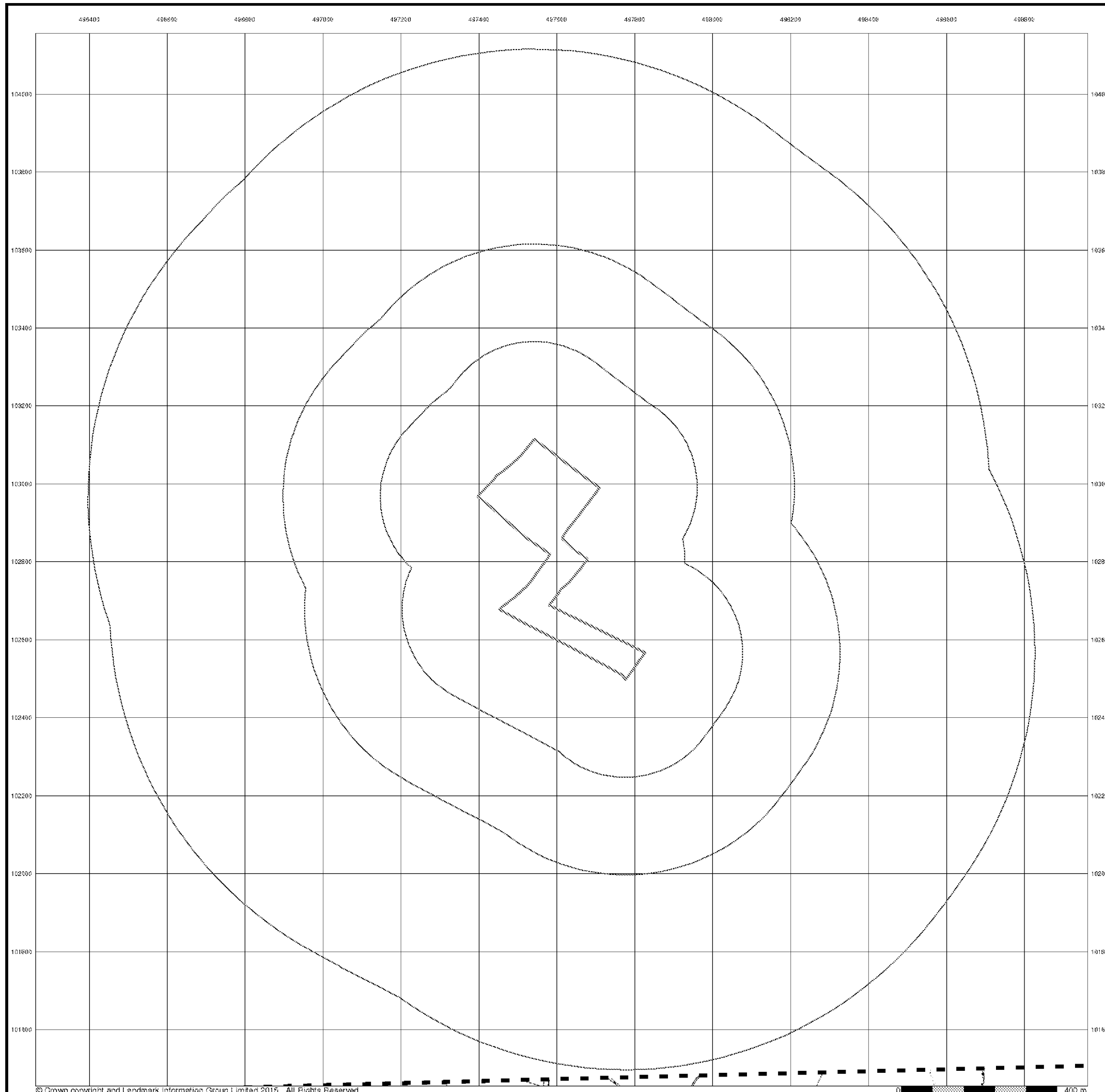
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





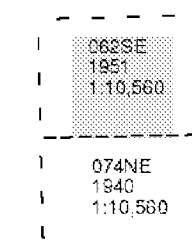
Sussex

Published 1940 - 1951

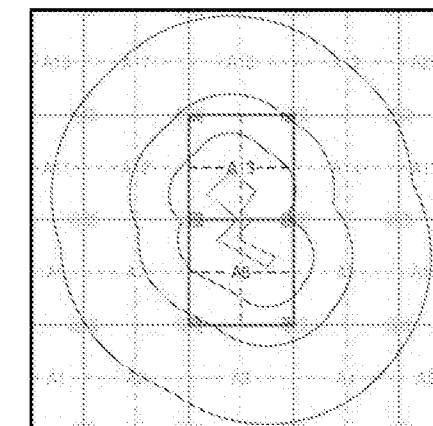
Source map scale - 1:10,560

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

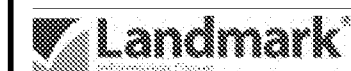


Order Details

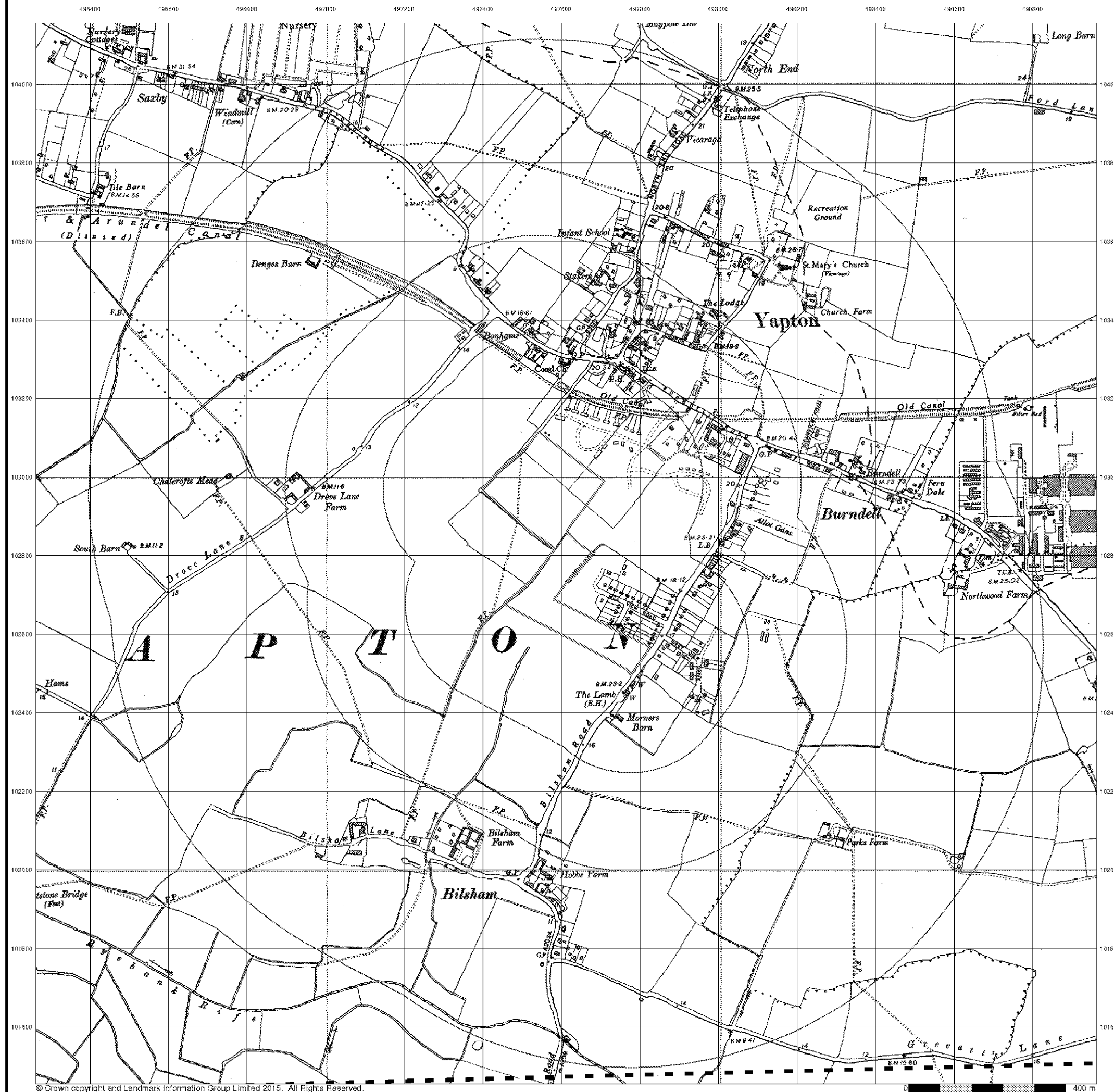
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

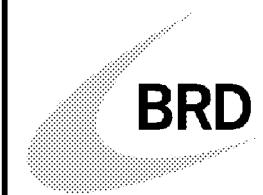
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Historical Aerial Photography

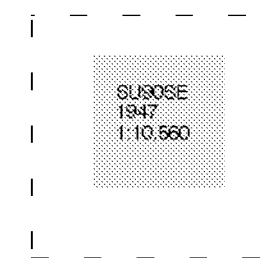
Published 1947

Source map scale - 1:10,560

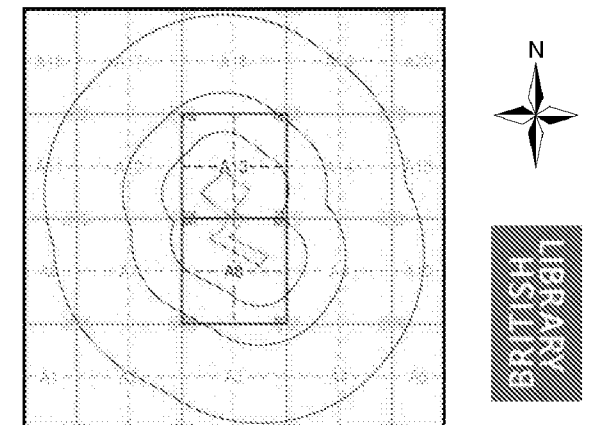
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

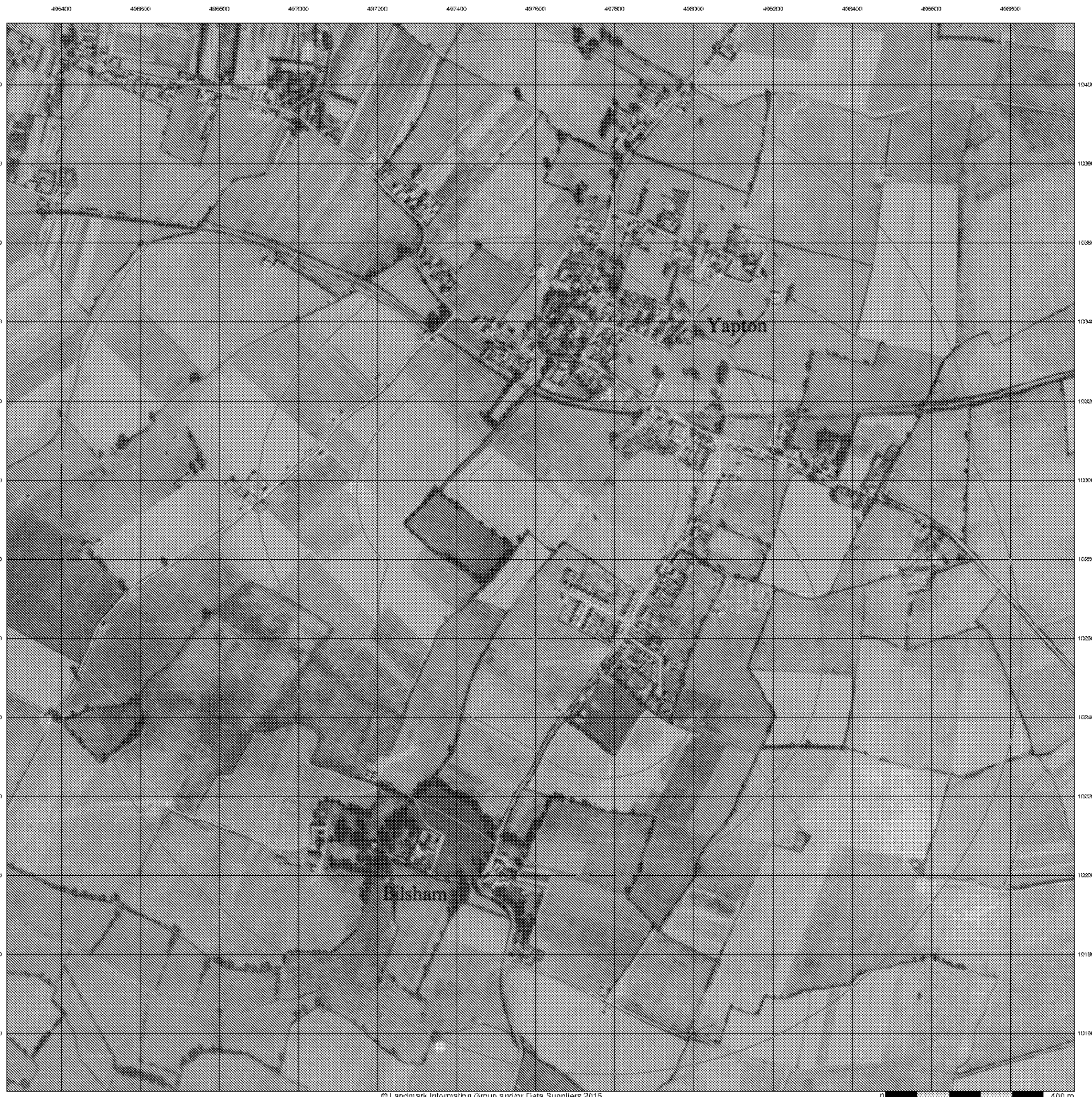
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



© Landmark Information Group and/or Data Suppliers 2015.

0 400 m



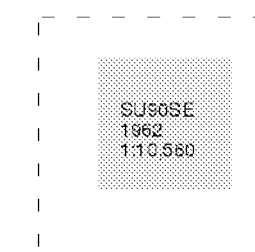
Ordinance Survey Plan

Published 1962

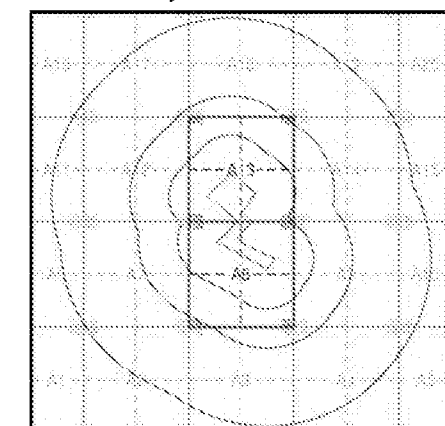
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

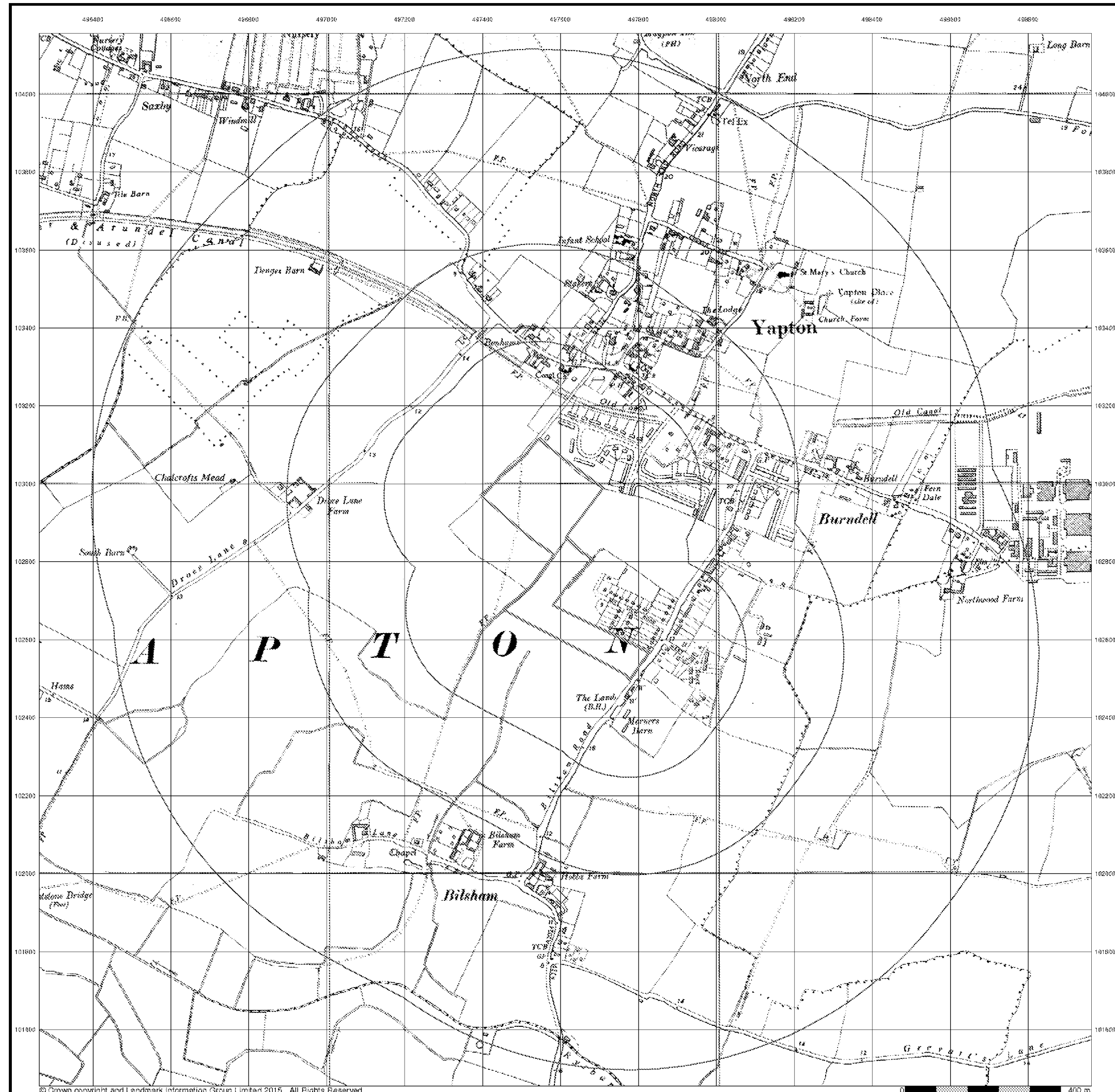
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





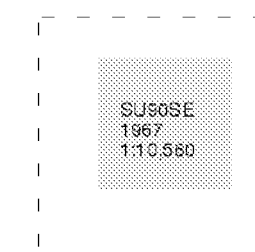
Ordnance Survey Plan

Published 1967

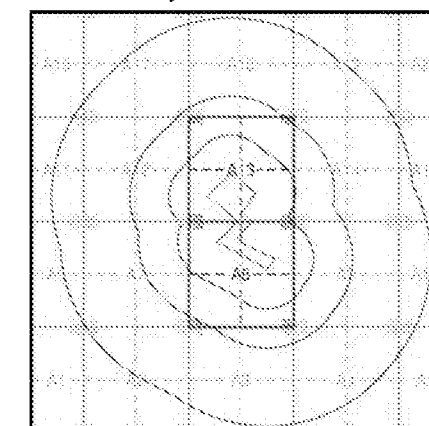
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

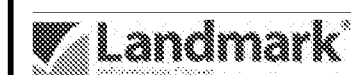


Order Details

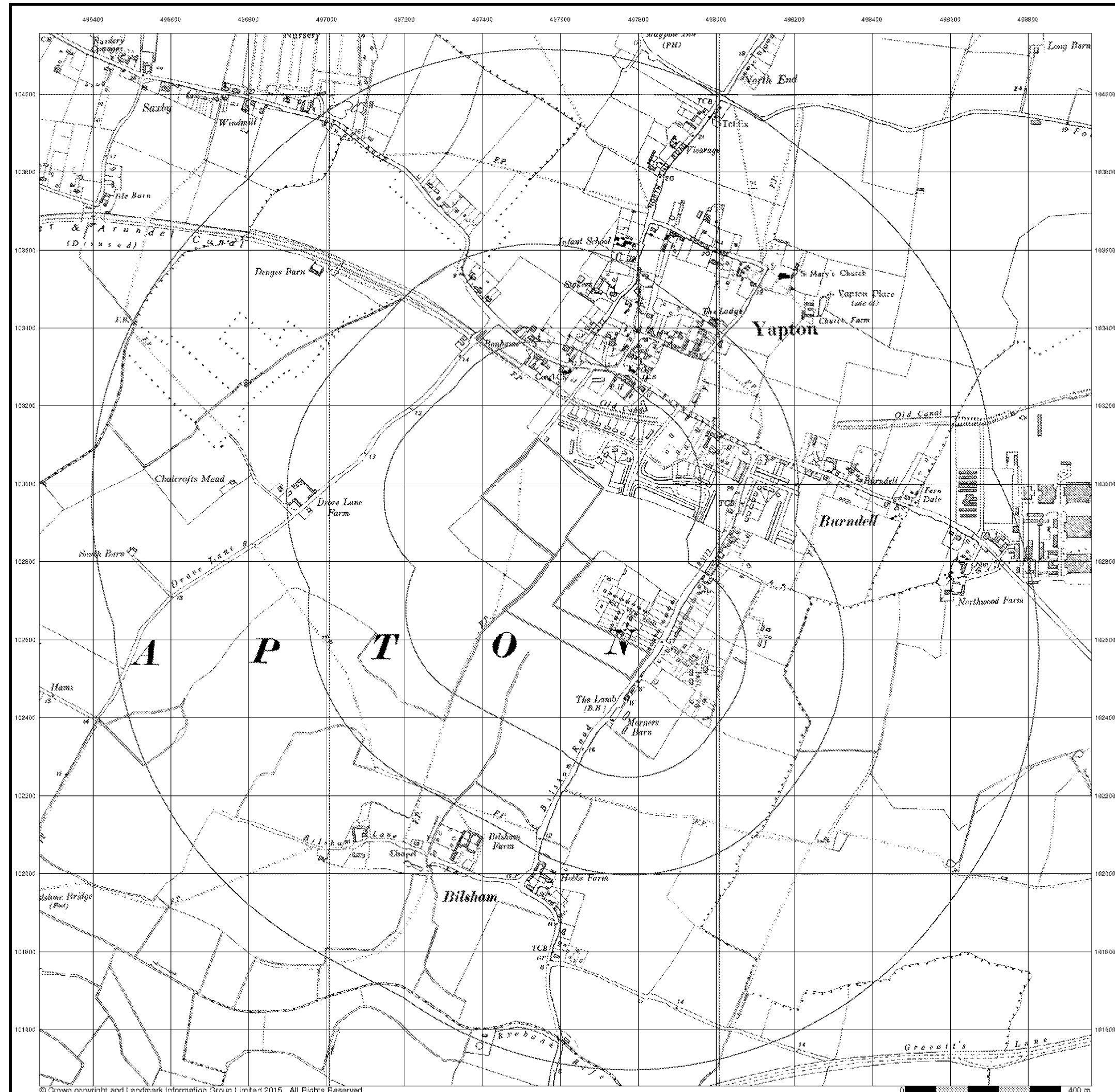
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





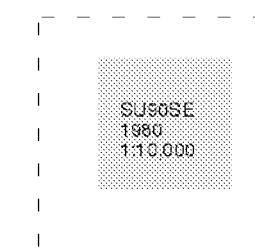
Ordnance Survey Plan

Published 1980

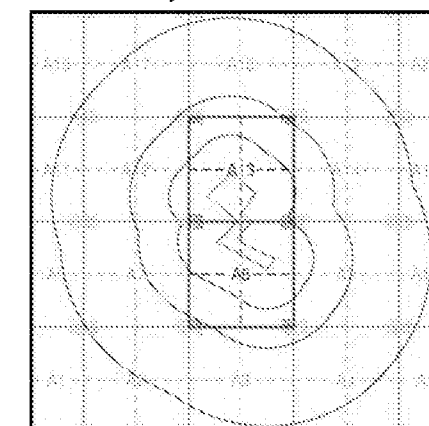
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

