



Vistry Homes Ltd

LAND AT WEST BUNTINGFORD

Geo-Environmental and Geotechnical Preliminary
Risk Assessment





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Geo-Environmental and Geotechnical Preliminary Risk
Assessment

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CONTENTS

EXECUTIVE SUMMARY

1 INTRODUCTION AND OBJECTIVES 3

1.1 AUTHORISATION AND PURPOSE OF ASSESSMENT 3

1.2 PROPOSED DEVELOPMENT 3

1.3 OBJECTIVES 3

1.4 SCOPE OF WORKS 3

1.5 PREVIOUS REPORTS 4

1.6 LIMITATIONS 4

2 SITE RECONNAISSANCE 5

2.1 SITE DESCRIPTION 5

3 HISTORICAL POTENTIALLY CONTAMINATIVE LAND USES 7

3.1 SITE HISTORY 7

4 ENVIRONMENTAL SETTING 9

4.1 GEOLOGY AND HYDROGEOLOGY 9

4.2 HYDROLOGY 10

4.3 HYDROGEOLOGY 10

4.4 PRELIMINARY HYDROGEOLOGICAL MODEL 10

4.5 RADON 11

4.6 UNEXPLODED ORDNANCE RISK (UXO) 11

4.7 MINERAL EXTRACTION 11

4.8 WASTE MANAGEMENT 11

4.9 ARTIFICIAL GROUND 12

4.10 ECOLOGY 12

5 REGULATORY CONSULTATION	13
<hr/>	
5.1 REGULATORY INFORMATION	13
5.2 CORRESPONDENCE	16
6 CONCEPTUAL SITE MODEL (CSM)	18
<hr/>	
6.1 INTRODUCTION	18
7 GEOTECHNICAL CONSIDERATIONS	22
<hr/>	
7.1 GEOTECHNICAL HAZARDS	22
7.2 GEOTECHNICAL CONSTRAINTS	22
7.3 PRELIMINARY GEOTECHNICAL APPRAISAL	23
8 CONCLUSIONS AND RECOMMENDATIONS	25
<hr/>	
8.1 ENVIRONMENTAL SETTING	25
8.2 POTENTIAL FOR GROUND CONTAMINATION	25
8.3 GEOTECHNICAL CONCLUSIONS	26
8.4 RECOMMENDATIONS	26

TABLES

Table 2-1 - Site Information	5
Table 3-1 - On-site historical map review	7
Table 3-2 - Off-site historical map review (250m)	7
Table 4-1 - Geological Mapping Summary	9
Table 4-2 – On-Site BGS Borehole Summaries	9
Table 4-3 – Summary of Waste Facilities within 500m	12
Table 5-1 - Regulatory Information within 250m	13
Table 6-1 - Potential Pathways	18
Table 6-2 - On-site conceptual site model	20
Table 6-3 - Off-site conceptual site model	21



Table 7-1 - Geotechnical Hazards	22
Table 7-2 - Geotechnical Constraints	22

APPENDICES

APPENDIX A - FIGURES

APPENDIX A.1 - WSP FIGURES

APPENDIX A.2 - THIRD PARTY FIGURES

APPENDIX B - LIMITATIONS

APPENDIX C - SITE PHOTOGRAPHS

APPENDIX D - ENVIROCHECK REPORT

APPENDIX E - EXPLORATORY HOLE LOGS

APPENDIX E.1 - BGS BOREHOLES

APPENDIX E.2 - WSP EXPLORATORY HOLE LOGS

APPENDIX F - UXO ASSESSMENT

APPENDIX G - LEGISLATIVE AND PLANNING FRAMEWORK

APPENDIX H - REGULATORY LIASION



EXECUTIVE SUMMARY

The site is approximately 28.95 hectares in area and currently comprises undeveloped agricultural land and a storage yard in the south of the site.

WSP understands that the current redevelopment will comprise Outline planning application (with all matters reserved except for access) for up to 350 dwellings, up to 4,400 sqm of commercial and services floorspace (Use Class E and B8), and up to 500 sqm of retail floorspace (Use Classes E) and other associated works including drainage, access into the site from the A10 and Luynes Rise (but not access within the site), allotments, public open space and landscaping.