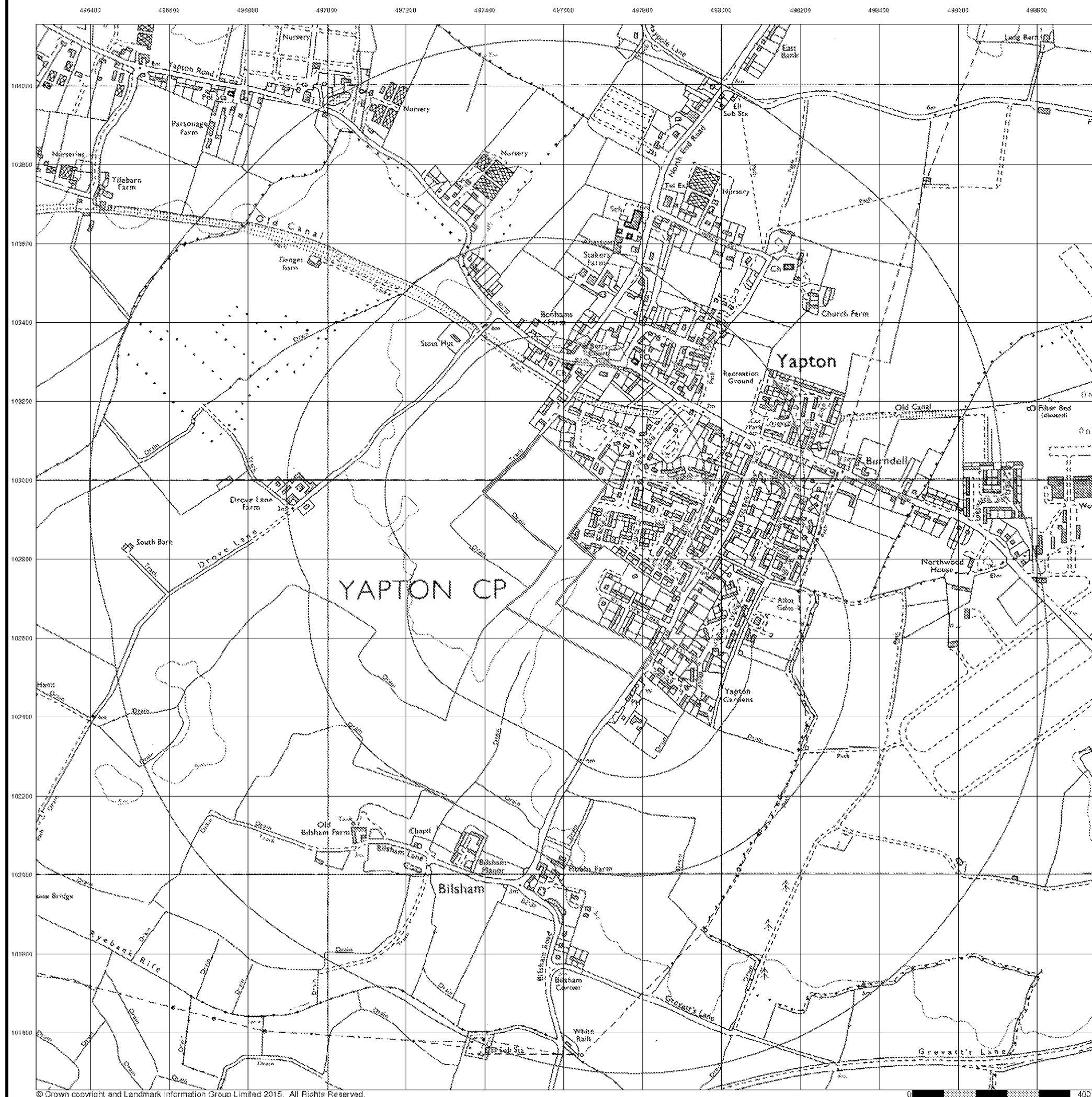
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





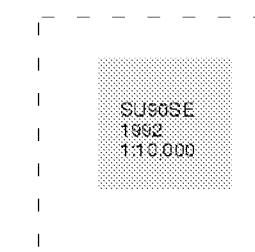
Ordinance Survey Plan

Published 1992

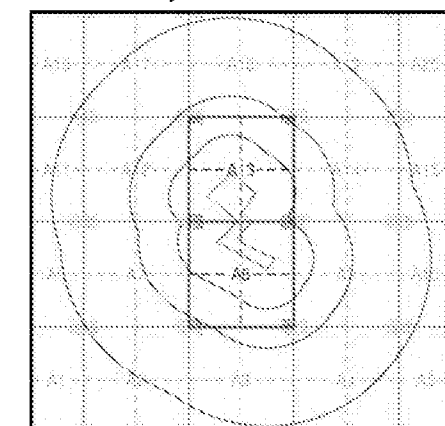
Source map scale - 1:10,000

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; these maps were used to update the 1:10,560 maps. The published date given therefore 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. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

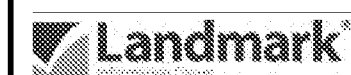


Order Details

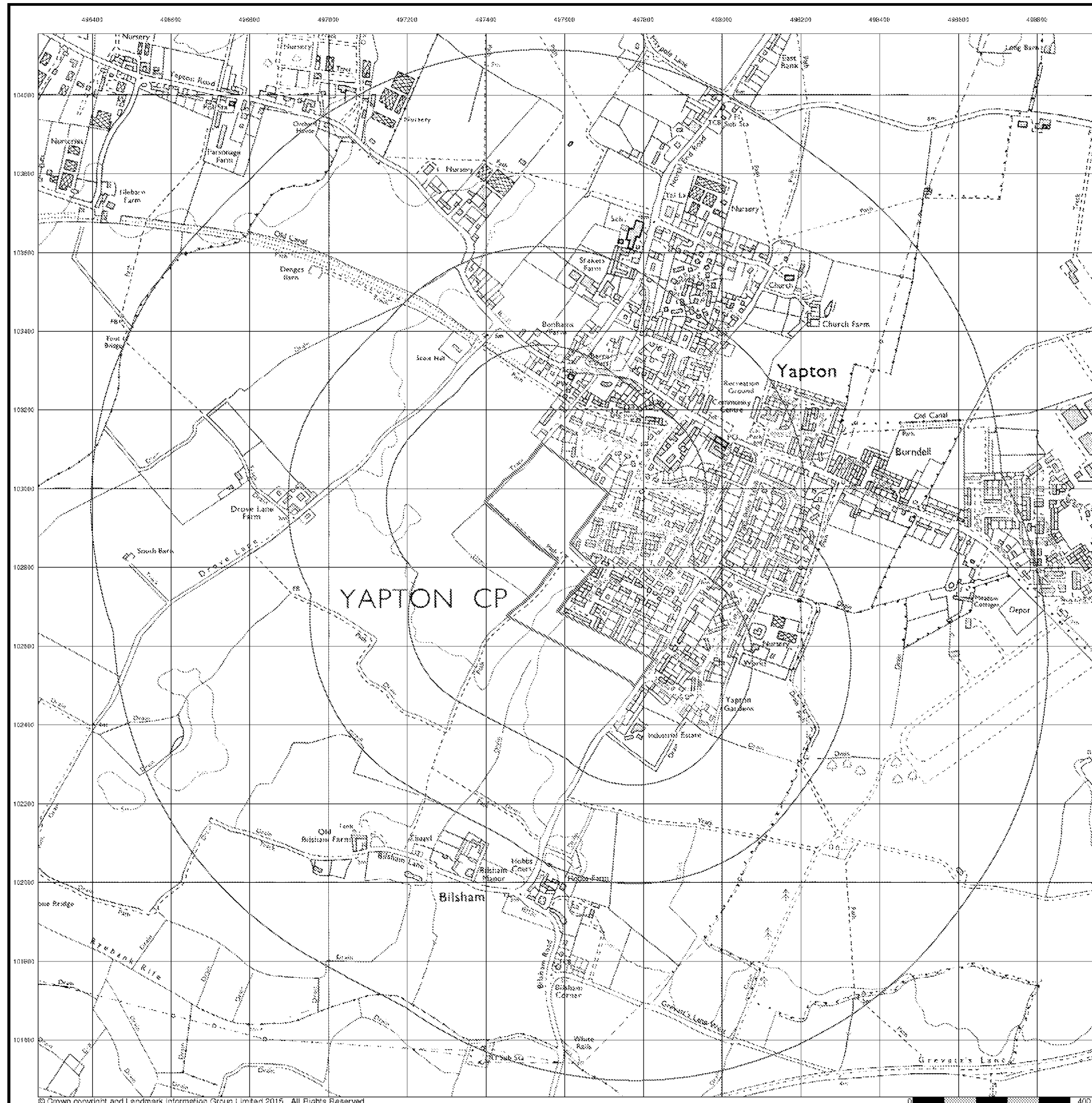
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

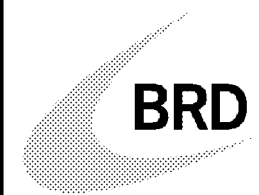
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



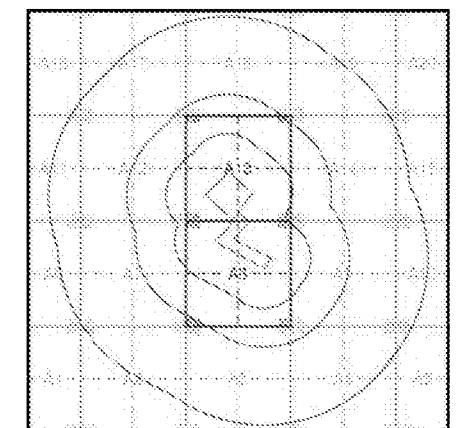


Historical Aerial Photography

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 - Slice A



Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

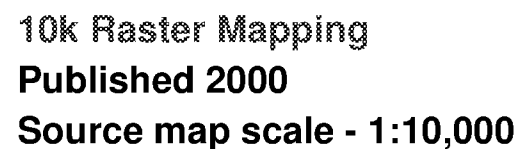
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



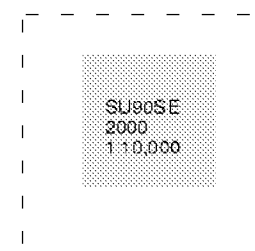
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



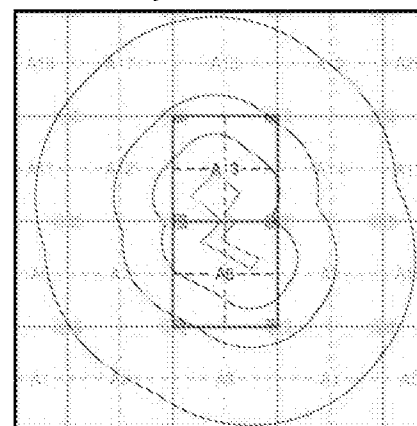


The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

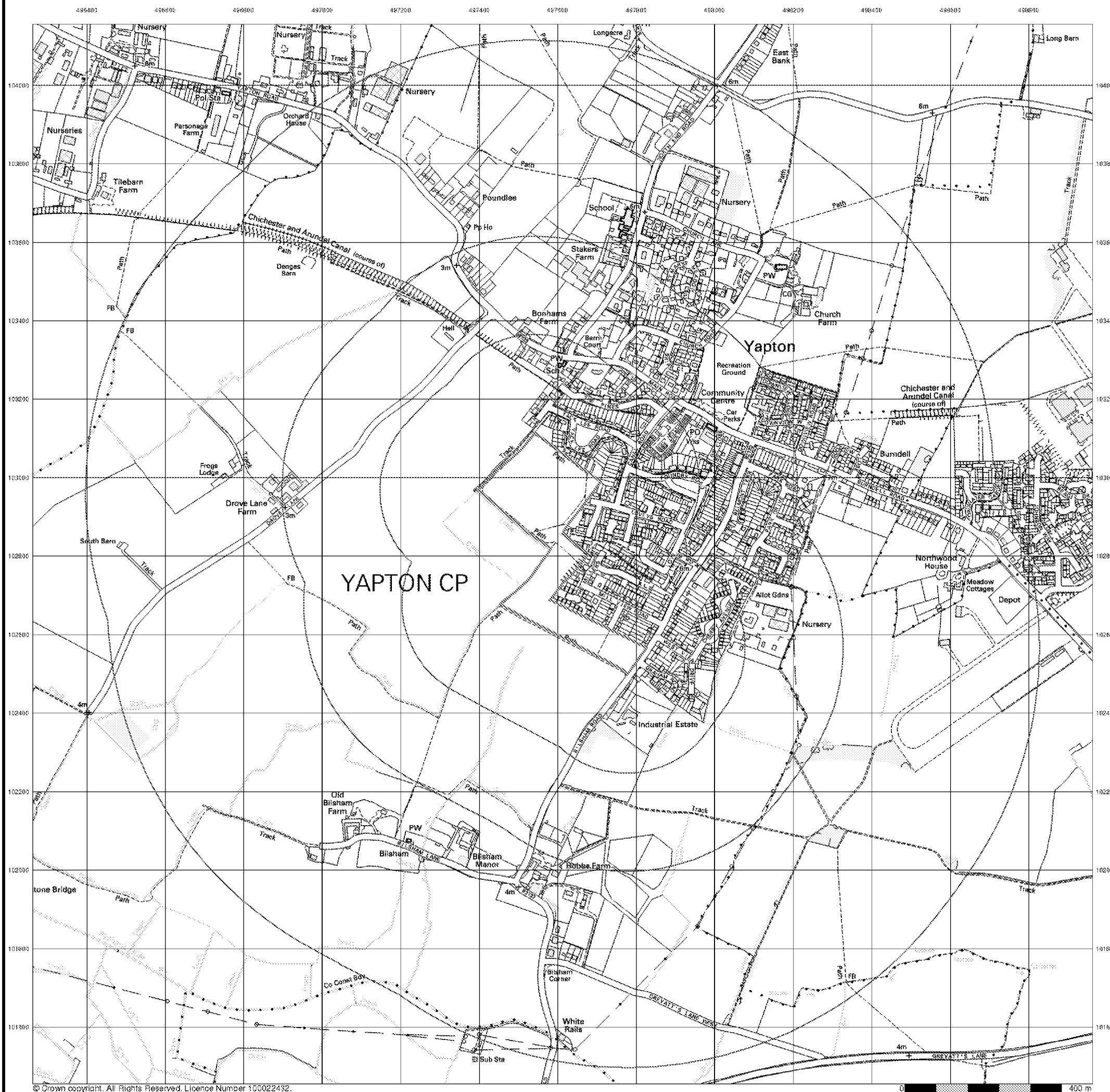
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

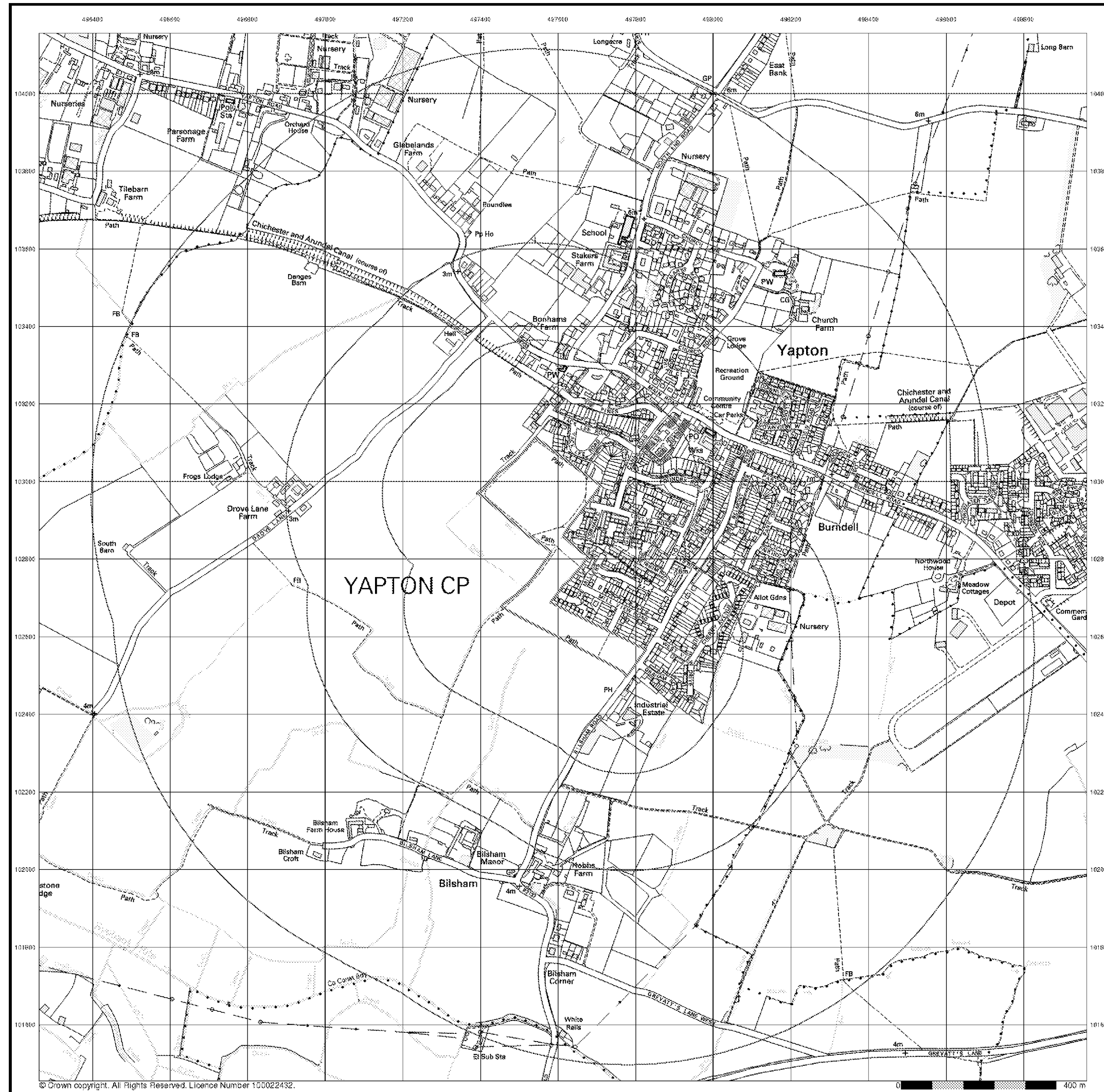
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

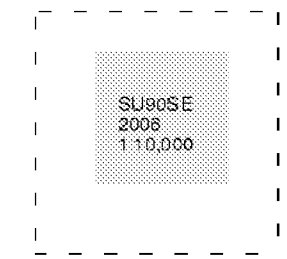




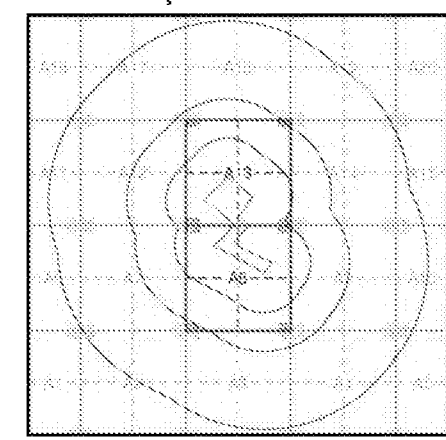
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

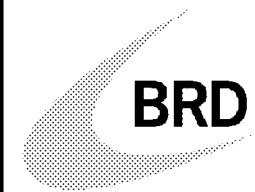
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



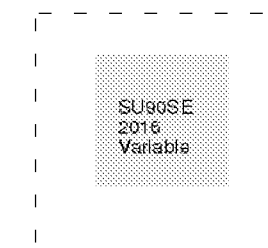
VectorMap Local

Published 2016

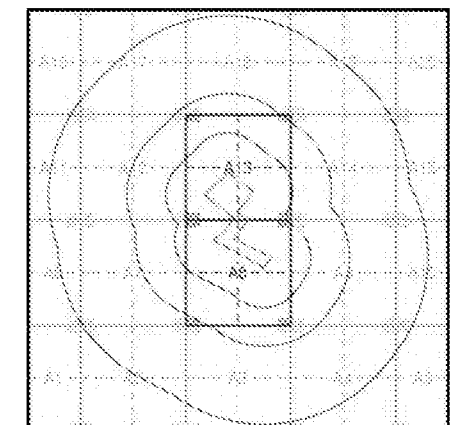
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A

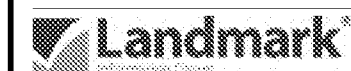


Order Details

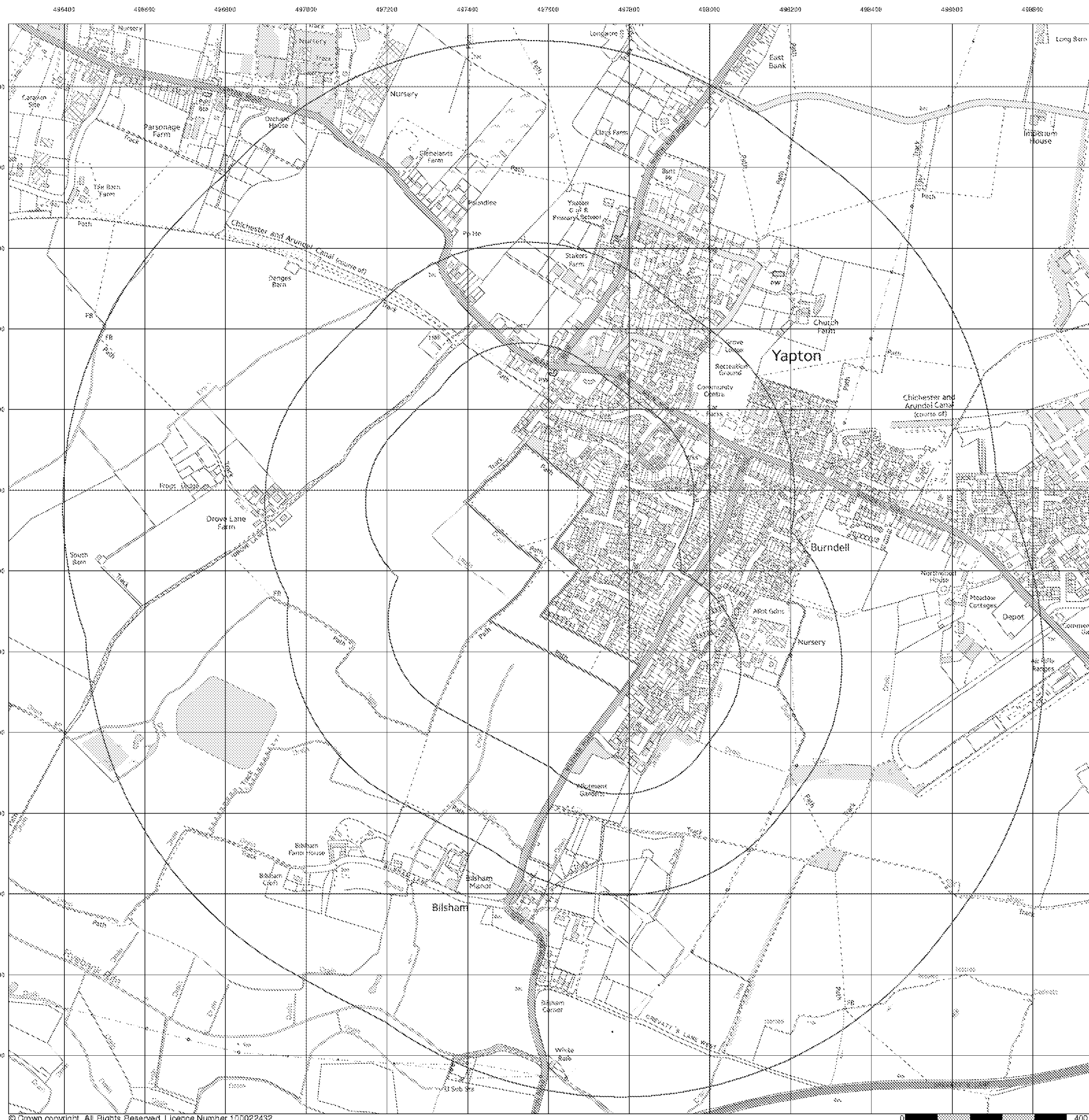
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



APPENDIX 3



Envirocheck® Report:

Datasheet

Order Details:

Order Number:

84657229_1_1

Customer Reference:

BRD2693

National Grid Reference:

497620, 102800

Slice:

A

Site Area (Ha):

8.6

Search Buffer (m):

1000

Site Details:

Land at Bilsham Road

Yapton

Arundel

BN18 0HB

Client Details:

Ms A Stratford

BRD Environmental Ltd

Hawthorne Villa

1 Old Parr Road

Banbury

Oxfordshire

OX16 5HT

Prepared For:

Gleeson Developments

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	17
Hazardous Substances	-
Geological	20
Industrial Land Use	22
Sensitive Land Use	28
Data Currency	29
Data Suppliers	34
Useful Contacts	35

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.

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v50.0

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		4	4	9
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5	Yes			
Pollution Incidents to Controlled Waters	pg 5			1	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				1 (*27)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 12	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 13	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 13	Yes		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
Detailed River Network Lines	pg 13	Yes	Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 16		Yes	Yes	n/a

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 17			1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 17				2
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 18				1
Potentially Infilled Land (Non-Water)	pg 18		1	1	
Potentially Infilled Land (Water)	pg 18	1	4		9
Registered Landfill Sites	pg 19				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 19				2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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 20	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 20	Yes			Yes
BGS Recorded Mineral Sites	pg 20		1	1	
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			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					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 21	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		13	5	22
Fuel Station Entries	pg 25		1		1
Points of Interest - Commercial Services	pg 25		1	3	6
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 26			6	3
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental	pg 27			3	
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					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 28	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: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (W)	0	2	497600 102798
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	0	2	497618 102798
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (E)	111	2	497900 102700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	133	2	497650 103200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	223	2	498050 102600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A9NW (E)	253	2	498000 102798
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (S)	356	2	497500 102250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	413	2	497850 103400
1	Discharge Consents Operator: R. Taylor Esq. Property Type: Undefined Or Other Location: Bilsham Road, Yapton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01639 Permit Version: 1 Effective Date: 6th October 1967 Issued Date: 6th October 1967 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water 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 10m	A8NE (SE)	54	3	497830 102480
1	Discharge Consents Operator: R. Taylor Esq. Property Type: Undefined Or Other Location: Bilsham Road, Yapton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01639 Permit Version: 1 Effective Date: 6th October 1967 Issued Date: 6th October 1967 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water 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 10m	A8SE (SE)	90	3	497860 102460
2	Discharge Consents Operator: R. Taylor Esq. Property Type: Undefined Or Other Location: Bilsham Road, Yapton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01639 Permit Version: 1 Effective Date: 6th October 1967 Issued Date: 6th October 1967 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water 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 10m	A8SE (SE)	146	3	497900 102420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Ambleside Developments Ltd. Property Type: General Construction Work Location: Residential Development, Off Cherry Lane, Yapton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02208 Permit Version: 1 Effective Date: 21st August 1973 Issued Date: 21st August 1973 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	203	3	498030 102570
4	Discharge Consents Operator: Ambleside Developments Ltd. Property Type: General Construction Work Location: Residential Development, Off Cherry Lane, Yapton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02208 Permit Version: 1 Effective Date: 21st August 1973 Issued Date: 21st August 1973 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (E)	295	3	498090 102700
5	Discharge Consents Operator: Enterprising Developments Ltd Property Type: Domestic Property (Multiple) Location: New Estate At Belmont Estate, YAPTON Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02741 Permit Version: 1 Effective Date: 1st July 1991 Issued Date: 1st July 1991 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (E)	338	3	498110 102750
6	Discharge Consents Operator: A W Bone Esq Property Type: Domestic Property (Single) Location: Bilsham Bar, Bilsham Lane, YAPTON, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00836 Permit Version: 1 Effective Date: 11th May 1987 Issued Date: 11th May 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company 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	A8SW (S)	393	3	497440 102240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Mr Richard Hocking Property Type: Mixed Farming Location: Drove Lane Farm, Yapton, Arundel, West Sussex, Bn18 0eb Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/107su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge: Into Land Environment: Receiving Water: Into Land 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	A12SE (W)	459	3	496940 102930
8	Discharge Consents Operator: S.Hyams Esq. Property Type: Domestic Property (Single) Location: Little Meadow, Hobbs Farm, Bilsham Road Yapton, Arundel West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02308 Permit Version: 1 Effective Date: 27th April 1989 Issued Date: 27th April 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A3NW (S)	553	3	497580 101980
9	Discharge Consents Operator: B.P.Jarvis Property Type: Undefined Or Other Location: Bilsham Barn, Bilsham Lane, Bilsham , Bognor Regis West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01118 Permit Version: 1 Effective Date: 8th October 1987 Issued Date: 8th October 1987 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage 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	A3NW (SW)	581	3	497320 102090
10	Discharge Consents Operator: Mr K Hurdley Property Type: Domestic Property (Single) Location: The Chapel, Bilsham Lane, Bilsham, Arundel, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P06993 Permit Version: 1 Effective Date: 3rd November 1997 Issued Date: 3rd November 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River 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	A2NE (SW)	635	3	497260 102060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Ginger Gilmore Property Type: Domestic Property (Single) Location: Old Bilsham Farmhouse, Bilsham Lane, Bilsham, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09689 Permit Version: 1 Effective Date: 28th March 2001 Issued Date: 28th March 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	705	3	497080 102080
11	Discharge Consents Operator: Mr S Morgan Property Type: Domestic Property (Single) Location: Temporary Dwelling, Bilsham Lane, Bilsham, Yapton Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P03477 Permit Version: 1 Effective Date: 19th March 1991 Issued Date: 19th March 1991 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Freshwater River Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A2NE (SW)	705	3	497050 102100
11	Discharge Consents Operator: Mr And Mrs Hartley Property Type: Domestic Property (Single) Location: Bilsham Croft, Bilsham Lane, Yapton, Arundel, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Aldingbourne/Barnham Rife Reference: P10324 Permit Version: 1 Effective Date: 20th March 2002 Issued Date: 20th March 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Freshwater River Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	733	3	497060 102060
12	Discharge Consents Operator: Mrs E G Shears Property Type: Domestic Property (Single) Location: 2 White Rails Cottage, Bilsham Road, Bilsham, Yapton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06282 Permit Version: 1 Effective Date: 29th July 1996 Issued Date: 29th July 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Freshwater River Receiving Water: Freshwater River Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A3SW (S)	952	3	497610 101560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: Mr & Mrs R L Hilman Property Type: Domestic Property (Single) Location: 1 White Rails Cottage, Bilsham Road, Bilsham, Yapton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06283 Permit Version: 1 Effective Date: 29th July 1996 Issued Date: 29th July 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River 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	A3SW (S)	952	3	497610 101560
12	Discharge Consents Operator: Home Space Sustainable Acc. Cic Property Type: Other Tourist/Short Stay Accommodation Location: Gypsy Caravan Site, Middleton-On-Sea, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Aldingbourne/Barnham Rife Reference: N01505 Permit Version: 1 Effective Date: 2nd February 1981 Issued Date: 2nd February 1981 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A3SE (S)	975	3	497650 101530
	Nearest Surface Water Feature	A8NE (SE)	0	-	497655 102780
13	Pollution Incidents to Controlled Waters Property Type: Agricultural Location: Rear Of Cinders Lane Nursery, YAPTON Authority: Environment Agency, Southern Region Pollutant: Oils - Diesel (Including Agricultural) Note: Red Diesel In Ditch; Horticultural Incident Date: 27th February 1995 Incident Reference: 1232 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	A9NW (E)	441	3	498250 102690
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Other Location: Bilsham Rife, U/S, Road Bridge, BILSHAM Authority: Environment Agency, Southern Region Pollutant: Sewage - Treated Effluent Note: White Discharge To Rife; Private Sewage (Non-Plc): Other Incident Date: 1st November 1995 Incident Reference: 1454 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Sewage - Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3SE (S)	980	3	497650 101525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Abstractions Operator: Mr A Clay Esq Licence Number: 10/41/411007 Permit Version: 100 Location: The Streddles, North End Road, Yapton Authority: Environment Agency, Southern Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 18th July 1979 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	775	3	497840 103830
	Water Abstractions Operator: I R Gibbs Licence Number: 10/41/542011 Permit Version: 100 Location: Points C&D At Ryebank Rife, Middleton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: For Spray Irrigation Within Land Bodily Marked Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 10th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1149	3	498000 101370
	Water Abstractions Operator: Mr R Lonsdale Licence Number: 10/41/542008 Permit Version: 101 Location: Point A At Tile Barn Farm, Barnham Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used On Land And Buildings In The Occupation Of The Licence Holder At Tile Barn Farm Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 17th January 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (NW)	1184	3	496460 103690
	Water Abstractions Operator: Mr R Lonsdale Licence Number: 10/41/542008 Permit Version: 100 Location: Point A At Tile Barn Farm, Barnham Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used On Land And Buildings In The Occupation Of The Licence Holder At Tile Barn Farm Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 14th January 1974 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SE (NW)	1184	3	496460 103690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: I R Gibbs Licence Number: 10/41/542011 Permit Version: 100 Location: Points A&B At Ryebank Rife,Middleton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 45 Yearly Rate (m3): 4550 Details: For Spray Irrigation Within Land Bodly Marked Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 10th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1247	3	497800 101250
	Water Abstractions Operator: Langmead Farms Ltd Licence Number: 27/209 Permit Version: 1 Location: Ryebank Rife, Point A - Bilsham Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 16th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1360	3	496390 101830
	Water Abstractions Operator: Adviserate T/A Southdown Flowers Licence Number: 412002 Permit Version: Not Supplied Location: Adviserate Limited Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 68 Yearly Rate (m3): 18181 Details: Todhurst Rife (Trib Arun) Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1365	3	498000 104400
	Water Abstractions Operator: The Donald Langmead Partnership Licence Number: 10/41/541002 Permit Version: 100 Location: Point 2 At Shripney Farm & Flansham Farm Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used On Land And Buildings In The Occupation Of The Licence Holder At Shripney And Flansham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1SE (SW)	1367	3	496440 101760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Keith Langmead Ltd Licence Number: 10/41/412007 Permit Version: 101 Location: Wicks Farm, Ford Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 June Authorised End: 30 September Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NW (NE)	1432	3	498790 103930
	Water Abstractions Operator: Mr A C Langmead Esq Licence Number: 10/41/412007 Permit Version: 100 Location: Wicks Farm, Ford Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 June Authorised End: 30 September Permit Start Date: 30th May 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NW (NE)	1432	3	498790 103930
	Water Abstractions Operator: The Donald Langmead Partnership Licence Number: 10/41/541002 Permit Version: 100 Location: Point 3 At Shripney Farm & Flansham Farm Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used On Land And Buildings In The Occupation Of The Licence Holder At Shripney And Flansham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SW (SW)	1443	3	496680 101460
	Water Abstractions Operator: James D Baird (Home Farm) Ltd Licence Number: 10/41/411016 Permit Version: 101 Location: Ryebank Rife - New Reach Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NW (SW)	1463	3	496190 101940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Fresh Acres Nurseries Ltd Licence Number: 10/41/412002 Permit Version: 100 Location: Todhurst Rife At Yapton Lane, Walberton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 68 Yearly Rate (m3): 18181.6 Details: See Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1478	3	497730 104580
	Water Abstractions Operator: Eric Wall Holdings Ltd Licence Number: 10/41/542208 Permit Version: 100 Location: Point B, Lake Lane, Barnham Authority: Environment Agency, Southern Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Water Abstracted Shall Only Be Used On Land And Buildings On The Occupation Of The Licence Holder At Lake Lane, Barnham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1528	3	497110 104580
	Water Abstractions Operator: Star Nurseries Ltd Licence Number: 27/176 Permit Version: 100 Location: Todhurst Rife At Star Nurseries, Barnham Authority: Environment Agency, Southern Region Abstraction: Horticulture and Nurseries: Spray Irrigation - Spray Irrigation Definition Order Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Outlined On Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1594	3	497700 104700
	Water Abstractions Operator: Eric Wall Holdings Ltd Licence Number: 10/41/542208 Permit Version: 100 Location: Point A, Lake Lane, Barnham Authority: Environment Agency, Southern Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 545 Yearly Rate (m3): 100000 Details: The Water Abstracted Shall Only Be Used On Land And Buildings On The Occupation Of The Licence Holder At Lake Lane, Barnham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1663	3	496740 104570

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Langmead Farms Ltd Licence Number: So/041/0024/005 Permit Version: 1 Location: Ryebank Rife - Stakers Farm, Yapton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 23rd June 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1664	3	495837 102285
	Water Abstractions Operator: The Donald Langmead Partnership Licence Number: 10/41/542002 Permit Version: 100 Location: At Flansham Farm, Flansham Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used Only On Lands And Buildings In The Occupation Of The Licence Holder At Flansham Farm Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 7th December 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1842	3	496080 101450
	Water Abstractions Operator: Walberton Nursery Lp Licence Number: 10/41/412006 Permit Version: 101 Location: Todhurst Barn, Yapton Lane, Walberton Authority: Environment Agency, Southern Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 24th January 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1857	3	497610 104970
	Water Abstractions Operator: D Tristram T/A Walberton Nurseries Licence Number: 10/41/412006 Permit Version: 100 Location: Todhurst Barn, Yapton Lane, Walberton Authority: Environment Agency, Southern Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1857	3	497610 104970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tarmac Ltd Licence Number: 27/198 Permit Version: 1 Location: Ford Industrial Estate, Arundel Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Outlined In Black On Attached Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th January 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1863	3	499530 103390
	Water Abstractions Operator: Tarmac Heavy Building Materials Ltd Licence Number: 27/196 Permit Version: 1 Location: Ford Industrial Estate, Arundel Authority: Environment Agency, Southern Region Abstraction: Construction: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Outlined On Licence Map Authorised Start: 13 March Authorised End: 31 December Permit Start Date: 13th March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1863	3	499530 103390
	Water Abstractions Operator: Mr A Langmead Licence Number: 10/41/412004 Permit Version: 100 Location: Wicks Farm, Yapton Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 2nd April 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NE)	1863	3	499330 103910
	Water Abstractions Operator: Keith Langmead Ltd Licence Number: 27/190 Permit Version: 102 Location: Point A On Binstead Rife, Wicks Farm, Yapton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Shown Outlined In Red On Licence Map Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 16th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1876	3	498810 104510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Keith Langmead Ltd Licence Number: 27/190 Permit Version: 101 Location: Point A On Binstead Rife, Wicks Farm, Yapton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Shown Outlined In Black On Licence Map Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1876	3	498810 104510
	Water Abstractions Operator: A.C. Langmead Ltd Licence Number: 27/190 Permit Version: 100 Location: Point A On Binstead Rife, Wicks Farm, Yapton Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Shown Outlined In Black On Licence Map Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 16th August 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NE)	1876	3	498810 104510
	Water Abstractions Operator: Mr J L Baird Licence Number: 10/41/542009 Permit Version: 100 Location: Point A At New Barn, Climping Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Water Abstracted Shall Be Used On Area Outlined In Red On The Said Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1913	3	499260 101290
	Water Abstractions Operator: James D Baird (Home Farm) Ltd Licence Number: 10/41/411016 Permit Version: 101 Location: Elmer Rife Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1992	3	499270 101180
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 45 West Sussex and Surrey Scale: 1:100,000	A8NE (SE)	0	3	497618 102798
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 45 West Sussex and Surrey Scale: 1:100,000	A8NE (SE)	0	3	497628 102788

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A8NE (SE)	0	2	497618 102798
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A8NE (SE)	0	2	497618 102798
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (SE)	0	3	497635 102790
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (SE)	0	3	497635 102790
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
16	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (E)	0	3	497672 102802
17	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (NW)	0	3	497584 102821
18	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Bilsham Ditch Name: Water Course: N417 Reference:	A8NE (S)	0	3	497613 102734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Bilsham Ditch Name: Water Course: N417 Reference:	A8NE (SE)	0	3	497649 102773
20	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (NW)	1	3	497582 102819
21	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D007 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (NW)	1	3	497582 102819
22	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D007 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	2	3	497510 102727
23	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	2	3	497510 102727
24	Detailed River Network Lines River Type: Primary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk: Other Rivers Management Status: Water Course: Bilsham Ditch Name: Water Course: N417 Reference:	A8NW (SW)	67	3	497514 102569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	321	3	497673 102188
26	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	325	3	497606 102211
27	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	325	3	497673 102188
28	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	337	3	497122 102619
29	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (SW)	429	3	497374 102234
30	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Bilsham Ditch Name: Water Course: N417 Reference:	A8SW (SW)	429	3	497374 102234

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Currently Undefined Management Status: Water Course: Yapton Rife Name: Water Course: N406 Reference:	A12NE (NW)	491	3	497186 103473
32	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D007 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7SE (SW)	496	3	497083 102348
33	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A8SE (S)	132	3	497709 102383
34	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A8SE (SE)	156	3	497911 102415
35	Detailed River Network Offline Drainage River Type: Secondary River Hydrographic Area: D007	A9NW (SE)	191	3	498024 102550
36	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9NW (SE)	198	3	498034 102573
37	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9SW (SE)	215	3	497986 102420
38	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9NW (SE)	215	3	498047 102609
39	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9NW (E)	348	3	498189 102567
40	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9NW (E)	375	3	498201 102595
41	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9SW (SE)	402	3	498209 102442
42	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D007	A9SW (SE)	473	3	498228 102316

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Historical Landfill Sites Licence Holder: Not Supplied Location: Barnham, Sussex Name: Disused Canal at Barnham Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20083 First Input Date: 31st December 1970 Last Input Date: 31st December 1970 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3800/8225 BGS Ref: Not Supplied Other Ref: WD27/023	A13NW (NW)	320	3	497361 103377
44	Historical Landfill Sites Licence Holder: A C Langmead Location: Yapton, Sussex Name: Disused Canal at Yapton Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20084 First Input Date: 31st December 1980 Last Input Date: 26th March 1981 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3800/8018 BGS Ref: Not Supplied Other Ref: WD27/243, WD13/66	A14SE (NE)	616	3	498308 103137
45	Licensed Waste Management Facilities (Locations) Licence Number: 19754 Location: Jones And Co, Burndell Road, Yapton, West Sussex, BN18 0HP Operator Name: Jones P H Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Issued Issued: 31st March 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NE (E)	713	3	498500 102800
46	Licensed Waste Management Facilities (Locations) Licence Number: 100156 Location: Northwood Farm (Hanger No8), Burndell Road, Yapton, West Sussex, BN18 0HR Operator Name: T J Waste & Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 28th January 2008 Last Modified: 27th July 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	740	3	498471 102930
	Local Authority Landfill Coverage Name: Arun District Council - Has no landfill data to supply		0	4	497618 102798
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	5	497618 102798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Local Authority Recorded Landfill Sites Location: Old Canal, East Of Downview Road, Yapton Reference: Y/50/79 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	A14NE (NE)	721	5	498400 103200
48	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (NE)	144	-	497846 103060
49	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (NE)	407	-	498102 103100
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SW (NW)	0	-	497588 102822
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497661 102779
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497653 102770
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A9NW (E)	183	-	498049 102631
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A13NE (N)	247	-	497652 103335
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A9SE (SE)	668	-	498441 102303
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A9NE (E)	779	-	498583 102750
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	903	-	498671 102245
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	906	-	498675 102248
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A2SE (S)	908	-	497252 101755
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A10SW (SE)	913	-	498667 102209
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A3SW (S)	928	-	497360 101668
62	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	977	-	497033 103948
63	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	980	-	497073 103975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Registered Landfill Sites Licence Holder: A C Langmead Licence Reference: 5/AP/79 Site Location: Disused Chichester/Arundel Canal, North Of Burndell Road, Yapton, Arundel, West Sussex Licence Easting: 498400 Licence Northing: 103160 Operator Location: Wicks Farm, Yapton, Arundel, West Sussex Authority: Environment Agency - Southern Region, Sussex Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 10th December 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials \$ Prohibited Waste: Contaminated Rubble Contaminated Soil	A14NE (NE)	711	3	498400 103160
65	Registered Waste Treatment or Disposal Sites Licence Holder: P Hill Jones Licence Reference: WSX/L1/0052/1 Site Location: Jones & Co, Burndell Road, Yapton, Arundel, West Sussex, Bn18 0hp Operator Location: 148 Barnham Road, BOGNOR REGIS, West Sussex, PO22 0EH Authority: Environment Agency - Southern Region, Sussex Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 31st March 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Elec/Electronic Compts/Fitt/Fixt/Apps Empty Used Containers > 25 L Lead/Acid Batteries Max.Waste Permitted By Licence Scrap Metal Prohibited Waste: Asbestos Metallic Powders Pcb'S And Analogues Percussive/Explosive/Similar Waste Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Sub'S Control. Radioactive Subs Act60 Waste N.O.S. Waste React.Violently W/ Water Or Air	A14SE (E)	590	3	498300 103000
66	Registered Waste Treatment or Disposal Sites Licence Holder: Landtech International Ltd Licence Reference: 5/BZ/92 Site Location: South West Of Yapton Road, Ford Airfield, Ford, Arundel, West Sussex Operator Location: Landtech House, Farren Court, Cowfold, HORSHAM, West Sussex, RH13 8BP Authority: Environment Agency - Southern Region, Sussex Area Site Category: Composting Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Unknown Boundary Quality: Not Supplied Authorised Waste: Any Waste Approved By Licensing Auth. Grass Cuttings,Leaves,Branches,Plants Max.Storage Unprocessed Waste Otheswaste Norm'Y Assoc. Park/Garden Similar From Parks & Gardens	A9NE (E)	782	3	498609 102549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A8NE (SE)	0	2	497618 102798
	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	A13SE (N)	0	2	497618 103000
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	0	2	497618 102798
	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	A17NE (N)	974	2	497210 104030
67	BGS Recorded Mineral Sites Site Name: Burndell Brick Yard Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157582 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (NE)	195	2	497877 103090
68	BGS Recorded Mineral Sites Site Name: Burndell Brick Field Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157583 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (NE)	495	2	498190 103111
	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				
	Non Coal Mining Areas of Great Britain No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	2	497618 102798
	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	A8NE (SE)	0	2	497618 102798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	Contemporary Trade Directory Entries Name: Diamond Location: 24, Canal Road, Yapton, Arundel, West Sussex, BN18 0HD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (NE)	36	-	497746 102985
69	Contemporary Trade Directory Entries Name: Diamond Carpet & Upholstery Cleaning Services Location: 24, Canal Road, Yapton, Arundel, West Sussex, BN18 0HD Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (NE)	36	-	497746 102985
70	Contemporary Trade Directory Entries Name: Obsessive Cleaning Divas Location: 6, Cobham Close, Yapton, Arundel, West Sussex, BN18 0LF Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (NE)	66	-	497718 102892
70	Contemporary Trade Directory Entries Name: O C D 2015 Ltd Location: 6, Cobham Close, Yapton, Arundel, West Sussex, BN18 0LF Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (NE)	66	-	497718 102892
71	Contemporary Trade Directory Entries Name: R & D Ayling Location: Unit 13, Bilsham Road, Yapton, Arundel, West Sussex, BN18 0JN Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	102	-	497780 102395
71	Contemporary Trade Directory Entries Name: Felpham Mowers Location: Unit 9, Bilsham Road, Yapton, ARUNDEL, West Sussex, BN18 0JN Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	126	-	497792 102372
71	Contemporary Trade Directory Entries Name: Hydro Art Location: Unit 9, Bilsham Road, Yapton, Arundel, West Sussex, BN18 0JN Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	126	-	497792 102372
72	Contemporary Trade Directory Entries Name: Sfp Location: 9, Canal Road, Yapton, Arundel, West Sussex, BN18 0HA Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (NE)	103	-	497801 103037
73	Contemporary Trade Directory Entries Name: Klean It Division Ltd Location: 32, Taylors Close, Yapton, Arundel, West Sussex, BN18 0FN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (SE)	142	-	497868 102389
74	Contemporary Trade Directory Entries Name: G S Auto Recovery Location: Main Road, Yapton, Arundel, West Sussex, BN18 0EA Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (N)	187	-	497581 103297
74	Contemporary Trade Directory Entries Name: Reptune Motors Location: Main Road, Yapton, Arundel, West Sussex, BN18 0EA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (N)	187	-	497581 103297
75	Contemporary Trade Directory Entries Name: Ayrllect Associates Location: 23, Cherry Avenue, Yapton, Arundel, West Sussex, BN18 0LB Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (E)	190	-	497998 102649