This report is for the purpose of establishing a comprehensive technical baseline and will inform on potential liabilities associated with the site. The report can also be used to support a planning application.

A Preliminary Risk Assessment (PRA) has been undertaken to develop a preliminary conceptual site model (pCSM) identifying potential ground contamination risks and evaluate the likely significant risks. In addition, a preliminary assessment of geotechnical risks has been provided.

It should be noted that this executive summary does not form a standalone document and should be read in conjunction with the WSP Preliminary Risk Assessment (Ref: 70088938-PRA).

ENVIRONMENTAL SETTING

The ground profile at the site is likely to comprise Made Ground / Topsoil, underlain by the Lowestoft Formation which in turn is underlain by the Lewes Nodular Chalk Formation and Seaford Chalk Formation (White Chalk Sub-group). Glaciofluvial Deposits have the potential to be present in the east and in the north-west of the site.

The White Chalk Sub-group is classified by the Environment Agency (EA) as a Principal Aquifer, the Lowestoft Formation is classified as a Secondary (Undifferentiated) Aquifer and the Glaciofluvial Deposits as a Secondary (A) Aquifer.

The site is located within an EA Source Protection Zone III (SPZ3).

The nearest surface water features are noted to be a land drain located in the central portion of the site running west to east which is likely attributed to the drainage ditches of the A10 which is also shown in the north-west of the site. The River Rib is located 100m east of the site flowing to the south.

It is anticipated that surface water and any groundwater flow direction will be to the east / south-east, towards the River Rib.



POTENTIAL FOR GROUND CONTAMINATION

WSP considers that on-site sources of potential contamination are associated with the current and historical use of the site as agricultural land, site use in the south as a storage yard and historical pollution incidents.

Potential off-site sources of contamination include the surrounding current and historical land uses including a sewage works and surrounding industrial developments.

Plausible contaminant linkages have been identified with respect to human health including dermal contact with inhalation of soils, dust, gas and vapours or ingestion of contaminated soils, dust, or water. Plausible contaminant linkages identified to controlled waters include the possibility of leaching of contaminants from the unsaturated zone, lateral migration of contaminants in surface water on to, and off of the Site and lateral migration of contaminated groundwater from up gradient off-site sources on to the Site.

Plausible contaminant linkages to building structures include direct contact with contaminated soils, groundwater, or immiscible contaminants.

The potential receptors were identified as:

- Current and future site users, including construction and maintenance workers;
- Secondary (A) Aquifer (Glaciofluvial Deposits) Secondary Undifferentiated Aquifer (Lowestoft Formation), and Principal Aquifer (White Chalk Sub-group)
- Onsite and adjacent drains and the River Rib located 100m east
- Site structures, particularly any potable water supply pipes.

In conclusion, the Preliminary Risk assessment indicates generally a **Low to Moderate** risk to human health, controlled waters, and site structures.

GEOTECHNICAL CONCLUSIONS

It is anticipated the units will be founded on shallow footings within the Lowestoft Formation, however this will be dependent on the strength / density of the near surface natural soils, proposed structural loads and thickness of any Made Ground.

It is likely that suspended floor slabs of beam and block construction are to be used for the residential properties.

A targeted intrusive ground investigation is required to inform on subsequent stages of design.

RECOMMENDATIONS

WSP recommends the following actions are undertaken:

- An intrusive ground investigation should be undertaken to assess:
 - Baseline ground conditions at the site and investigations of contaminant concentrations, ground gas and groundwater monitoring; and,
 - Geotechnical parameters to assist subsequent design.
- Following the ground investigation, an interpretative Ground Investigation Report (GIR) should be produced including an assessment of the risk from contamination at the site and a preliminary geotechnical appraisal.

These works can be undertaken taken by way of condition post planning submittal and during the design stage.

1 INTRODUCTION AND OBJECTIVES

1.1 AUTHORISATION AND PURPOSE OF ASSESSMENT

WSP was instructed by Vistry Homes Ltd ('the Client') to undertake a Geo-Environmental and Geotechnical Preliminary Risk Assessment (PRA) for the Land at West Buntingford, Buntingford ('the Site') as shown on **Figure 1** in **Appendix A.1**.

1.2 PROPOSED DEVELOPMENT

The site is approximately 28.95 hectares in area and currently comprises undeveloped agricultural land and a storage yard in the south of the site.