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Contemporary Trade Directory Entries Name: Mowcare Location: Unit 14, Bilsham Ind Est, Yapton, Arundel, West Sussex, BN18 0JN Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (E)	204	-	497970 102712
77	Contemporary Trade Directory Entries Name: Barnly Engineering Location: Kings Close, Yapton, Arundel, West Sussex, BN18 0EX Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (NE)	307	-	497990 103116
78	Contemporary Trade Directory Entries Name: Arun Pest Control Service Location: 23, Briar Close, Church Road, Yapton, Arundel, West Sussex, BN18 0ES Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	368	-	497930 103285
79	Contemporary Trade Directory Entries Name: Maison Belles Location: 8, Fairholme Drive, Yapton, Arundel, West Sussex, BN18 0JH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (E)	407	-	498161 102798
79	Contemporary Trade Directory Entries Name: K S W Vehicle Inspections Location: 21, Fairholme Drive, Yapton, Arundel, West Sussex, BN18 0JH Classification: Vehicle Inspection Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (E)	436	-	498199 102795
80	Contemporary Trade Directory Entries Name: P & H Plumbing & Heating Location: 10, Park Road, Yapton, Arundel, West Sussex, BN18 0JE Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	436	-	498146 102983
81	Contemporary Trade Directory Entries Name: Access Scaffolding Location: 3, Ryebank Walk, Burndell Road, Yapton, Arundel, West Sussex, BN18 0FJ Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	548	-	498257 103028
82	Contemporary Trade Directory Entries Name: Hyams Autolift Location: Little Meadow, Bilsham Road, Yapton, Arundel, West Sussex, BN18 0JY Classification: Fork Lift Trucks Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	577	-	497634 101938
82	Contemporary Trade Directory Entries Name: Hyams Autolift Location: Little Meadow, Bilsham Road, Yapton, Arundel, West Sussex, BN18 0JY Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A3NE (S)	577	-	497634 101938
83	Contemporary Trade Directory Entries Name: Equipet Location: North End Rd, Yapton, Arundel, West Sussex, BN18 0DU Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	614	-	497817 103664
84	Contemporary Trade Directory Entries Name: Yapton Metal Co Location: Wayside, Burndell Road, Yapton, Arundel, West Sussex, BN18 0HP Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	621	-	498331 102996
84	Contemporary Trade Directory Entries Name: Burndell Location: Wayside, Burndell Road, Yapton, Arundel, West Sussex, BN18 0HP Classification: Salvage Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	621	-	498331 102996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Contemporary Trade Directory Entries Name: Barnham Car Centre Location: Unit 25, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	734	-	497932 103737
85	Contemporary Trade Directory Entries Name: Classic Perfections Location: Unit 25, Orchard Business Park, North End Road, Yapton, Arundel, BN18 0GA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	734	-	497932 103737
85	Contemporary Trade Directory Entries Name: Express Aftercare Services Location: Unit 5, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (N)	734	-	497980 103703
85	Contemporary Trade Directory Entries Name: Pptek Location: Unit 22, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (N)	746	-	497961 103732
85	Contemporary Trade Directory Entries Name: V & C Auto Sales Location: Unit 11, Orchard Business Park, North End Rd, Yapton, Arundel, West Sussex, BN18 0DS Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SW (N)	752	-	497961 103739
85	Contemporary Trade Directory Entries Name: C & W Seals Location: Unit 15-16, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Seal & Joint Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (N)	784	-	497961 103778
85	Contemporary Trade Directory Entries Name: Arun Ltd Location: Unit 18, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (N)	784	-	497961 103778
85	Contemporary Trade Directory Entries Name: V Dubz R Us Location: Unit 10, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (N)	784	-	497961 103778
85	Contemporary Trade Directory Entries Name: E M S Animal Feeds Location: Unit 11, Orchard Business Park, North End Road, Yapton, Arundel, BN18 0GA Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (N)	788	-	497999 103757
85	Contemporary Trade Directory Entries Name: B P S Garden Machinery Ltd Location: Unit 15-16, Orchard Business Park, North End Road, Yapton, Arundel, West Sussex, BN18 0GA Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (N)	794	-	498002 103762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	Contemporary Trade Directory Entries Name: Southdown Tractors Location: Burndell Road, Yapton, ARUNDEL, West Sussex, BN18 0HR Classification: Agricultural Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	756	-	498583 102578
87	Contemporary Trade Directory Entries Name: Arun Meat & Livestock Co Ltd Location: The Stedders, North End Road, Yapton, Arundel, West Sussex, BN18 0DT Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	783	-	497829 103843
88	Contemporary Trade Directory Entries Name: T J Waste & Recycling Location: Northwood farm, Burndell Rd, Yapton, Arundel, West Sussex, BN18 0HR Classification: Tyre Disposal Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	800	-	498542 102924
88	Contemporary Trade Directory Entries Name: Ryan Cars Ltd Location: Burndell Rd, Yapton, Arundel, West Sussex, BN18 0HP Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	803	-	498546 102924
88	Contemporary Trade Directory Entries Name: Bravura Services Location: Burndell Rd, Yapton, Arundel, West Sussex, BN18 0HR Classification: Clay & Clay Products Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	804	-	498564 102887
89	Contemporary Trade Directory Entries Name: Smiths Electrical Location: 54, Fordwater Gardens, Yapton, Arundel, West Sussex, BN18 0HU Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A15SW (E)	885	-	498628 102943
90	Fuel Station Entries Name: Central Garage Location: Main Road, Yapton, ARUNDEL, West Sussex, BN18 0EA Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NW (N)	187	-	497581 103297
91	Fuel Station Entries Name: Noble Autos Location: Burndell Road, Yapton, ARUNDEL, West Sussex, BN18 0HP Brand: Proteus Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	590	-	498299 103022
92	Points of Interest - Commercial Services Name: C K Mobile Mechanics Location: 40 The Millers, Yapton, Arundel, BN18 0LE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (E)	48	6	497721 102782
93	Points of Interest - Commercial Services Name: Arun Pest Control Service Location: 23 Briar Close, Church Road, Yapton, Arundel, BN18 0ES Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NE (NE)	368	6	497930 103285
93	Points of Interest - Commercial Services Name: Arun Pest Control Service Location: 23 Briar Close, Church Road, Yapton, Arundel, BN18 0ES Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NE (NE)	368	6	497930 103285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	Points of Interest - Commercial Services Name: Noble Autos Location: Georgedale, Burndell Road, Yapton, Arundel, BN18 0HP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (NE)	442	6	498145 103066
95	Points of Interest - Commercial Services Name: Hyams Autolift Location: Oaktrees Little Meadow, Bilsham Road, Yapton, Arundel, BN18 0JY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A3NE (S)	561	6	497677 101945
95	Points of Interest - Commercial Services Name: J Hyams Location: Little Meadow, Bilsham Road, Yapton, Arundel, BN18 0JY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A3NE (S)	577	6	497634 101938
95	Points of Interest - Commercial Services Name: Premier Car Valeting Location: Little Meadow, Bilsham Road, Yapton, Arundel, BN18 0JY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A3NE (S)	577	6	497634 101938
96	Points of Interest - Commercial Services Name: Yapton Metal Co Location: Wayside, Burndell Road, Yapton, Arundel, BN18 0HP Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A14SE (E)	621	6	498331 102996
97	Points of Interest - Commercial Services Name: Classic Perfections Location: Unit 25 Orchard Business Park, North End Road, Yapton, Arundel, BN18 0GA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	734	6	497932 103737
97	Points of Interest - Commercial Services Name: V Dubz R Us Ltd Location: Unit 10 Orchard Business Park, North End Road, Yapton, Arundel, BN18 0GA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (N)	784	6	497961 103778
98	Points of Interest - Manufacturing and Production Name: Works Location: BN18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	254	6	498080 102582
98	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	A9NW (SE)	262	6	498088 102581
99	Points of Interest - Manufacturing and Production Name: Works Location: BN18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (NE)	290	6	497974 103111
99	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	A14SW (NE)	291	6	497974 103112

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Points of Interest - Manufacturing and Production Name: Drove Lane Farm Location: Drove Lane, Main Road, Yapton, Arundel, BN18 0EB Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A12SE (W)	454	6	496945 102932
100	Points of Interest - Manufacturing and Production Name: Drove Lane Farm Location: Drove Lane Farm Drove Lane, Main Road, Yapton, Arundel, BN18 0EB Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A12SE (W)	454	6	496945 102932
101	Points of Interest - Manufacturing and Production Name: Tank Location: BN18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	647	6	497084 102147
101	Points of Interest - Manufacturing and Production Name: Tanks Location: BN18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	661	6	497066 102142
101	Points of Interest - Manufacturing and Production Name: Tank Location: BN18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (SW)	665	6	497067 102137
102	Points of Interest - Recreational and Environmental Name: Play Area Location: Main Road, BN18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14NW (NE)	382	6	498052 103161
102	Points of Interest - Recreational and Environmental Name: Play Area Location: Downview Way, BN18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14NW (NE)	411	6	498089 103150
102	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	440	6	498088 103215

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A8NE (SE)	0	8	497618 102798

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Arun District Council - Environmental Health Department Chichester District Council - Environmental Health Department	July 2013 July 2013	Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	January 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Arun District Council - Environmental Health Department Chichester District Council - Environmental Health Department	December 2014 October 2014	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Arun District Council - Environmental Health Department Chichester District Council - Environmental Health Department	December 2014 October 2014	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Arun District Council - Environmental Health Department Chichester District Council - Environmental Health Department	December 2014 October 2014	Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	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
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
Substantiated Pollution Incident Register Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	January 2016 January 2016	Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	January 2016	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	January 2016	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 2016	Quarterly

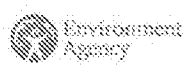
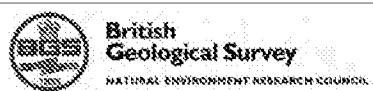
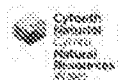
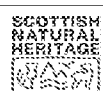
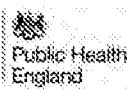
Agency & Hydrological	Version	Update Cycle
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
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	Annually

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	March 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	February 2016 February 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	January 2016 January 2016 January 2016	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Arun District Council - Technical Support Unit Chichester District Council - Environmental Health Department West Sussex County Council - Environment & Development	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Arun District Council - Technical Support Unit Chichester District Council - Environmental Health Department West Sussex County Council - Environment & Development	May 2000 May 2000 May 2000	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 - Sussex Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites 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	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Arun District Council - Technical Support Unit Chichester District Council - Planning Department West Sussex County Council - Environment & Development	February 2016 February 2016 October 2006	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Arun District Council - Technical Support Unit Chichester District Council - Planning Department West Sussex County Council - Environment & Development	February 2016 February 2016 October 2006	Annual Rolling Update Annual Rolling Update 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	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	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	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
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	March 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	March 2016	Quarterly
Points of Interest - Education and Health PointX	March 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2016	Quarterly
Points of Interest - Public Infrastructure PointX	March 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

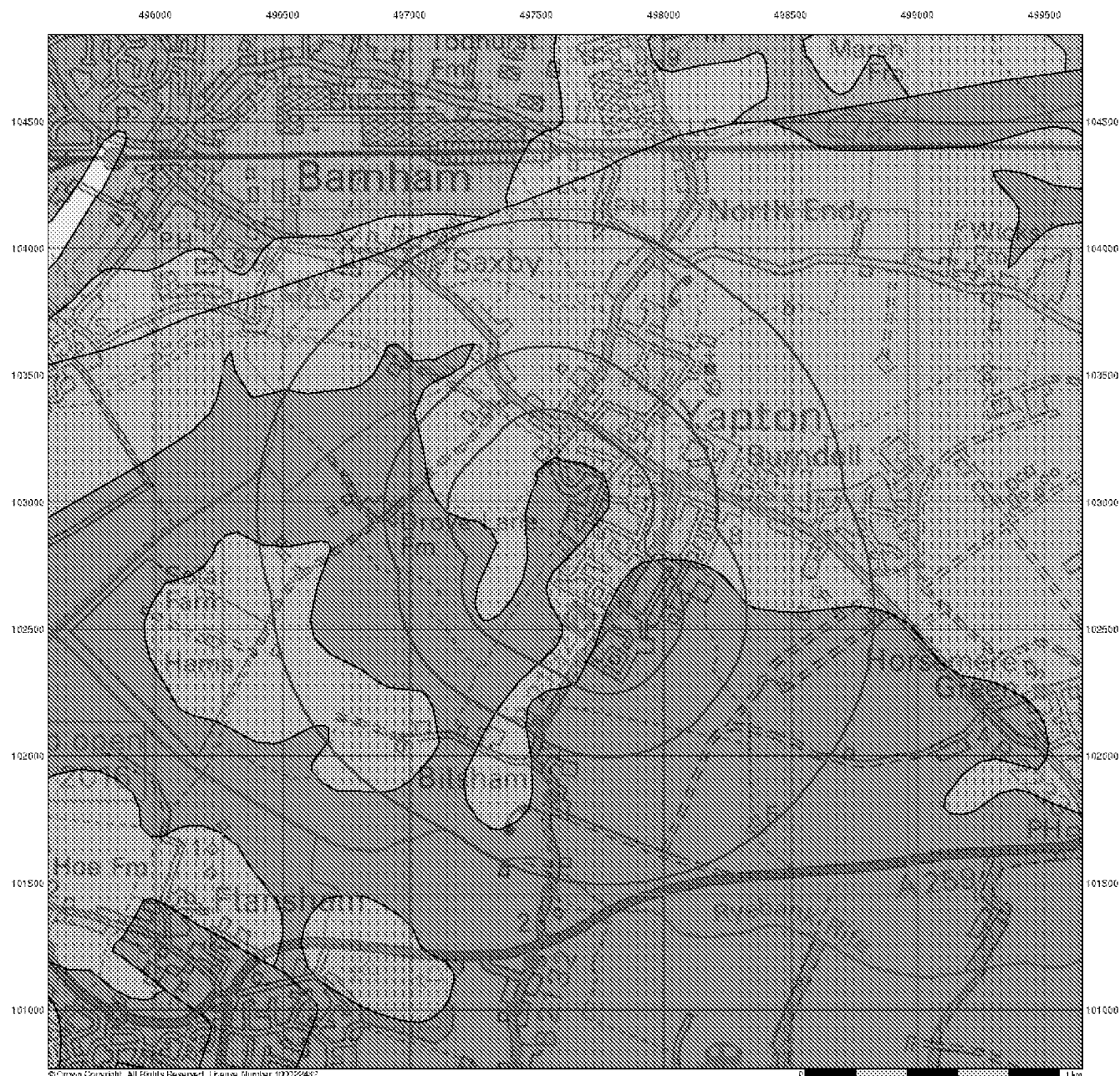
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	June 2015	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas Natural England	April 2016	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2016	Bi-Annually
Marine Nature Reserves Natural England	April 2016	Bi-Annually
National Nature Reserves Natural England	April 2016	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	April 2016	Bi-Annually
Special Protection Areas Natural England	April 2016	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address
2	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY
4	Arun District Council - Technical Support Unit Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF
5	West Sussex County Council - Environment & Development County Hall, Tower hall, Chichester, West Sussex, PO19 1RH
6	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY
7	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP
8	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT
9	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD

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



© Crown Copyright. All Rights Reserved. License Number 100122462



Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

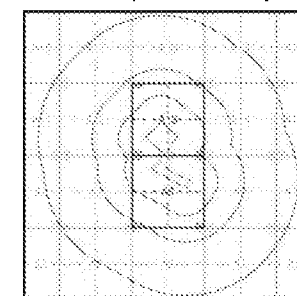
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A

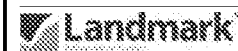


Order Details

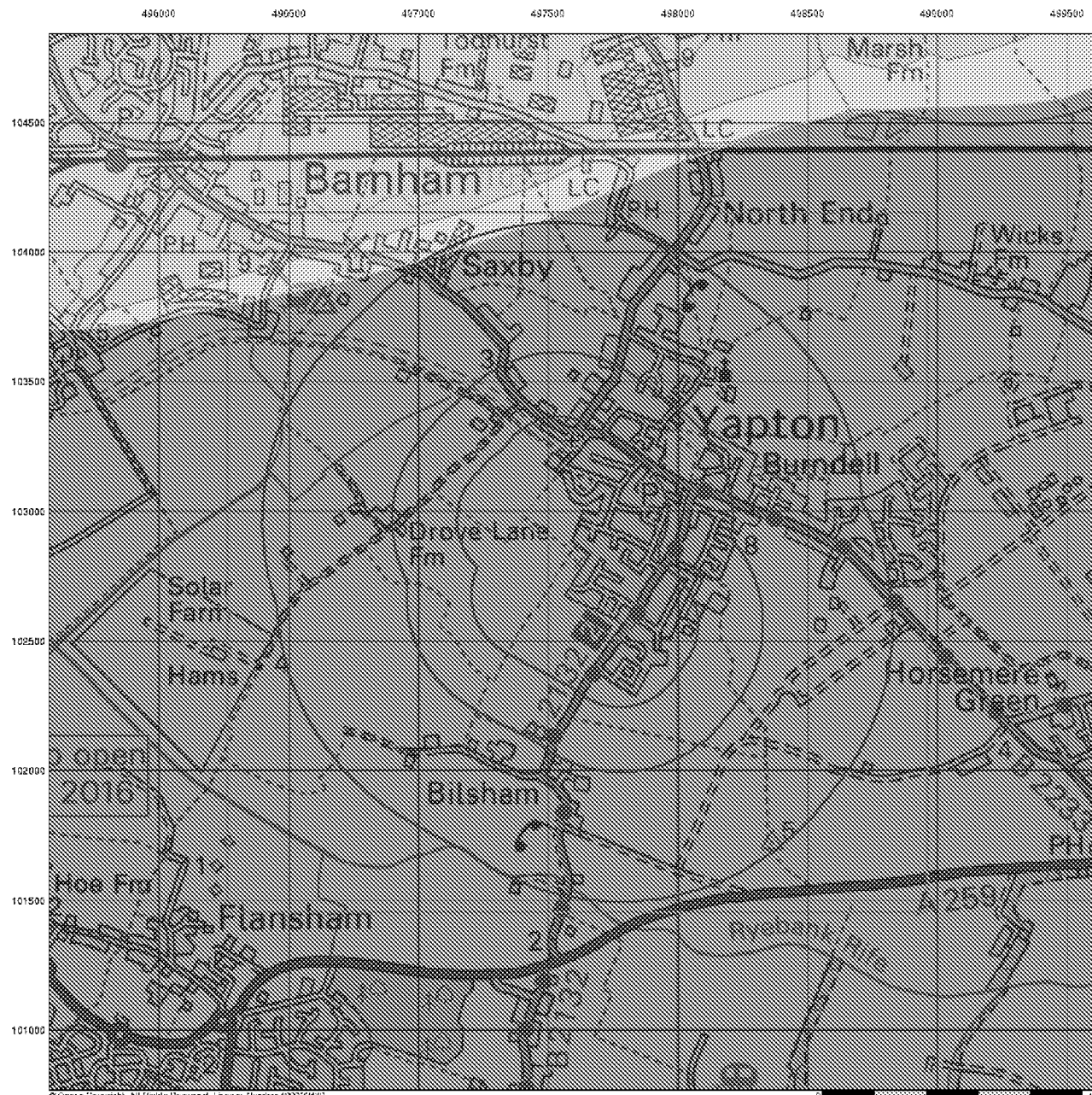
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bisham Road, Yapton, Arundel, BN18 0HB



Tel: 01444 544 5552
 Fax: 01444 544 5551
 Web: www.environment.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



Bedrock Aquifer Designation

General

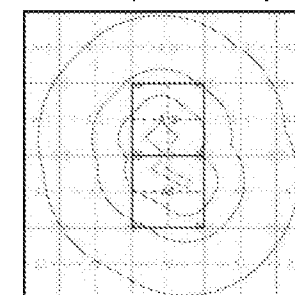
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

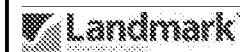


Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 01444 544 0052
 Fax: 01444 544 0051
 Web: www.environment.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



Superficial Aquifer Designation

General

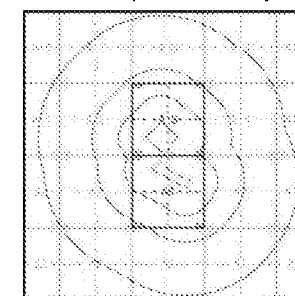
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

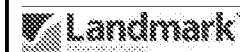


Order Details

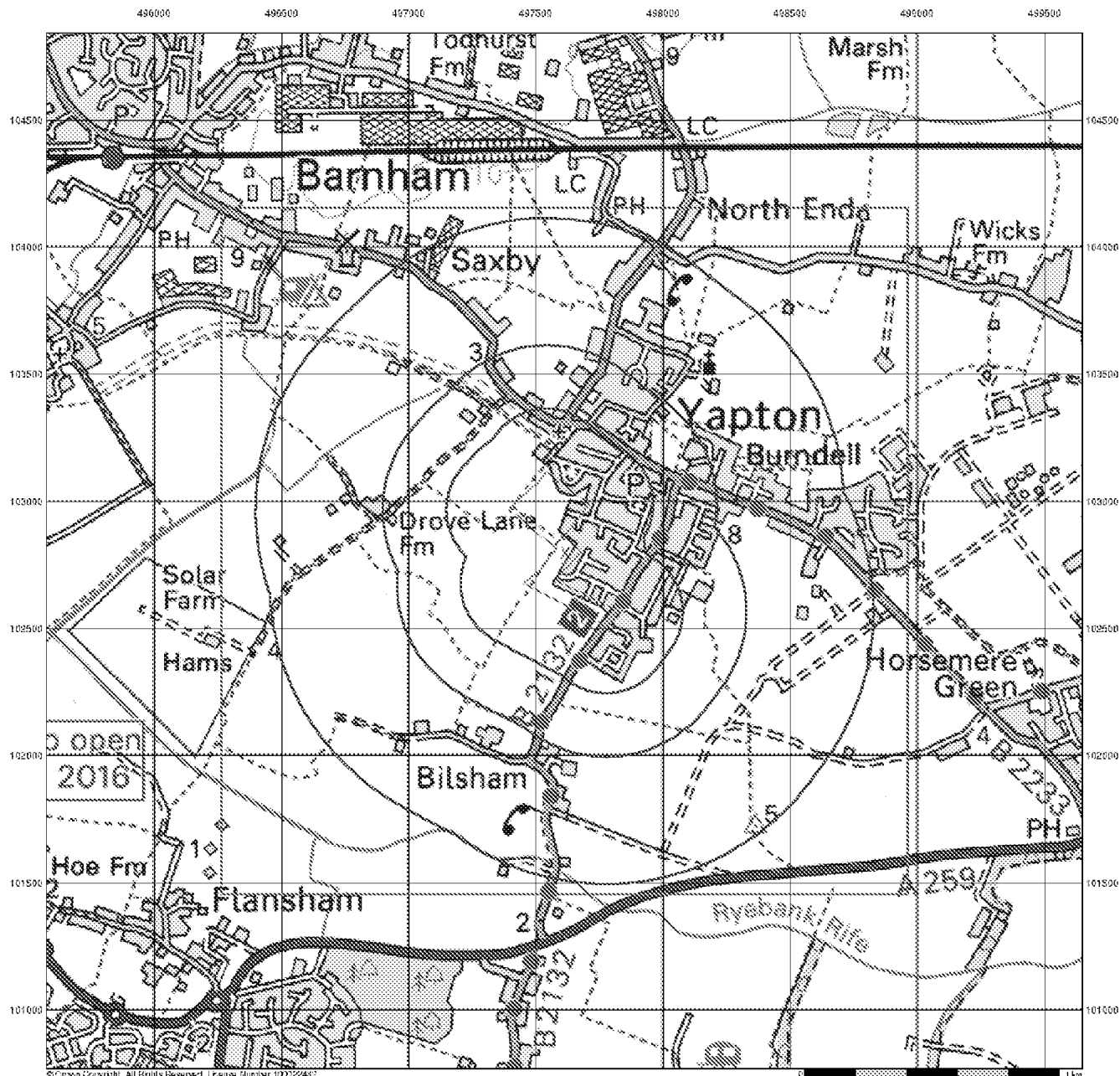
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 01444 544 0052
 Fax: 01444 544 0051
 Web: www.environment.co.uk



Source Protection Zones

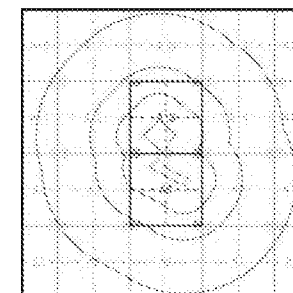
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A

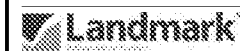


Order Details

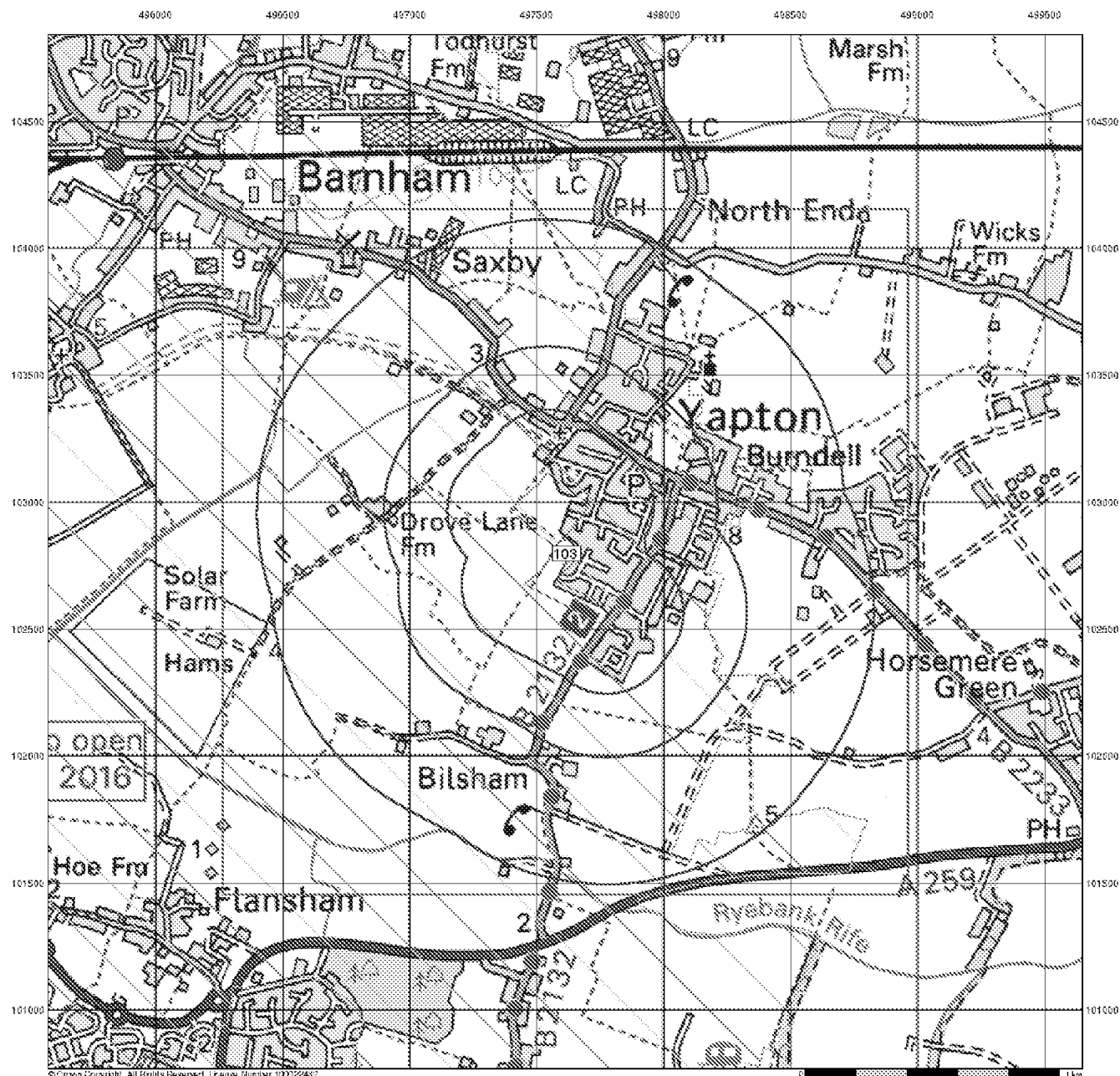
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 01344 544 0050
 Fax: 01344 544 5551
 Web: www.environmental.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



Sensitive Land Uses

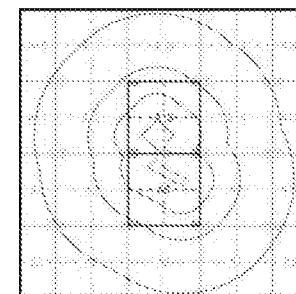
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