WSP understands that the current redevelopment will comprise Outline planning application (with all matters reserved except for access) for up to 350 dwellings, up to 4,400 sqm of commercial and services floorspace (Use Class E and B8), and up to 500 sqm of retail floorspace (Use Classes E) and other associated works including drainage, access into the site from the A10 and Luynes Rise (but not access within the site), allotments, public open space and landscaping.

The current proposed layout is presented as drawing **10537-FPCR-XX-XX-DR-A-1002** in **Appendix A.2**.

This report is for the purpose of establishing a comprehensive technical baseline and will inform of potential liabilities associated with the site. The report can be used to support a planning applications for the site.

1.3 OBJECTIVES

The key objectives of this assessment are to:

- Develop a preliminary conceptual site model (pCSM) to identify potential ground contamination risks associated with the site;
- Evaluate the likely significance of risks associated with potential ground contamination through a contaminant linkage assessment for the proposed development; and
- Identify preliminary geotechnical risks that would need to be considered once redevelopment proposals have been produced.

1.4 SCOPE OF WORKS

The scope of works undertaken in this assessment comprises:

- A site walkover of publicly accessible areas to document the current land use and site setting;
- A review of publicly available historical maps and site plans (where available) to identify former land uses and potential contaminative activities on and surrounding the site;
- A review of previous reports completed for the site (where available);
- A review of relevant regulatory authorities including the Environment Agency (EA), Local Council planning website, the Buildings Control Officer (BCO) and the Contaminated Land Officer (CLO);
- A review of Unexploded Ordnance (UXO) risk at the site;
- A review of relevant publicly available information relating to hydrological features, hydrogeology, neighbouring land use, ecologically sensitive uses, and geology in order to establish the environmental setting of the site and the sensitivity of the location;



- Development of a preliminary conceptual site model via the source-pathway-receptor contaminant linkage approach;
- An outline of environmental risks with respect to ground, groundwater, and ground gas conditions, which may potentially arise as liabilities or constraints; and,
- A preliminary desk based geotechnical assessment of existing ground conditions to identify potential ground engineering risks.

This report has been prepared in general accordance with:

- Part 2A, Environmental Protection Act 1990;
- Environment Agency Land Contamination Risk Management (LCRM) 2020; and
- The National Planning Policy Framework.

The report contains British Geological Survey (BGS) and EA information.

1.5 PREVIOUS REPORTS

WSP have previously completed the following works on the site:

- WSP, Infiltration Testing Report, November 2014, 'Land at West Buntingford – Infiltration Testing' (Ref: 70007498)
- WSP, Geo-Environmental and Geotechnical Preliminary Risk Assessment, 2014 (updated) June 2017, 'Buntingford West' (Ref: 70007498-002)

Findings of these previous reports have been included as part of this current assessment.

1.6 LIMITATIONS

This report is addressed to and may be relied upon by the client (Vistry Homes Ltd). It may not be relied upon or transferred to any other parties without the express agreement of WSP in writing. The report should be read and used in full. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party. WSP cannot be held liable for third party information.

The limitations of this assessment are attached in **Appendix B**.

2 SITE RECONNAISSANCE

2.1 SITE DESCRIPTION

The site location is provided as **Figure 1 (Appendix A.1)** and current site layout plan as **Figure 2 (Appendix A.1)**. A site visit was carried out by WSP on 30 May 2022 and a photographic record of key on-site observations is provided in **Appendix C. Figure 2 in Appendix A.1** shows the location of each photo taken during the site visit and should be used in conjunction with **Appendix C**.

Table 2-1 provides information relating to the site obtained from a review of Ordnance Survey (OS) mapping, online aerial photography, the site walkover, and relevant regulatory information contained within the Envirocheck Report (**Appendix D**).