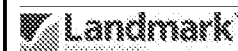


Order Details

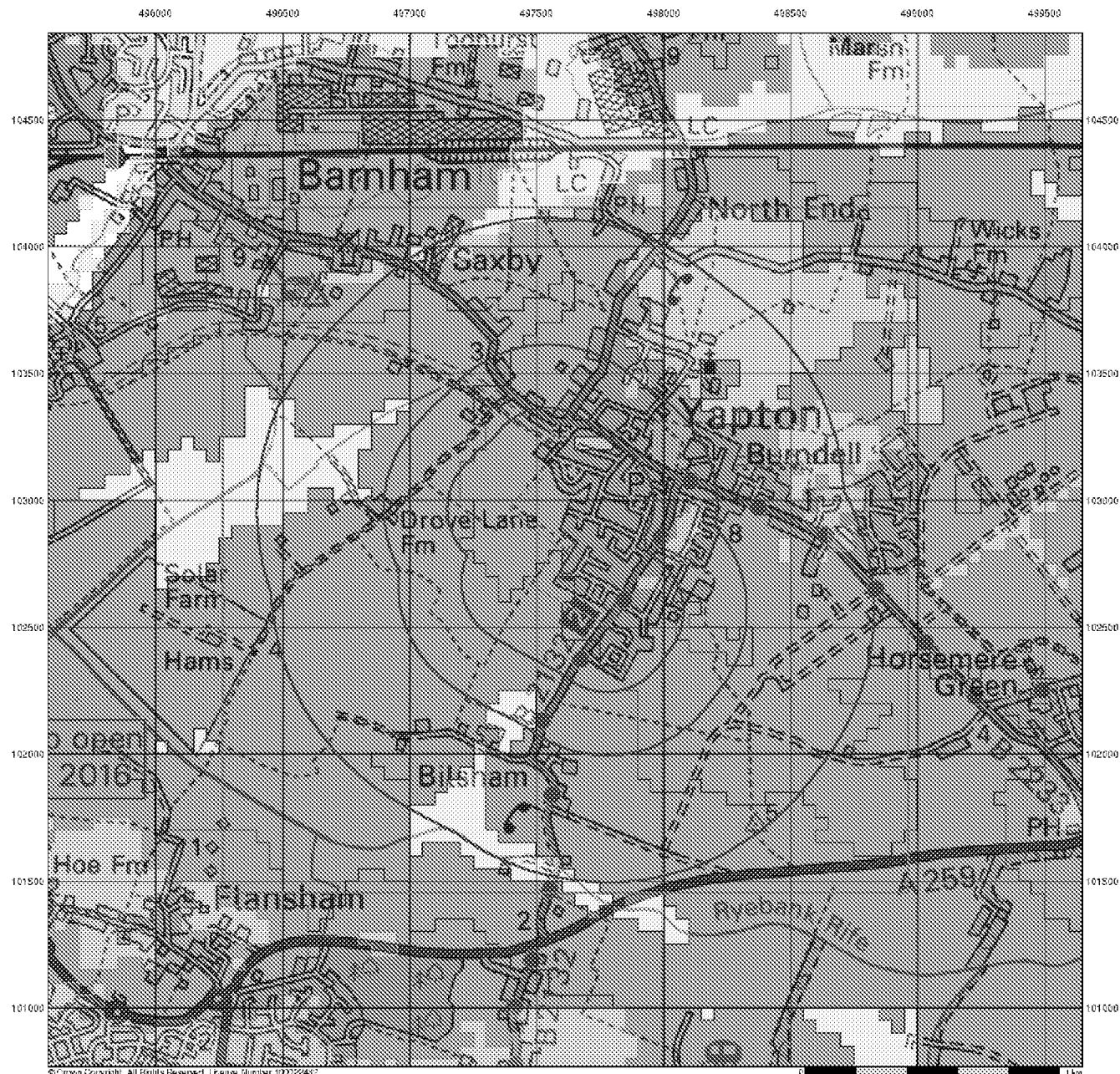
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 01344 544 0052
 Fax: 01344 544 5551
 Web: www.environmental.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



BGS Flood GFS Data

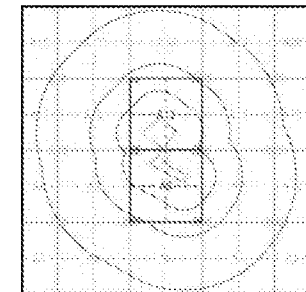
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A

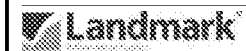


Order Details

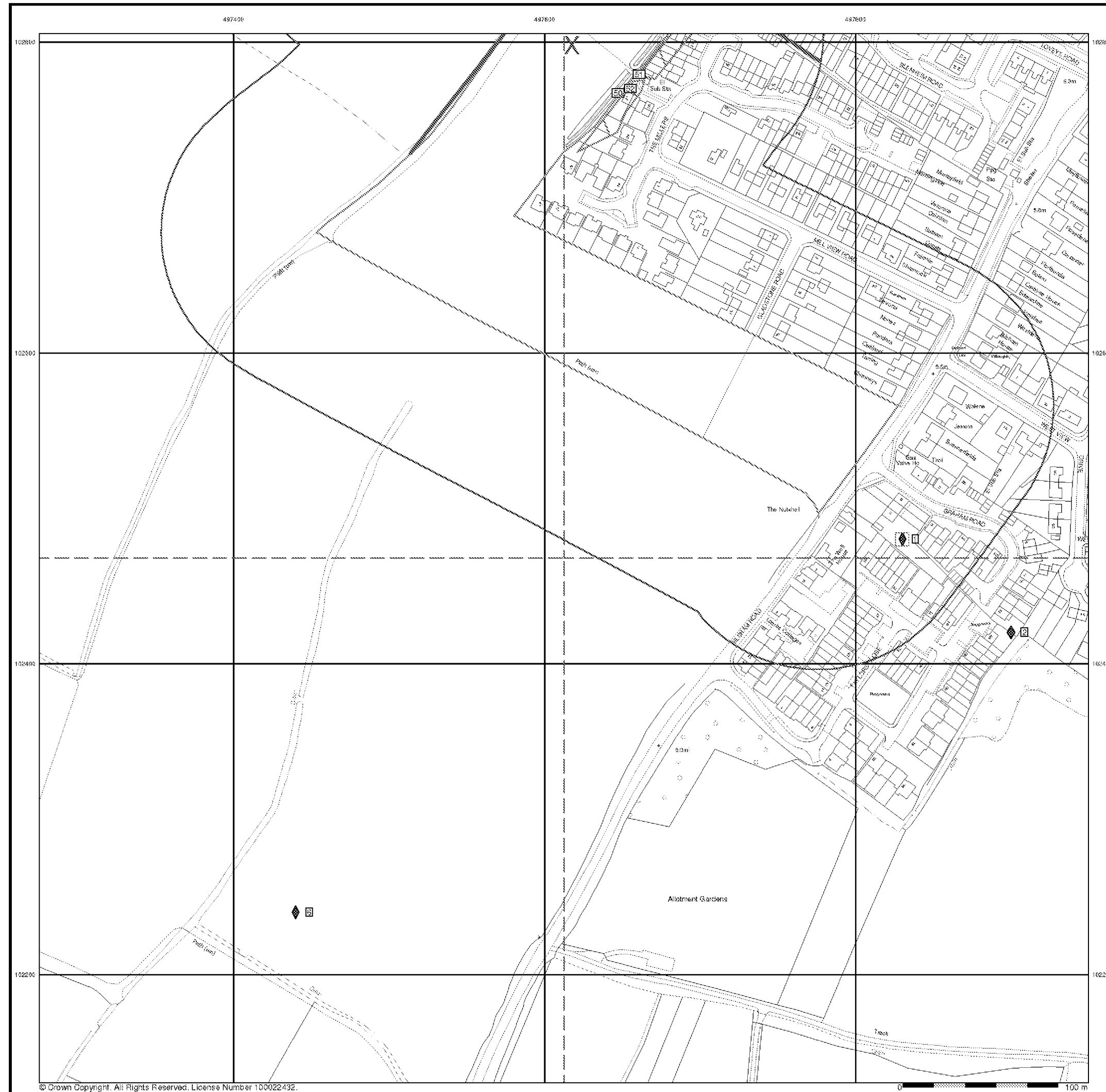
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsam Road, Yapton, Arundel, BN18 0HB



Tel: 01444 544 0052
 Fax: 01444 544 0051
 Web: www.environment.co.uk



General

- Specified Site
- Specified Buffer(s)
- Several of Type at Location
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Agency and Hydrological

- Bearing Reference Point
- Overhead Transmission Line

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A8

Order Details

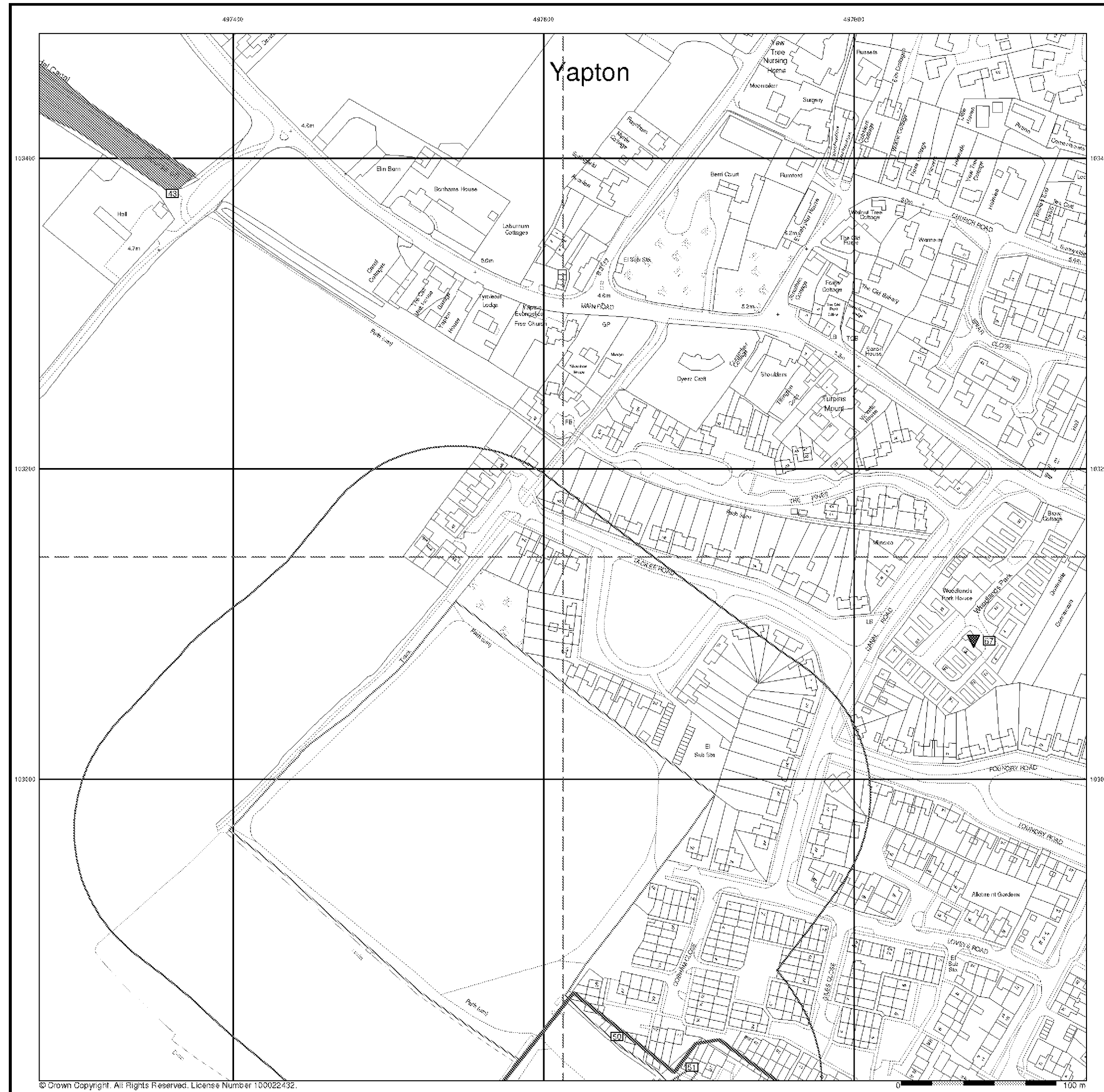
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB

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

A Landmark Information Group Service v49.0 15-Apr-2016 Page 1 of 2



General

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

Agency and Hydrological

- Several of Type at Location
- Pylon
- Overhead Transmission Line
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13

Order Details

Order Number:	84657229_1_1
Customer Ref:	BRD2693
National Grid Reference:	497620, 102800
Slice:	A
Site Area (Ha):	8.6
Plot Buffer (m):	100

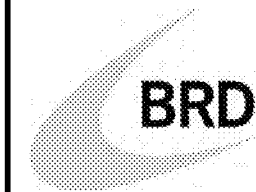
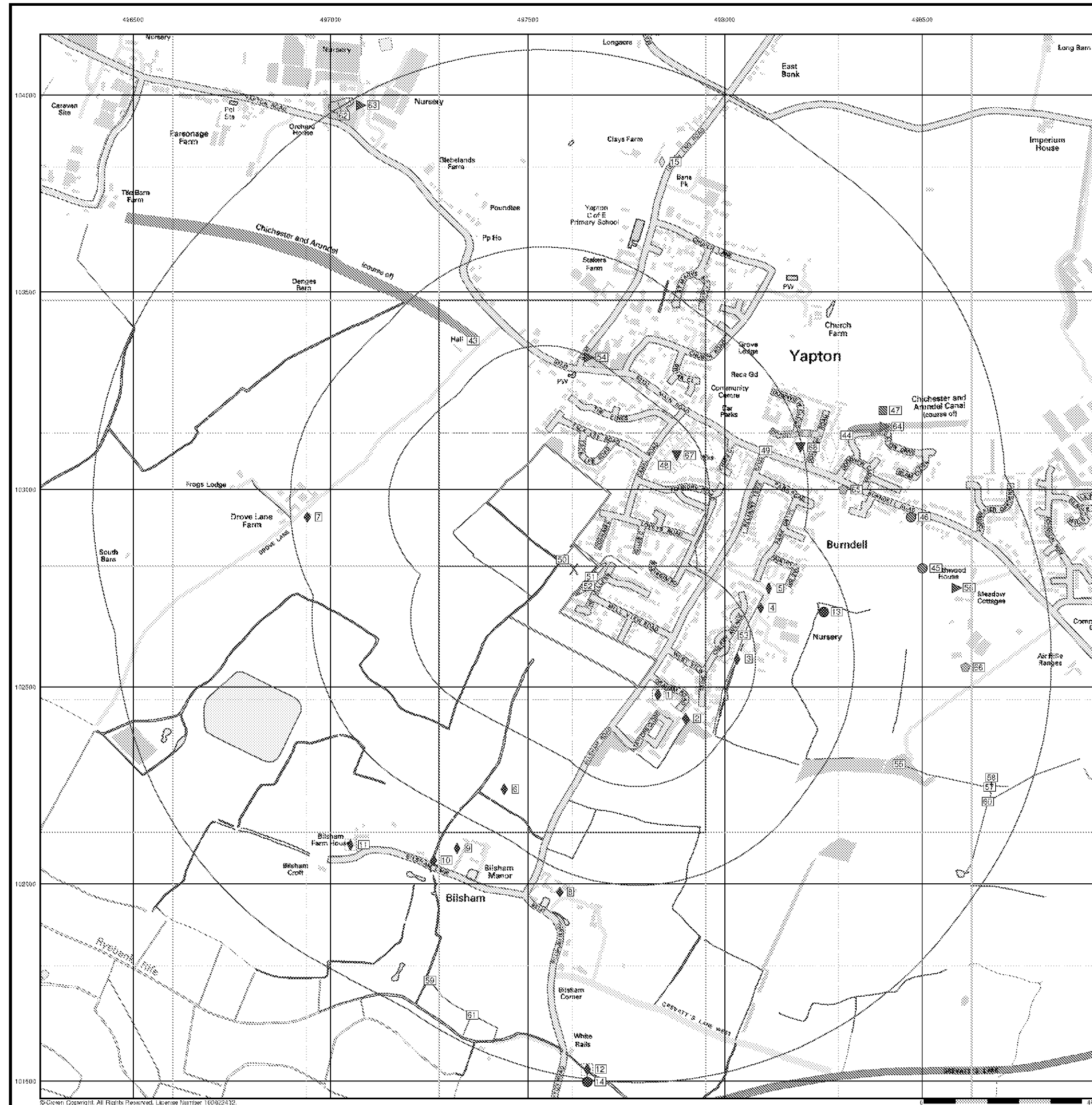
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB

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

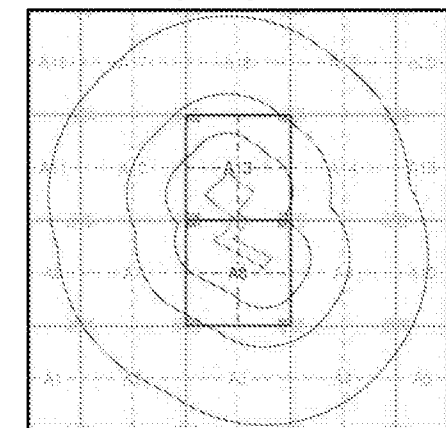
ARUN DISTRICT COUNCIL Y/12/22/DC

A Landmark Information Group Service v49.0 15-Apr-2016 Page 2 of 2



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

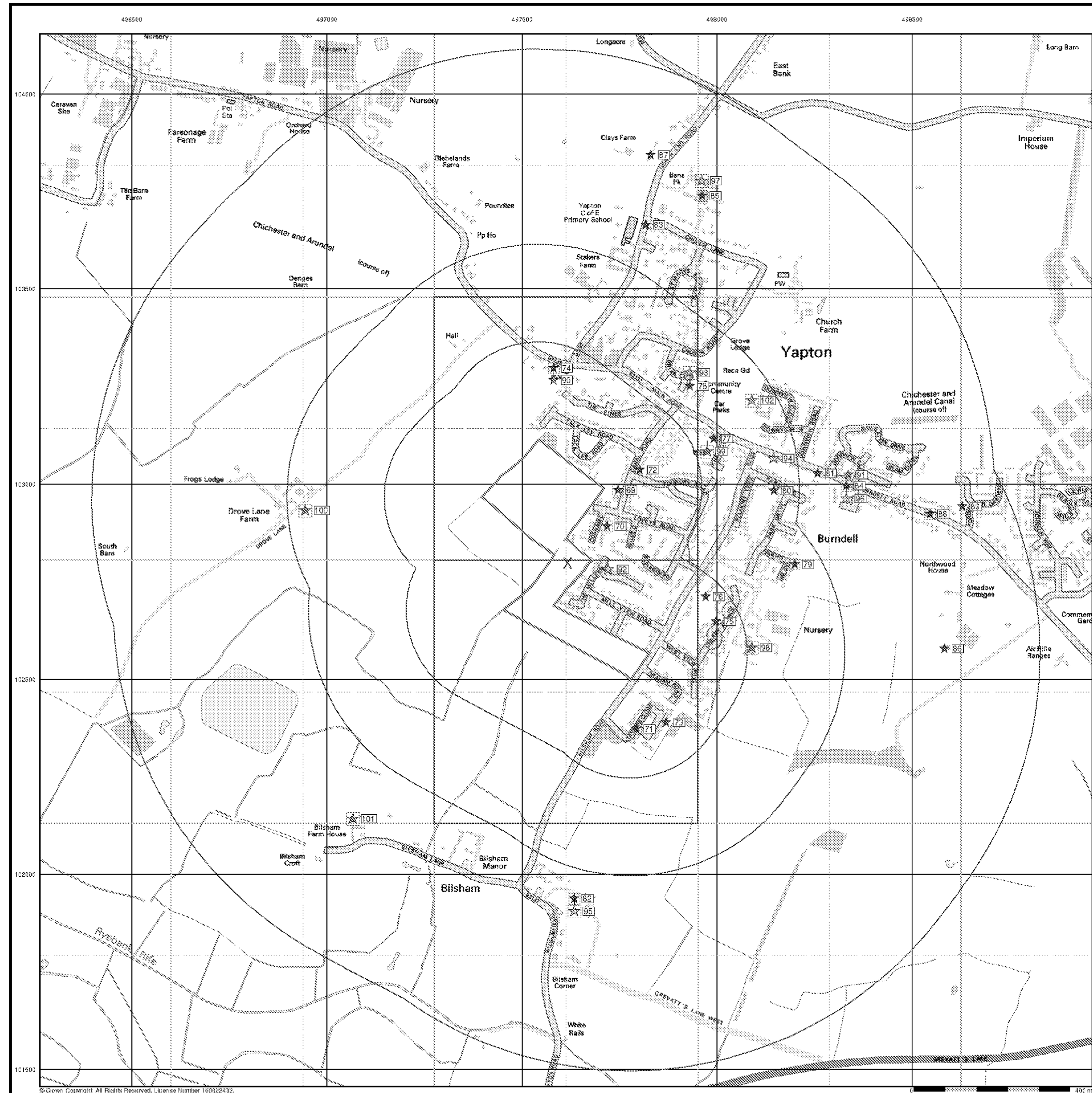
Site Sensitivity Map - Slice A



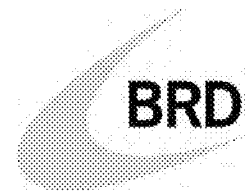
Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details
 Land at Bilsham Road, Yapton, Arundel, BN18 0HB



© Crown Copyright. All Rights Reserved. License Number 100022432.



Industrial Land Use Map

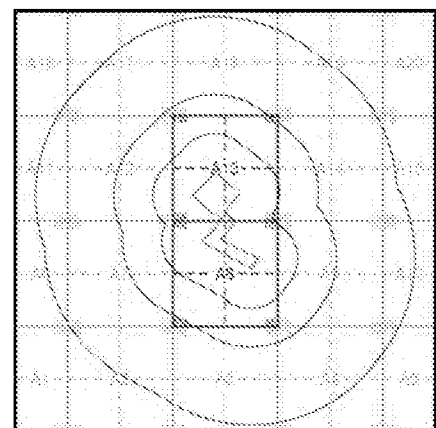
General

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

Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry
- Gas Pipeline
- ★ Points of Interest - Commercial Services
- ★ Points of Interest - Education and Health
- ★ Points of Interest - Manufacturing and Production
- ★ Points of Interest - Public Infrastructure
- ★ Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

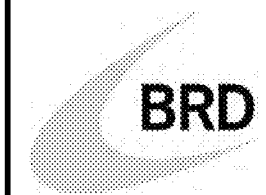
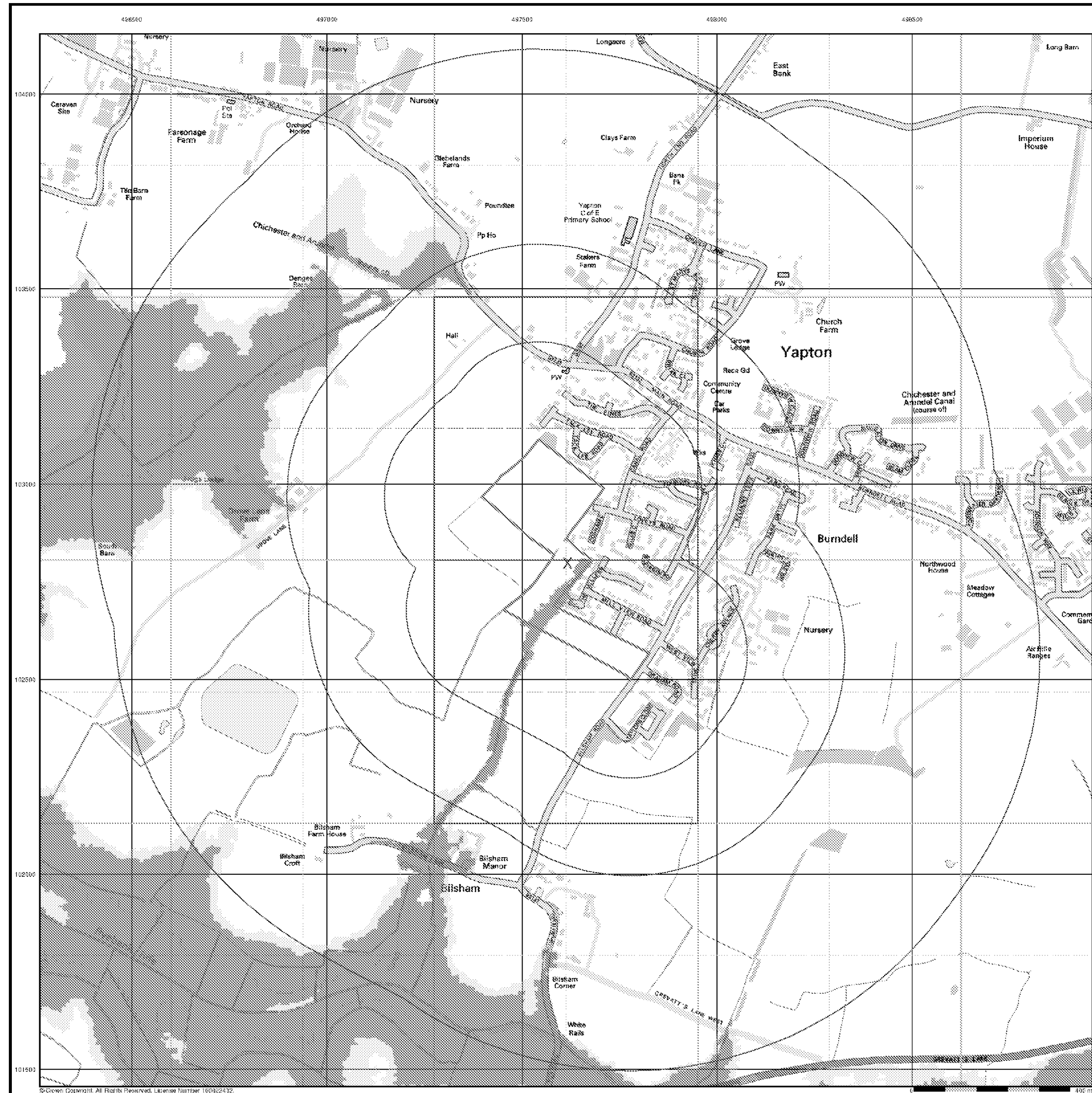
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
 Fax: 0844 844 9951
 Web: www.envisirocheck.co.uk



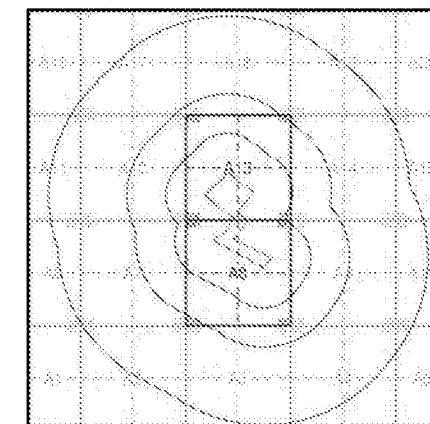
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

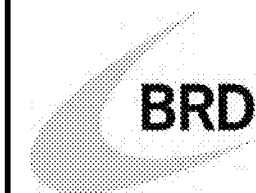
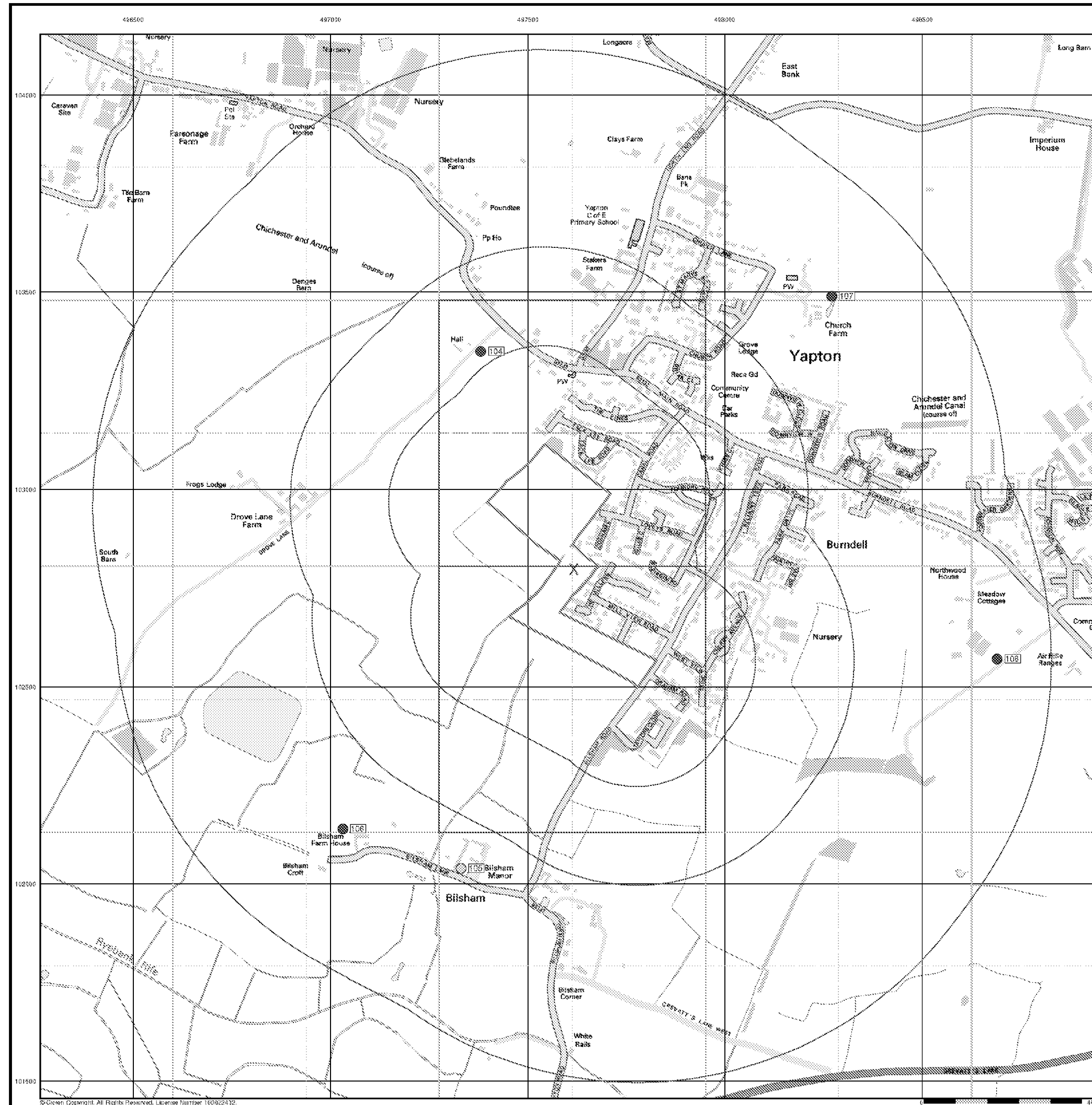
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

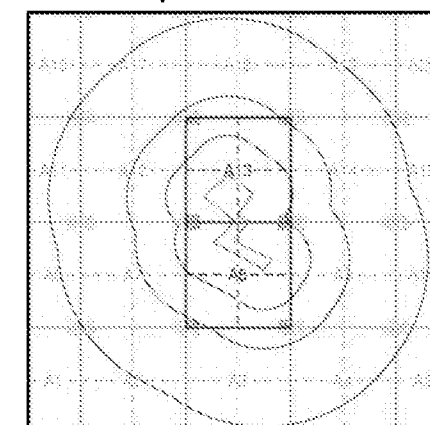
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

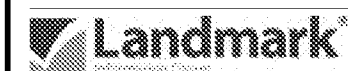


Order Details

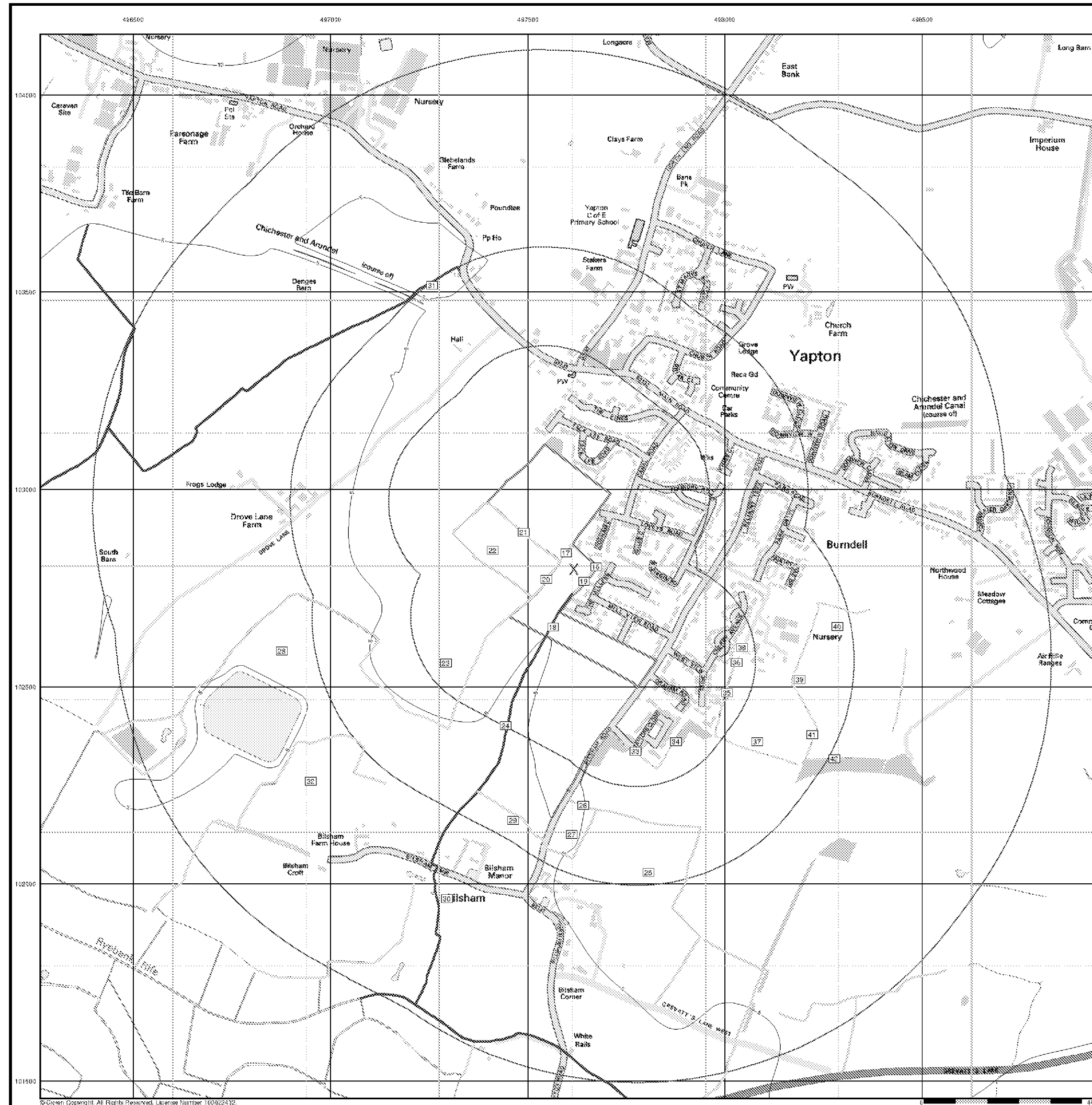
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

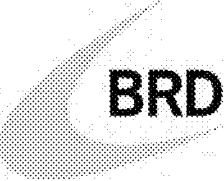
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk





General

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

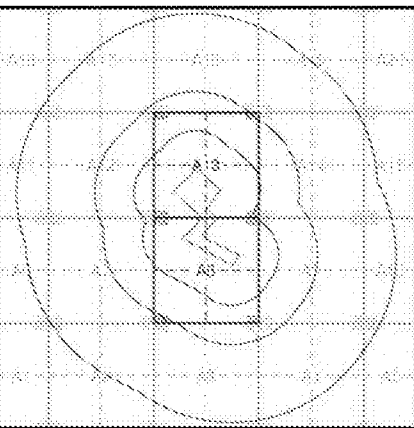
Detailed River Network Data

Primary River	Extended Culvert (greater than 50m)
Secondary River	Underground River (inferred)
Tertiary River	Underground River (local knowledge)
Canal	Downstream of High Water Mark
Canal Tunnel	Downstream of Seaward Extension
Undefined River	Not assigned River feature
Lake/Reservoir	
Offline Drainage Feature	

Contours (height in metres)

Standard Contour	Mean Low Water
Master Contour	Mean High Water
Spot Height	

EA/NRW Detailed River Network Map - Slice A



Order Details

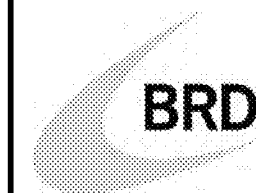
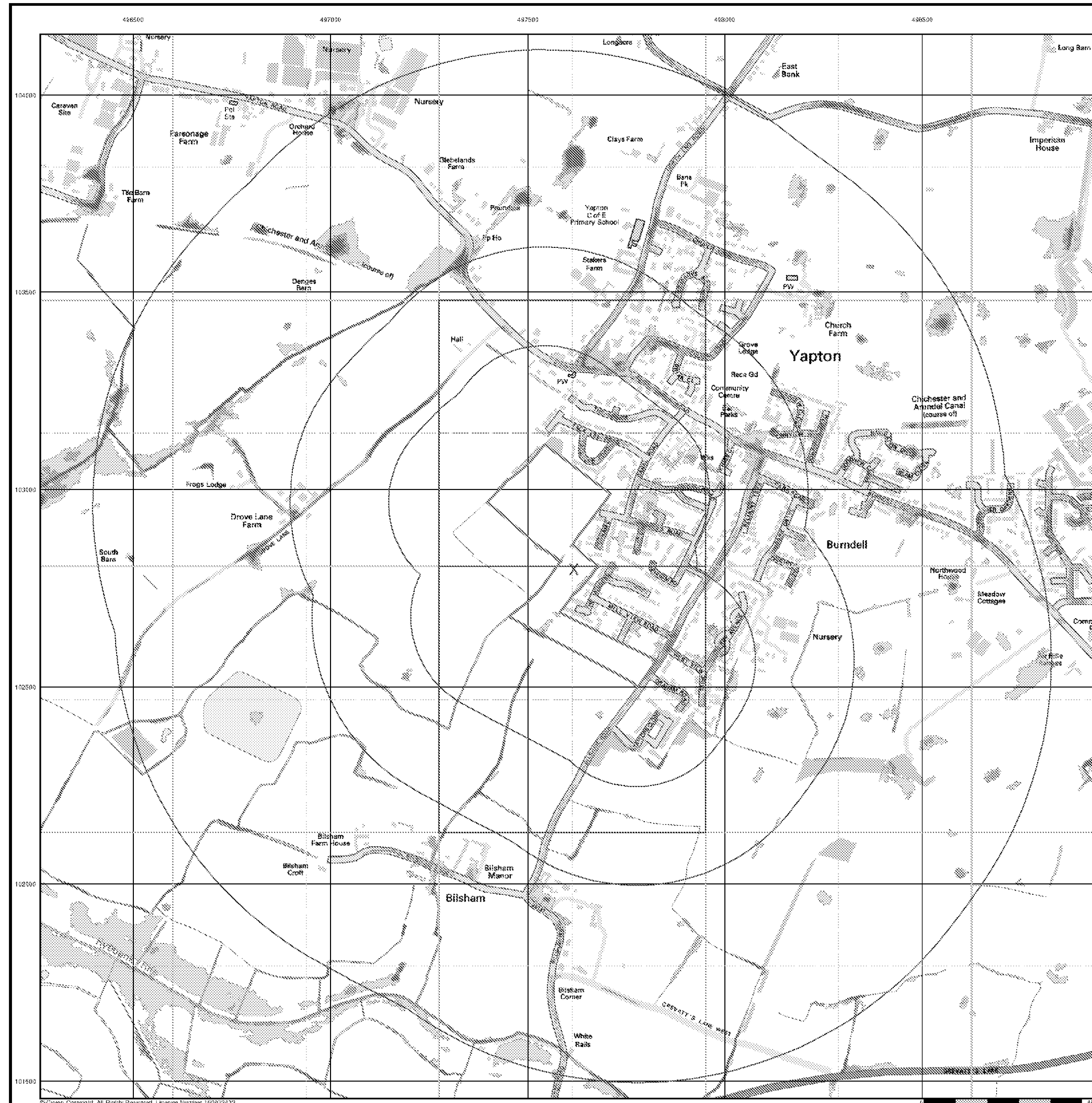
Order Number:	84657229_1_1
Customer Ref:	BRD2693
National Grid Reference:	497620, 102800
Slice:	A
Site Area (Ha):	8.6
Search Buffer (m):	1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0844 844 9852
Fax: 0844 844 9951
Web: www.envisirocheck.co.uk



General

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

Risk of Flooding from Surface Water

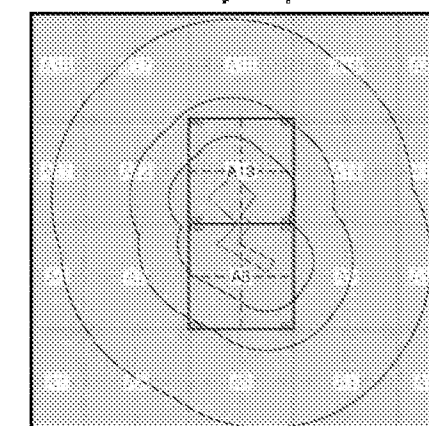
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A

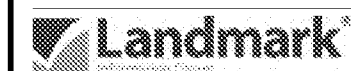


Order Details

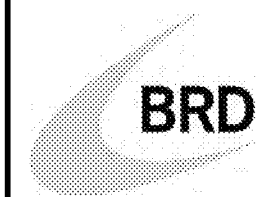
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

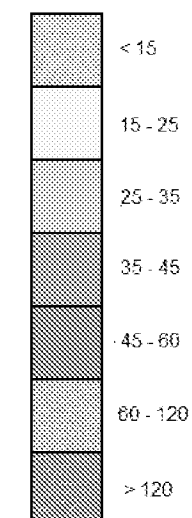


General

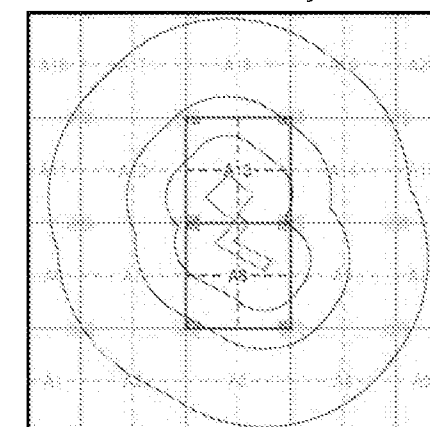
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

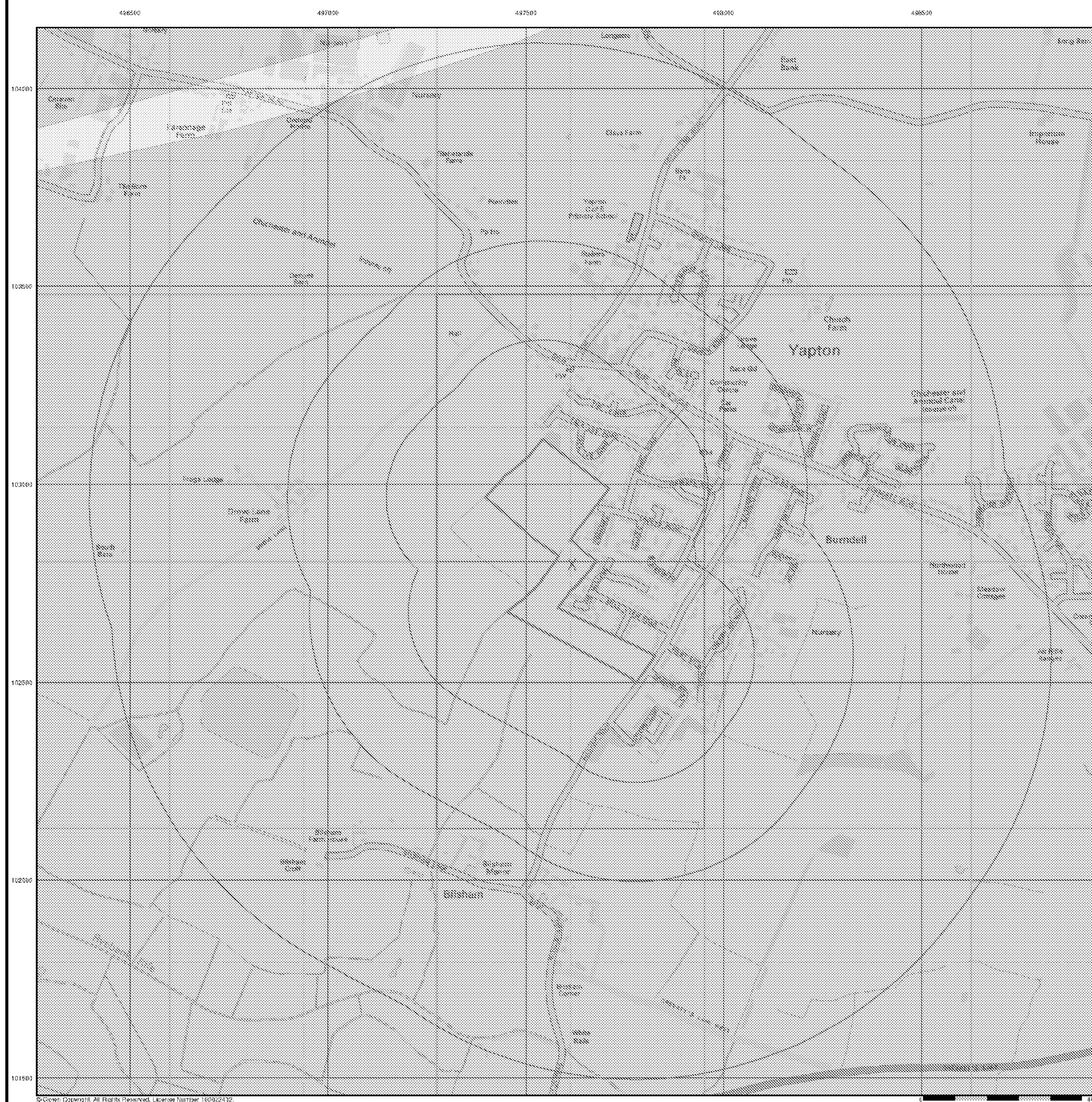
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

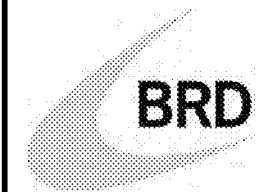
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



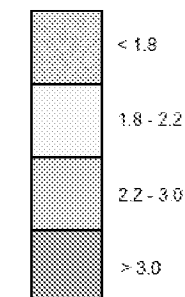


General

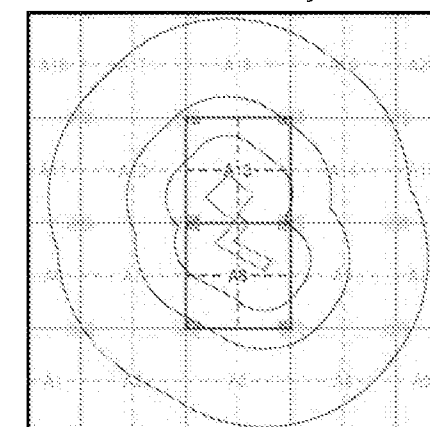
○ Specified Site ○ Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

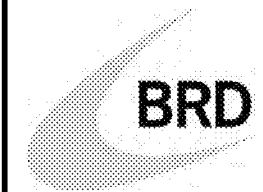
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

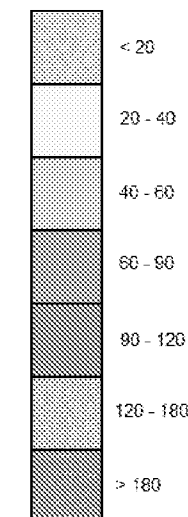


General

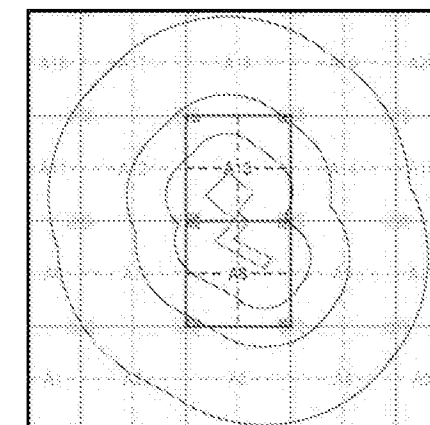
○ Specified Site ○ Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

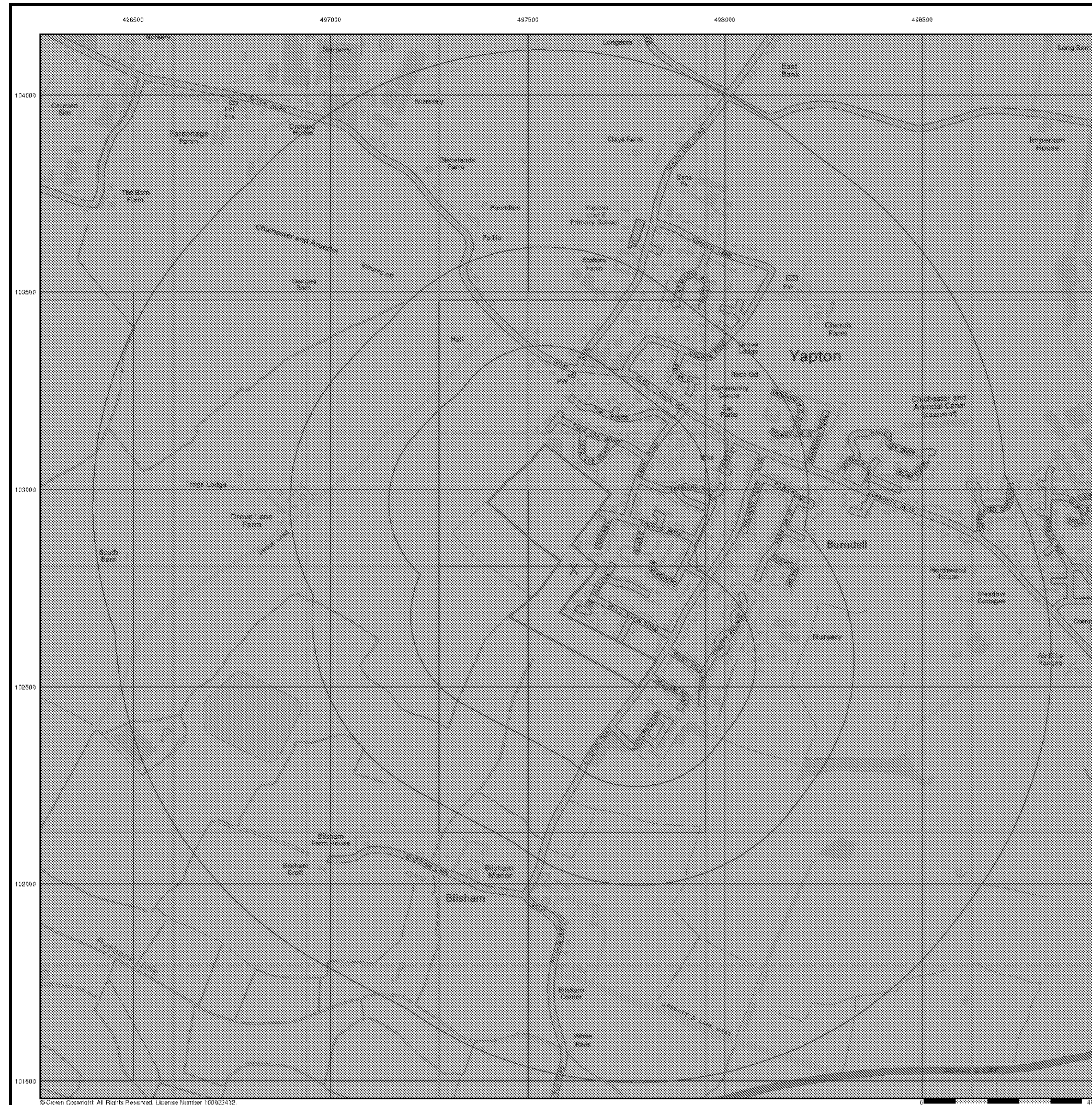
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

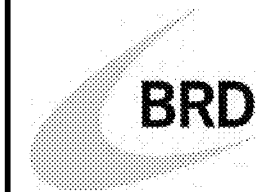
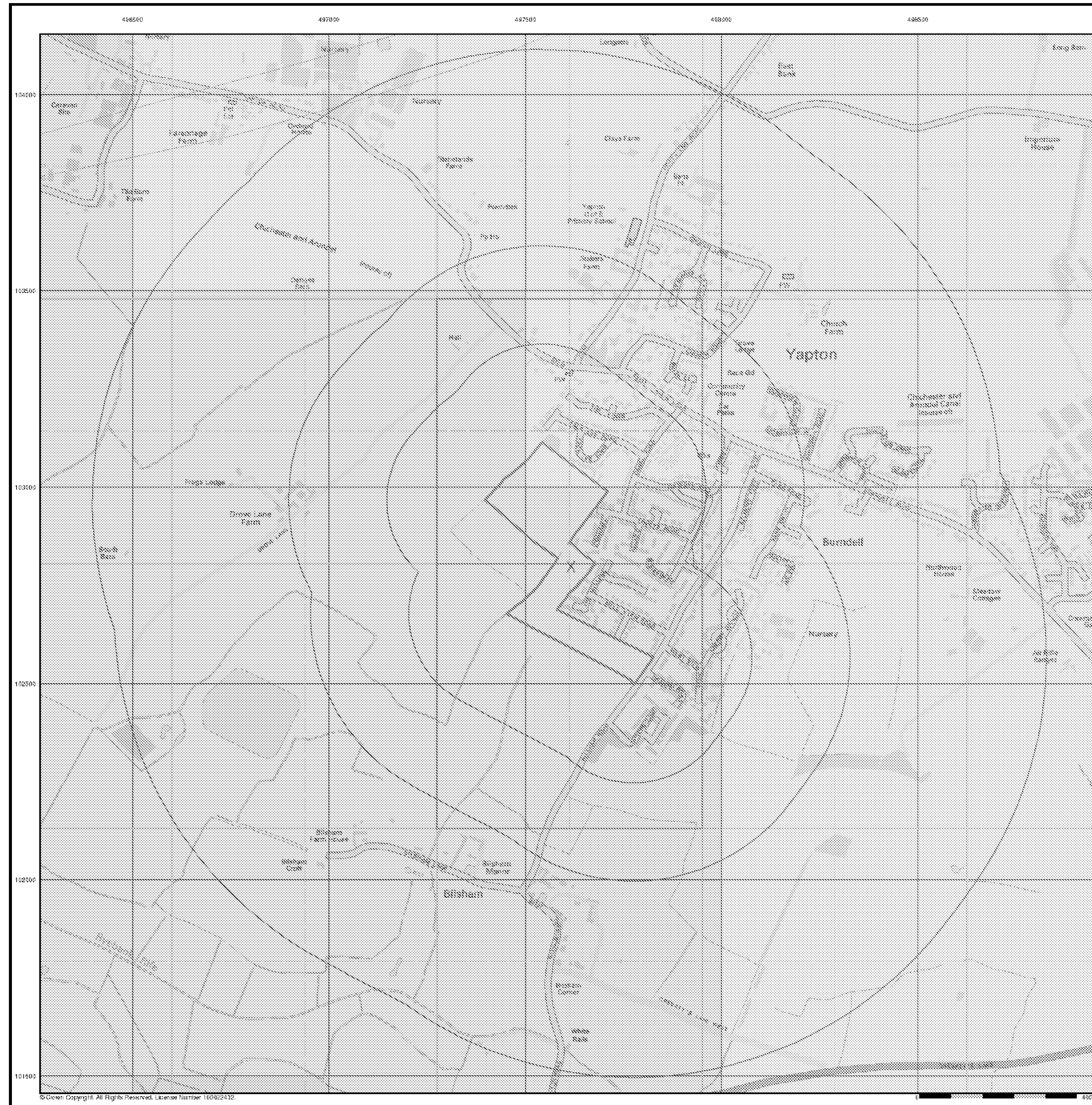
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



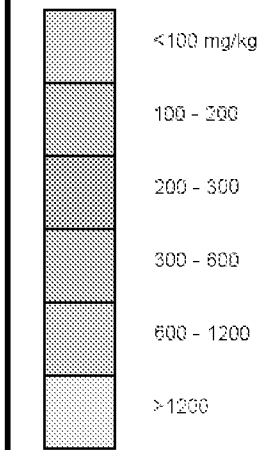


General

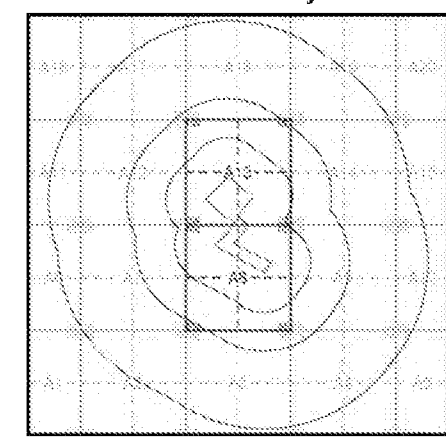
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

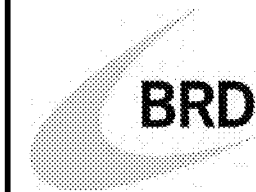
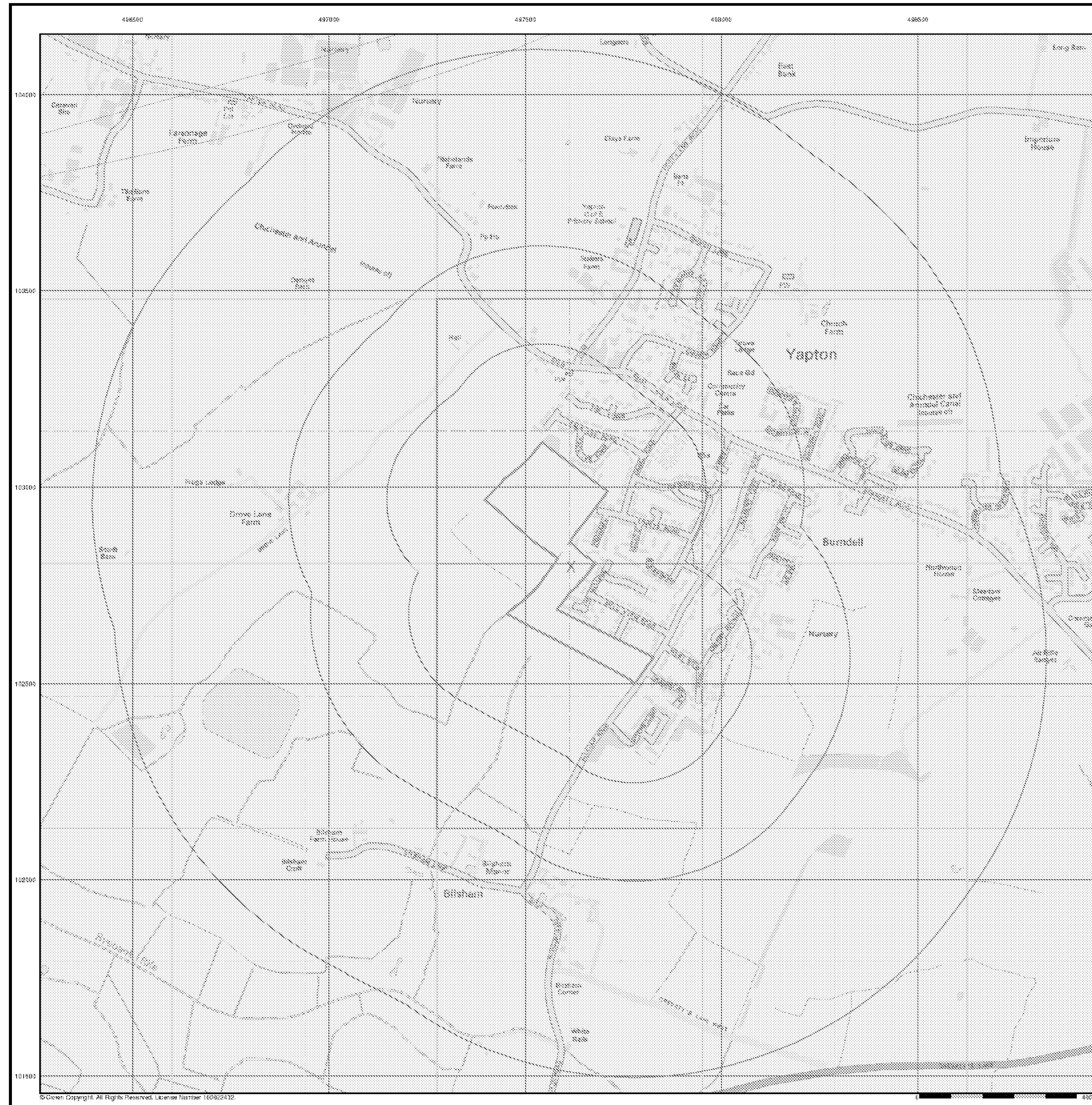
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

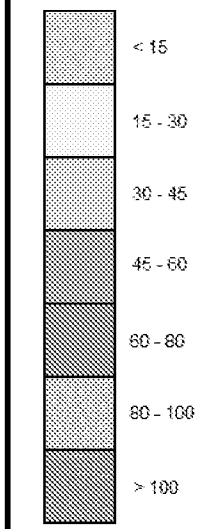


General

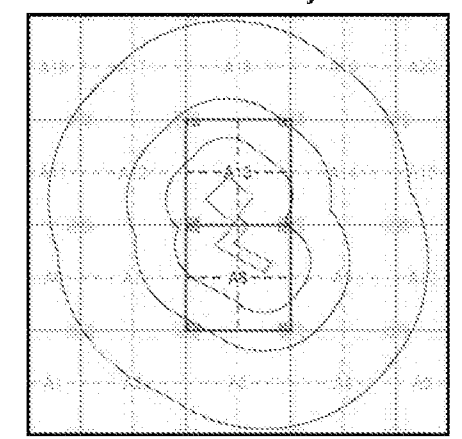
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

84657229_1_1

Customer Reference:

BRD2693

National Grid Reference:

497620, 102800

Slice:

A

Site Area (Ha):

8.6

Search Buffer (m):

1000

Site Details:

Land at Bilsham Road

Yapton

Arundel

BN18 0HB

Client Details:

Ms A Stratford

BRD Environmental Ltd

Hawthorne Villa

1 Old Parr Road

Banbury

Oxfordshire

OX16 5HT

Prepared For:

Gleeson Developments

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	4
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	5
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	9
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	10
Data Suppliers	12
Useful Contacts	13

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, and the Environment Agency/Natural Resources Wales, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

© Copyright Peter Brett Associates LLP & DCLG 2011. All rights reserved.

The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.



Report Version v50.0

Contents

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	1	
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		1	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3		1	1	
Potentially Infilled Land (Water)	pg 3	1	4		9

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
Brine Compensation Area			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims	pg 4		1	n/a	n/a
Subsidence Investigations	pg 4		2	n/a	n/a
Motion Map Data (1:2,500)					
Motion Map (100m)	pg 5		80	n/a	n/a

Report Version v50.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Burndell Brick Yard Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157582 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (NE)	195	1	497877 103090
2	BGS Recorded Mineral Sites Site Name: Burndell Brick Field Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157583 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (NE)	495	1	498190 103111
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				



Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Extractive Industries or Potential Excavations from 1950-1980 Use: Well First Map Published 1975 Date: Last Map Published N/A Date:	A8NE (SE)	24	-	497784 102475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (NE)	144	-	497846 103060
5	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (NE)	407	-	498102 103100
6	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SW (NW)	0	-	497588 102822
7	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497661 102779
8	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497653 102770
9	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A9NW (E)	183	-	498049 102631
10	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A13NE (N)	247	-	497652 103335
11	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A9SE (SE)	668	-	498441 102303
12	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A9NE (E)	779	-	498583 102750
13	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	903	-	498671 102245
14	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	906	-	498675 102248
15	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A2SE (S)	908	-	497252 101755
16	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A10SW (SE)	913	-	498667 102209
17	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A3SW (S)	928	-	497360 101668
18	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	977	-	497033 103948
19	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	980	-	497073 103975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
20	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
21	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
22	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
23	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
24	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
	Subsidence Investigations Site Investigation 20th July 2004 Date: Root Survey: No CCTV Drain Survey: Yes Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 8th October 2014 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Insurance Claims Case Date: 17th May 2007 Movement Trend No significant movement (< 0.50mm) Indication: Damage Category 2 - up to 5mm Classification:			-	

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Motion Map Average Velocity 0.2 Gradient (mmyear):	A8NE (SE)	4	-	497750 102608
25	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (SE)	5	-	497753 102608
26	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (N)	10	-	497633 102854
26	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (N)	11	-	497631 102858
27	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (S)	17	-	497630 102721
27	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (S)	21	-	497630 102717
28	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (S)	18	-	497624 102686
29	Motion Map Average Velocity -0.7 Gradient (mmyear):	A8NE (SE)	19	-	497647 102734
30	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	19	-	497655 102886
30	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	22	-	497659 102885
30	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	22	-	497656 102882
31	Motion Map Average Velocity 0.9 Gradient (mmyear):	A13SW (N)	20	-	497601 103095
31	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SW (N)	25	-	497605 103099
31	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SW (N)	28	-	497605 103103
32	Motion Map Average Velocity -0.8 Gradient (mmyear):	A13SE (NE)	27	-	497730 102972
33	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	28	-	497853 102556
34	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	29	-	497691 102835
34	Motion Map Average Velocity -0.3 Gradient (mmyear):	A13SE (NE)	31	-	497686 102840
34	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	32	-	497690 102839
35	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (SE)	31	-	497770 102629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	32	-	497773 102628
35	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (SE)	35	-	497770 102633
35	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	36	-	497772 102633
36	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	33	-	497681 102897
36	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	33	-	497679 102894
37	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	33	-	497671 102883
38	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	41	-	497703 102840
38	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	45	-	497704 102844
38	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	48	-	497705 102848
39	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (N)	41	-	497707 103042
39	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (N)	42	-	497710 103041
40	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	44	-	497754 102988
41	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	53	-	497722 102918
41	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	55	-	497727 102920
41	Motion Map Average Velocity 0.6 Gradient (mmyear):	A13SE (NE)	56	-	497725 102917
41	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	56	-	497723 102913
41	Motion Map Average Velocity 0.6 Gradient (mmyear):	A13SE (NE)	58	-	497727 102916
41	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	59	-	497726 102913
42	Motion Map Average Velocity -0.3 Gradient (mmyear):	A8NE (SE)	54	-	497774 102652
43	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	55	-	497705 102856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	56	-	497700 102861
43	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	57	-	497702 102861
43	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	59	-	497706 102860
43	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	60	-	497710 102859
43	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	62	-	497705 102864
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	63	-	497709 102863
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	64	-	497711 102863
43	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	66	-	497706 102868
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	66	-	497715 102862
43	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	67	-	497710 102867
43	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	68	-	497711 102867
43	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	70	-	497716 102866
44	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	57	-	497721 102910
44	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	57	-	497717 102906
44	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	59	-	497720 102906
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497725 102909
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497723 102905
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497719 102902
44	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	64	-	497722 102901
45	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (SE)	58	-	497844 102622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	61	-	497842 102627
46	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	60	-	497680 102711
46	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	60	-	497678 102708
47	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	60	-	497701 102865
47	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	64	-	497703 102868
48	Motion Map Average Velocity 0.1 Gradient (mmyear):	A8NE (SE)	62	-	497880 102599
48	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	64	-	497879 102603
48	Motion Map Average Velocity 0.1 Gradient (mmyear):	A8NE (SE)	65	-	497884 102598
49	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	66	-	497714 102887
49	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	67	-	497713 102883
49	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	68	-	497717 102886
49	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	70	-	497716 102882
49	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (NE)	72	-	497716 102878
49	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	72	-	497716 102878
50	Motion Map Average Velocity -1.1 Gradient (mmyear):	A8NE (SE)	83	-	497896 102611
50	Motion Map Average Velocity -0.8 Gradient (mmyear):	A8NE (SE)	86	-	497897 102615
50	Motion Map Average Velocity -1.2 Gradient (mmyear):	A8NE (SE)	86	-	497901 102611
50	Motion Map Average Velocity -1.1 Gradient (mmyear):	A8NE (SE)	89	-	497902 102615
51	Motion Map Average Velocity 0.6 Gradient (mmyear):	A8NE (SE)	89	-	497915 102576
51	Motion Map Average Velocity 0.2 Gradient (mmyear):	A8NE (SE)	90	-	497916 102580

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SU9702	1975
Ordnance Survey Plan	SU9702	1975
Ordnance Survey Plan	SU9703	1975

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Sussex	074_00	1879
Sussex	062_00	1880
Sussex	062_SE	1899
Sussex	074_NE	1899
Sussex	062_SE	1913
Sussex	074_NE	1913
Sussex	074_NE	1940
Sussex	062_SE	1951
Ordnance Survey Plan	SU90SE	1962
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SU90SE	1992

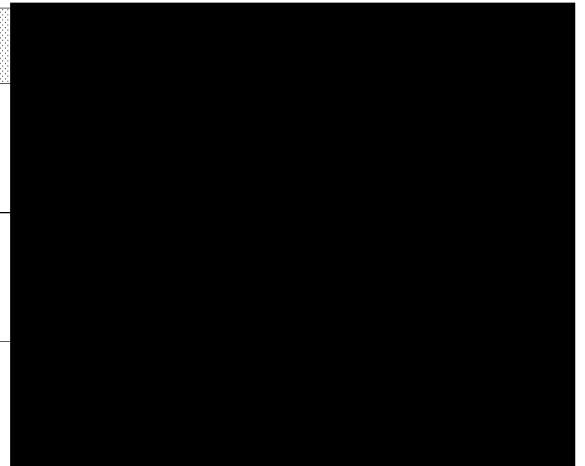
Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Man Made Mining Cavities Peter Brett Associates	October 2015	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2015	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2016	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Subsidence Insurance Claims SP Property Services	February 2016	Quarterly
Subsidence Investigations CET Structures Ltd	February 2016	Quarterly

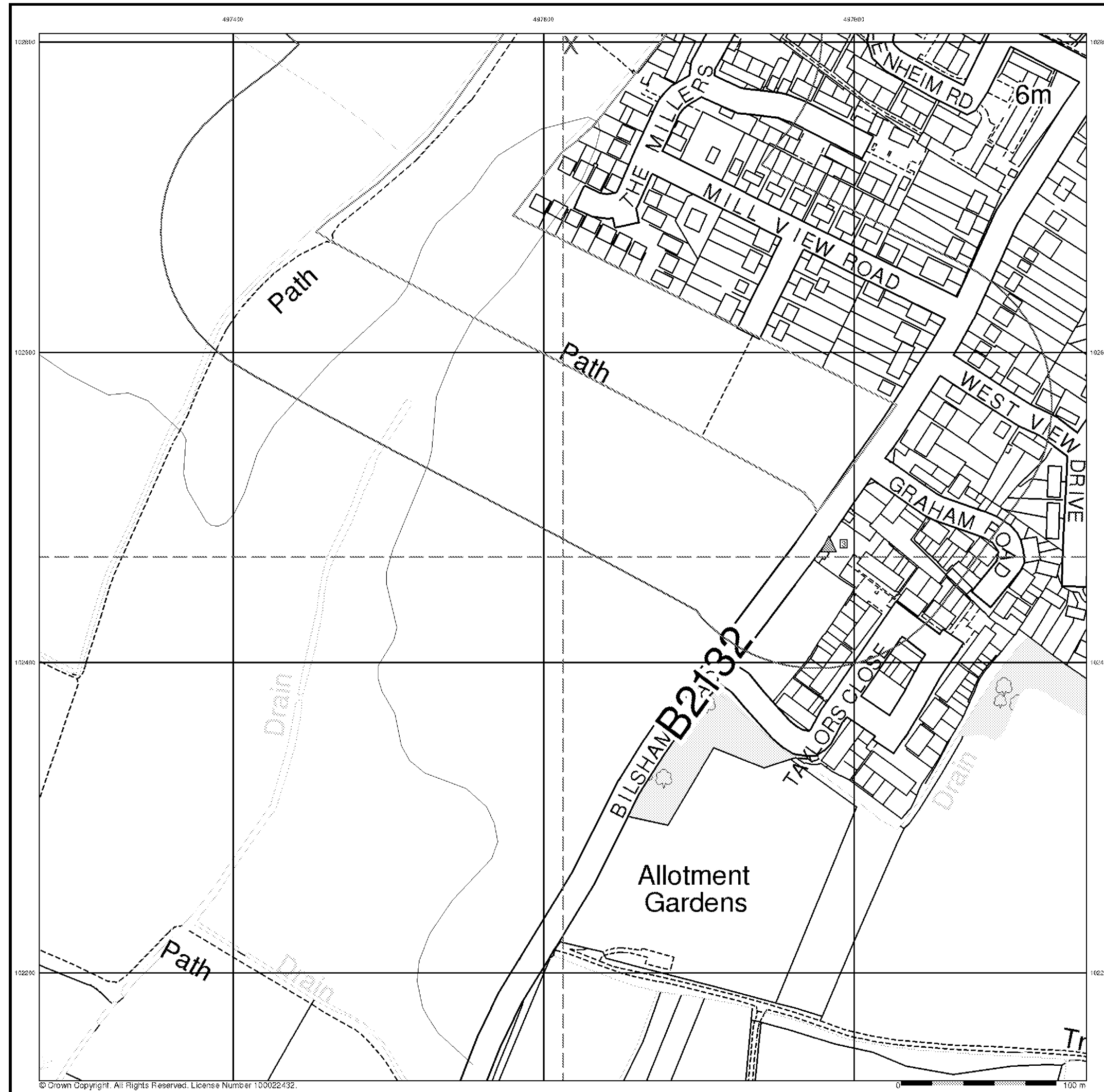
Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenham	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

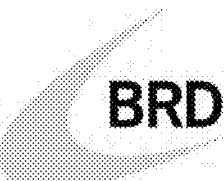
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD







Historical Land Use Information (1:2,500)

General

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

Several of Type at Location

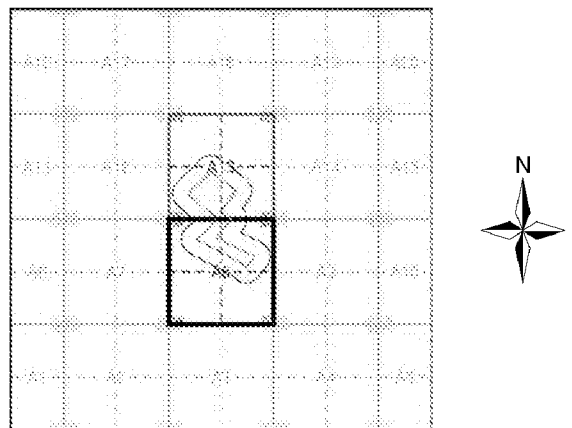
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909			
Extractive Industries Activity from 1893 - 1915			
Extractive Industries Activity from 1906 - 1937			
Extractive Industries Activity from 1924 - 1949			
Extractive Industries Activity from 1950 - 1980			

Subterranean Features

	Point	Line	Polygon
Subterranean Features			

Mining and Ground Stability - Segment A8



Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

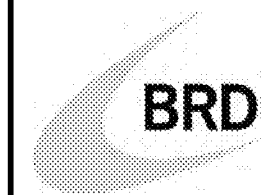
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

A Landmark Information Group Service v49.0 15-Apr-2016 Page 1 of 4



Historical Land Use Information (1:2,500)

General

- Specified Site ○ Specified Buffer(s) X Bearing Reference Point □ Map ID
□ Several of Type at Location

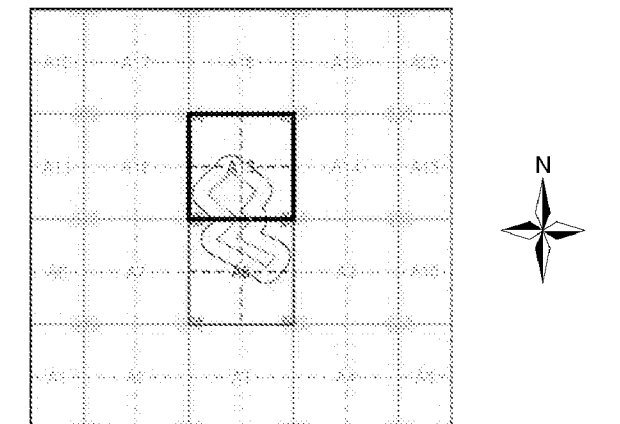
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	—	■

Mining and Ground Stability - Segment A13



Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

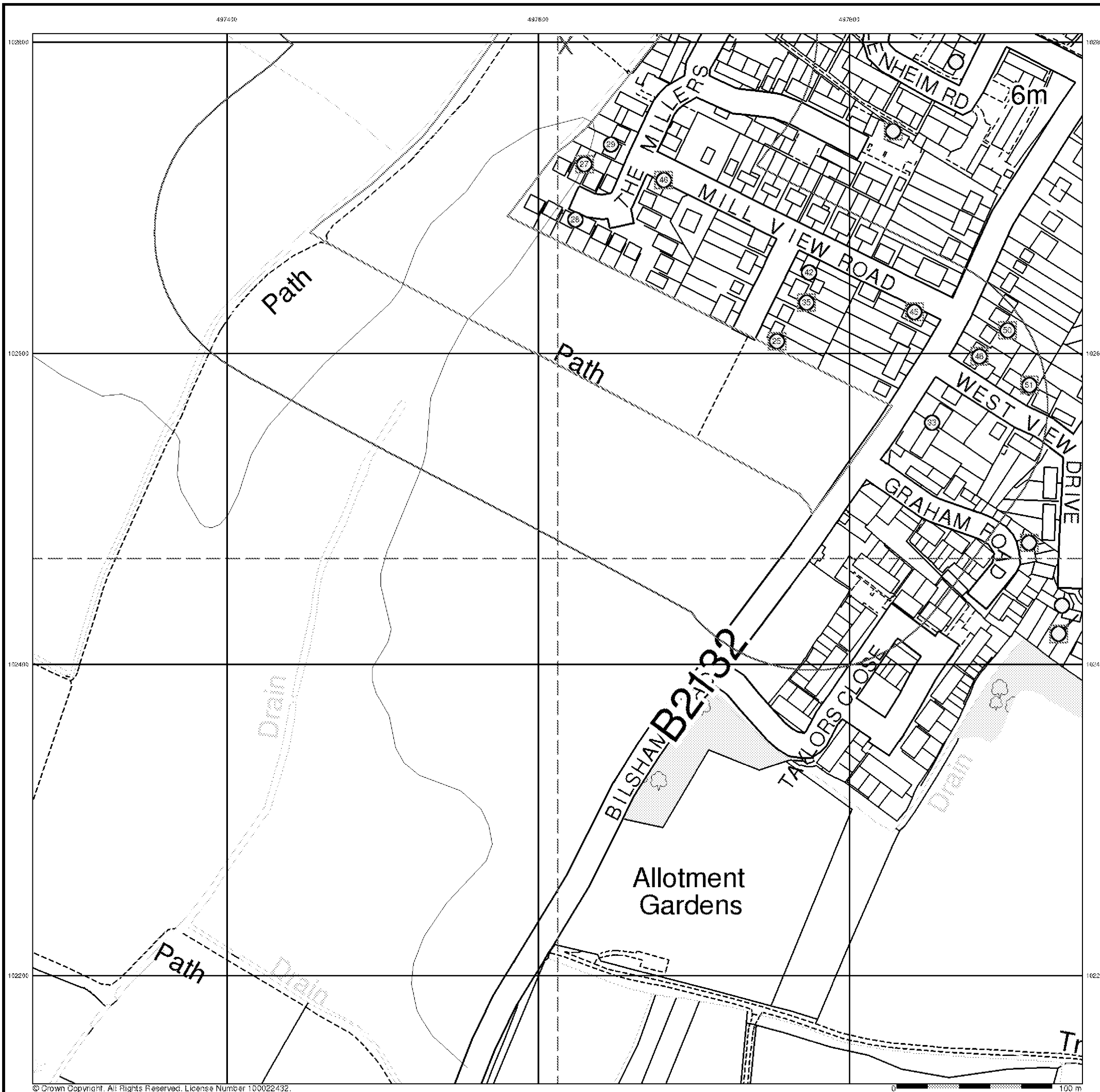
Site Details

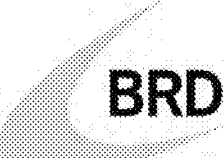
Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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







Motion Map Data (1:2,500)

General

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

 Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year 

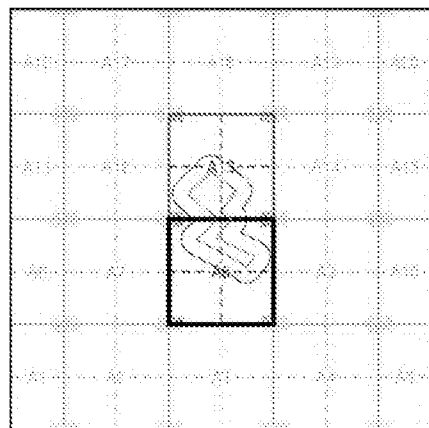
Upward Movement 1.5mm to 3.5mm per year 

Stable 1.5mm to -1.5mm per year 

Downward Movement -1.5mm to -3.5mm per year 

Downward Movement > -3.5mm per year 

Mining and Ground Stability - Segment A8



Order Details

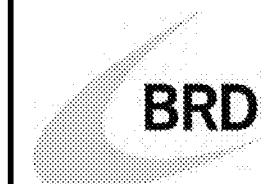
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



Motion Map Data (1:2,500)

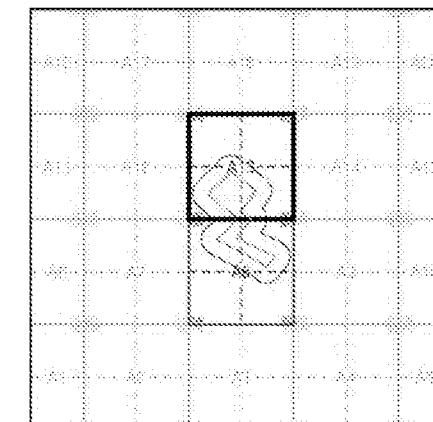
General

- Specified Site Specified Buffer(s) Bearing Reference Point Map ID
 Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
Upward Movement 1.5mm to 3.5mm per year
Stable 1.5mm to -1.5mm per year
Downward Movement -1.5mm to -3.5mm per year
Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A13

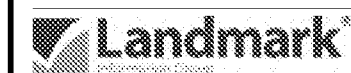


Order Details

Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

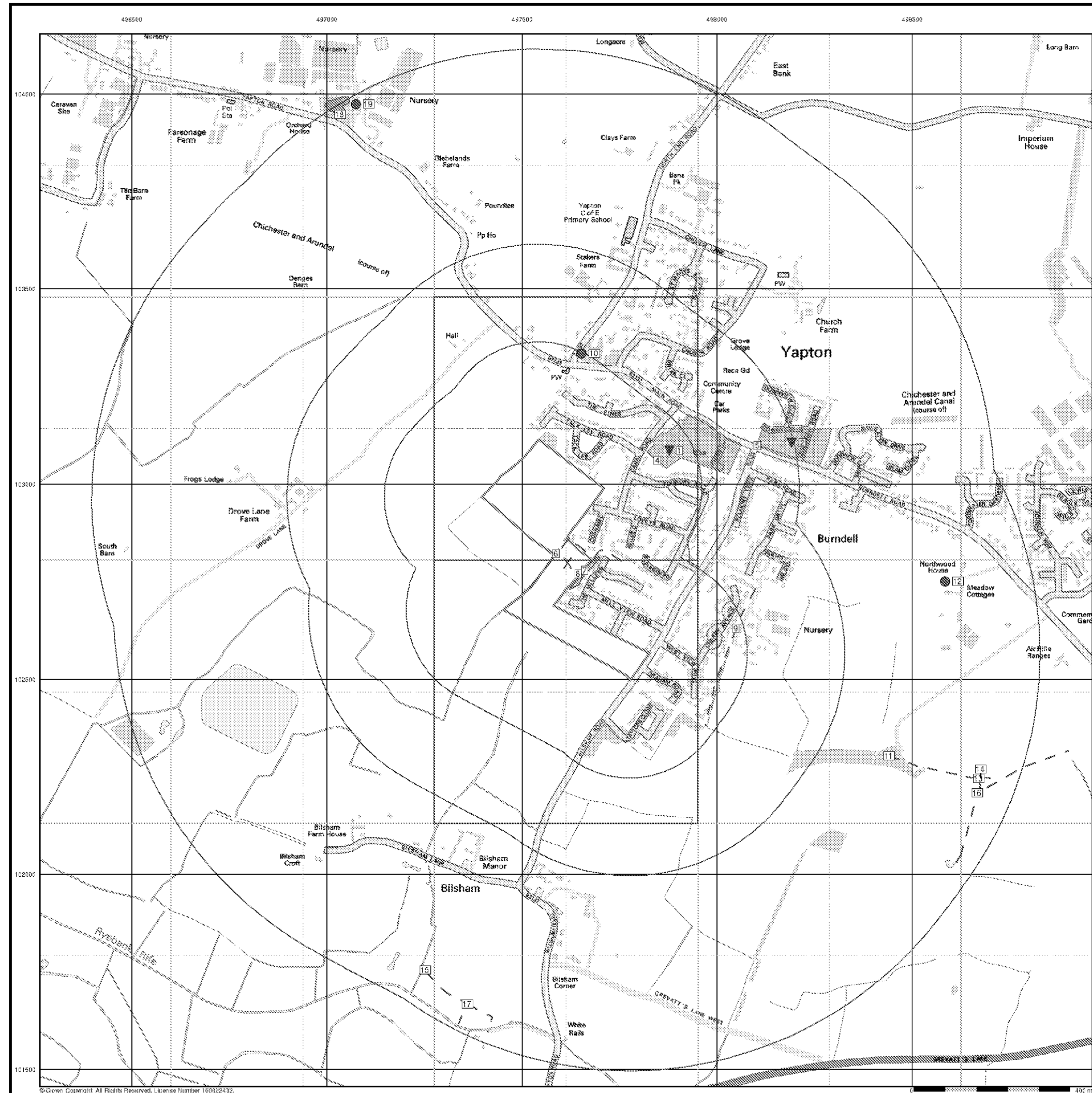
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB

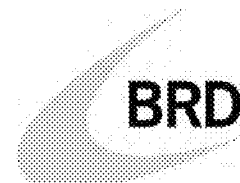


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





© Crown Copyright. All Rights Reserved. License Number 100022432.



Historical Land Use Information (1:10,000)

General

- Specified Site ○ Specified Buffer(s) X Bearing Reference Point □ Map ID
□ Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◇	-----	□
Disturbed Ground	◆	-----	▨
General Quarrying	◆	-----	▩
Heap, unknown constituents	◆	-----	▨
Mineral Railway	◇	-----	□
Mining and Quarrying General	◆	-----	□
Mining of Coal & Lignite	◆	-----	□
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆	-----	□

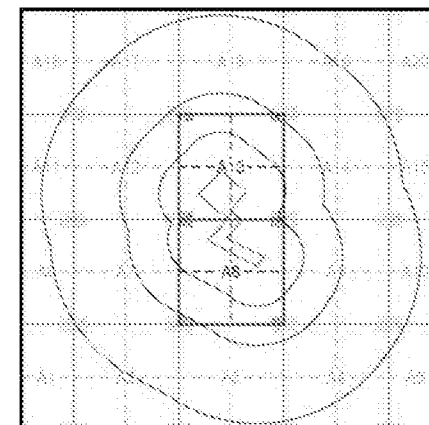
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	-----	▨
Potentially Infilled Land (Water)	●	-----	▨
Former Marsh	⊠		

Mining Data

- ▨ Potential Mining Area
▼ BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

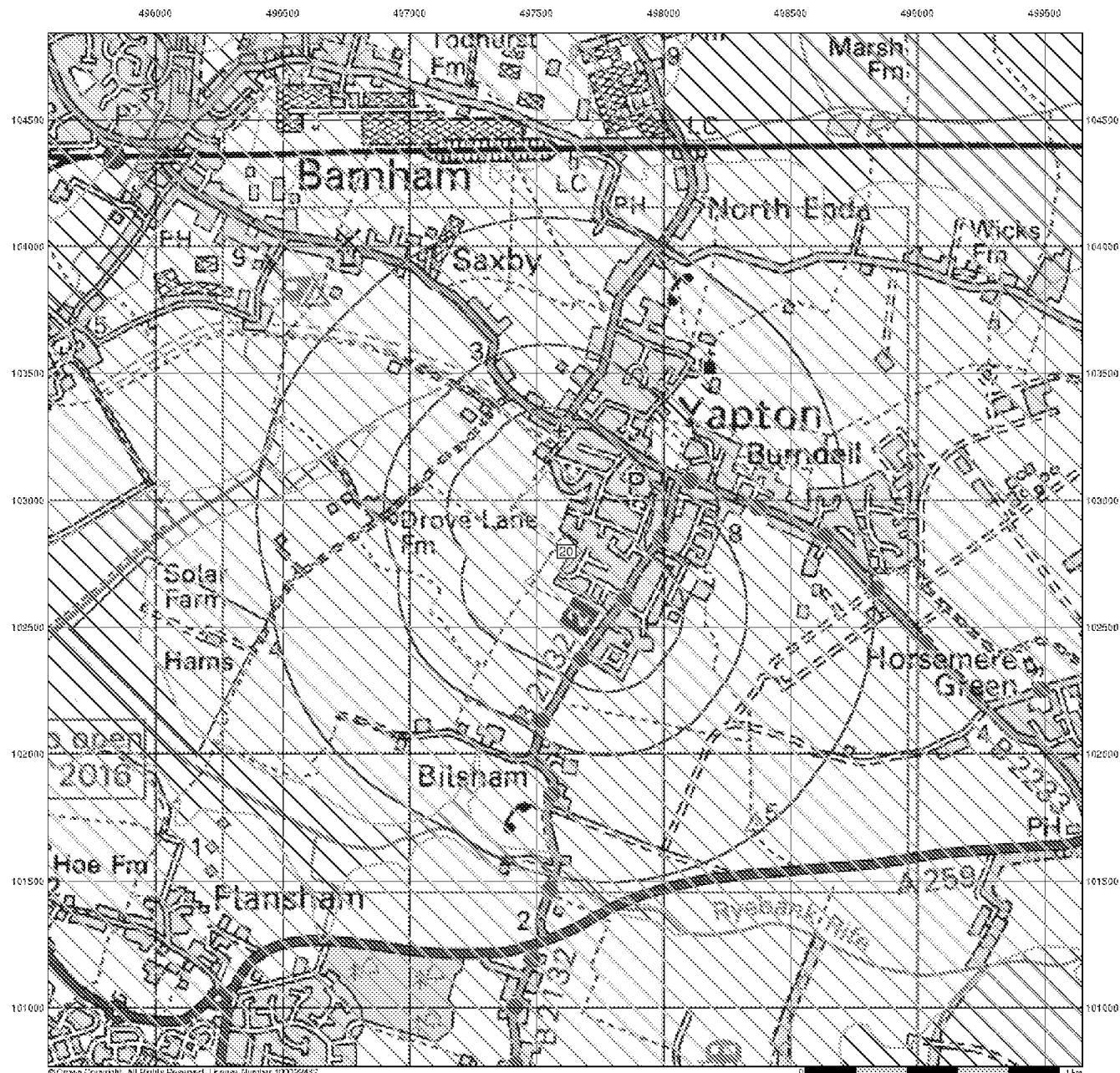
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



© Crown Copyright. All Rights Reserved. License Number 100122462



Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Collapsible Ground Stability Hazards

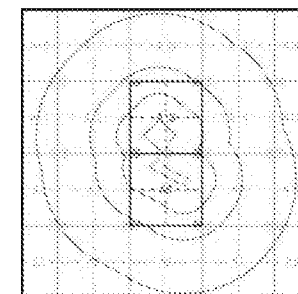
- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- | Point | Polygon |
|-------|---------|
| | |
| | |

Mining and Ground Stability - Slice A

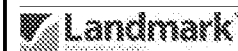


Order Details

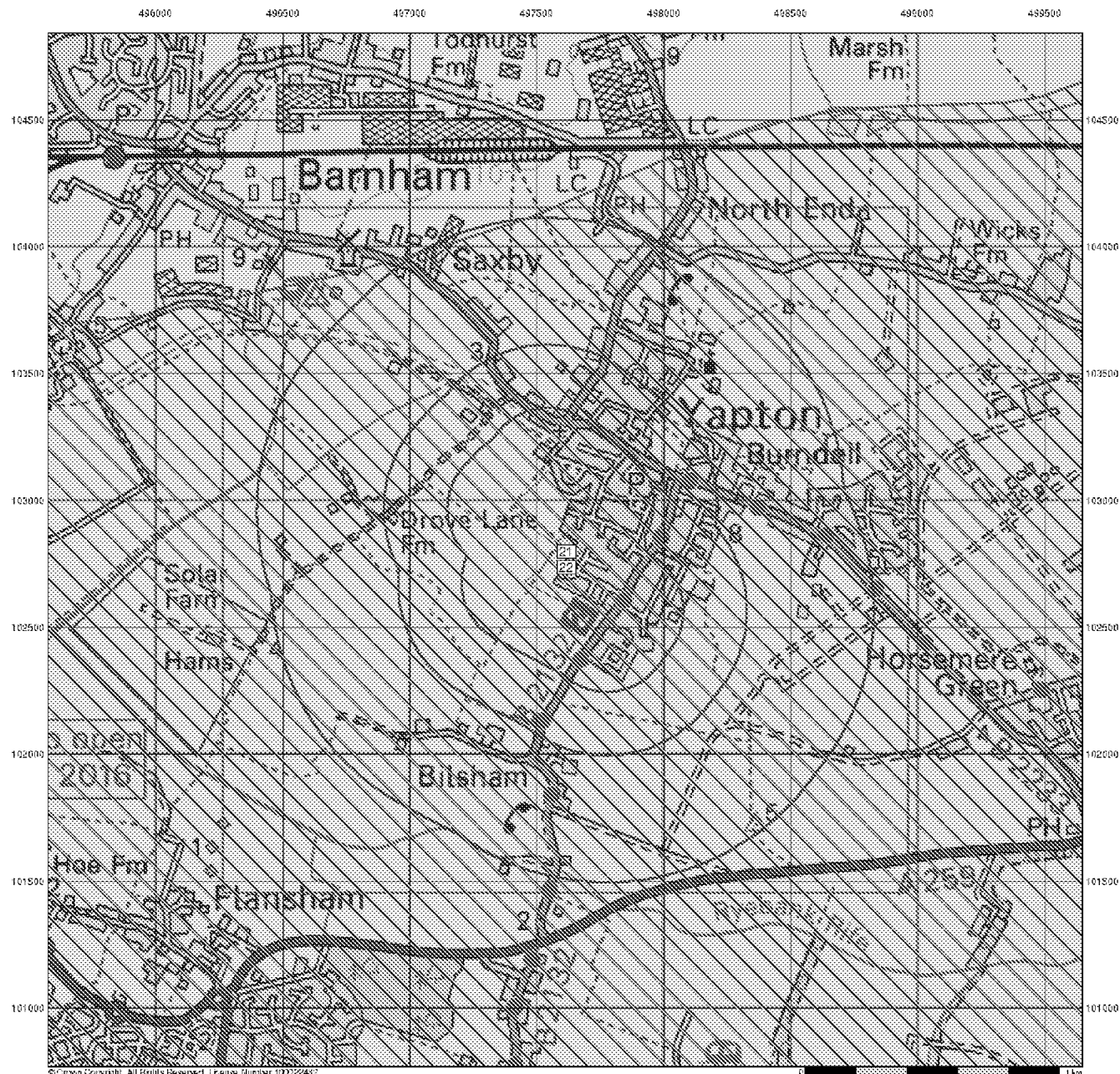
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsam Road, Yapton, Arundel, BN18 0HB



Tel: 0144 544 9952
 Fax: 0144 544 9951
 Web: www.environment.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



Ground Stability Data (1:50,000)

General

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

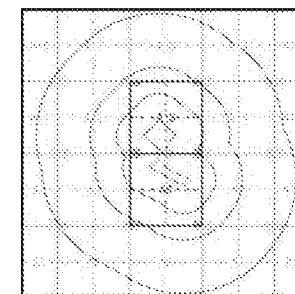
Potential for Landslide Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice A

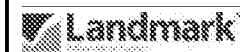


Order Details

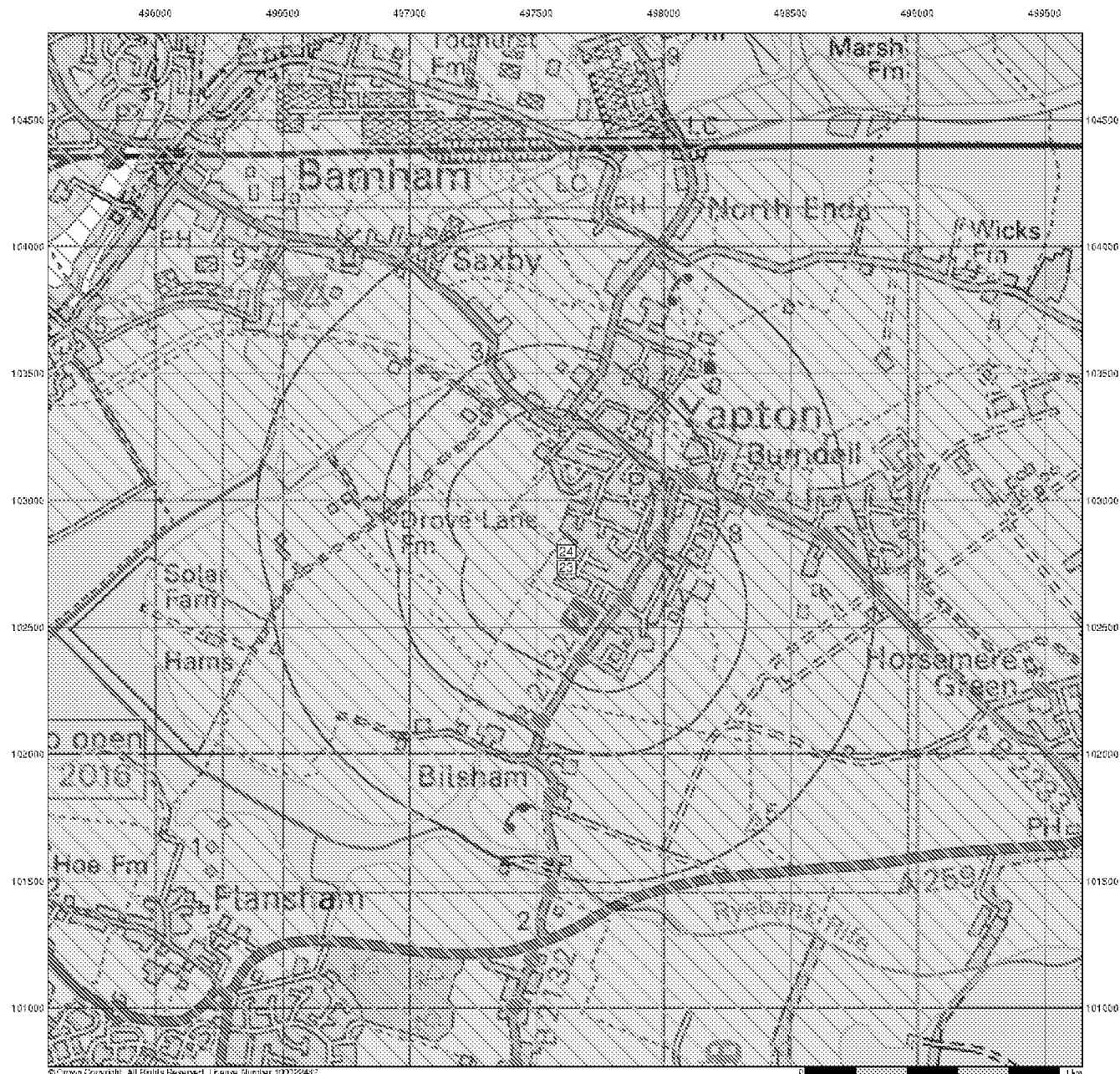
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 0144 544 9952
 Fax: 0144 544 9951
 Web: www.environment.co.uk



© Crown Copyright. All Rights Reserved. License Number 100122462



Ground Stability Data (1:50,000)

General

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

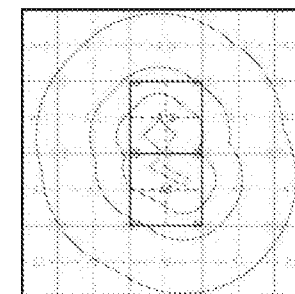
Potential for Running Sand Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice A

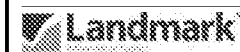


Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



Tel: 01444 544 0052
 Fax: 01444 544 5551
 Web: www.environment.co.uk