Table 2-1 - Site Information

Details	Description
Name and address of site	Land as West Buntingford, Buntingford
Grid reference	535560, 228670
Size	28.95ha
Site description and current use	<p>The site is an irregular shaped piece of land and comprised undeveloped grassland (Photos 1-10) and a storage yard in the south of the site (Photo 14). The storage yard comprised car parking, skips and small stockpiles of soils.</p> <p>Two public right of way (PROW) footpaths intersect the site (Photos 1, 3 and 10).</p> <p>The A10 was noted to intersect the site from north to south, one PROW crossed the A10 via a footbridge (Photo 11).</p> <p>Access points to both eastern and western sides of the site were noted to be from the A10 (Photo 12).</p>
Ground cover	The site comprised soft standing throughout with hardstanding found in the storage yard in the south of the site.
Trees and invasive species	<p>Mature and semi mature trees are noted alongside the majority of the site boundaries.</p> <p>No invasive species were noted during the walkover.</p>
Topography	Mapping indicates the site falls from north to south and from west to east with a fall of approximately 35m (approximately 123m and 88m above ordnance datum (AOD)).

Bulk material storage	<p>Soil and manure piles were noted to lie in the east of the site in close proximity to a tertiary entrance to the south (Photo 13).</p> <p>A 2m high bund separated the south of the site from a storage yard. This area currently lies in the redline for the site (Photo 14).</p>
Polychlorinated biphenyls (PCBs)	No substations were noted at the site.
Waste storage	No further waste storage noted other than the storage yard in the south of the site.
Asbestos containing materials (ACMs)	There were no Asbestos Containing Materials observed on site.
Nearby features	<p>An active sewage treatment plant was noted to the south-east of the site (Photo 15).</p> <p>Residential areas were noted to the east and north of the site with further agricultural fields noted to the west and south.</p>

3 HISTORICAL POTENTIALLY CONTAMINATIVE LAND USES

3.1 SITE HISTORY

The history of the site and local environs has been reviewed and determined with reference to Ordnance Survey maps contained within the Envirocheck Report (Ref: 296189182_1_1). A study has been undertaken to identify potentially contaminative former land uses. The following section provides a summary of this information, and the Envirocheck Report is attached as **Appendix D**.

ON-SITE

Table 3-1 - On-site historical map review

Date of Mapping	Scale	Feature
1878 to Present	1:2,500	Mapping shows the site as undeveloped agricultural land with two footpaths traversing the site in a north-east to south-west direction. A drain crosses the central area of the site in an east to westerly direction. An additional footpath is noted from 1923 running north to south in the east of the site. Storage yard noted from 2021 edition.

OFF-SITE

Table 3-2 - Off-site historical map review (250m)

Name	Direction	Approx. Distance (m)	Year's feature observed
Undeveloped land A10	Intersects the site from the north and south-east	Adjacent	1878 to 1987 1987 to present
Undeveloped land Sewage Farm and tanks A series of tanks noted, sewage farm no longer labelled Tanks cleared and commercial buildings developed. Potentially associated with Watermill industrial estate	East	Adjacent to 50	1878 to-1921 1921 to 1975 1975 to 1992 1992 to present
Scotts' Green Farm Area undeveloped Building noted Additional buildings constructed noted as 'Works' Area part of Watermill Industrial Estate	East	10 to 100	1878 to 1921 1921 to 1975 1975 to 1984 1984 to 1992 1992 to present

Name	Direction	Approx. Distance (m)	Year's feature observed
Undeveloped land Sewage works	South-east	Adjacent to 150	1878 to 1975 1975 to present
Undeveloped agricultural land	South, West and North	Adjacent to 250	1878 to present
'The Thicket' forest	North-west	Adjacent to 250	1878 to present
The Folly Farm Residential units	North	50	1878 to 1975 1975 to present
Watermill	East	50	1878 to present
How Green Farm, no longer labelled in 1987 however buildings still present Demolished / redeveloped into roadways, buildings of unknown use and Buntingford business park	North	80	1878 to 199 1994 to present
Undeveloped Land Petrol Station	North	100	1878 to 1992 1992 - Present
Gas works Works Layston lodge Residential units	East	200 to 250	1878 to 1960 1960 to 1975 1975 to 1984 1993 to present
Undeveloped land Old Gravel Pit Undeveloped land	West	250	1878 to 1899 1899 to 1923 1923 to present
Undeveloped land Water works with reservoir Sunnyside Nursery, water works no longer labelled. Covered reservoir still present. Demolished to undeveloped land Buntingford business park (reservoir still present 'covered')	North	250	1878 to 1923 1923 to 1975 1975 to 1993 1993 to 2021 2021 to present

4 ENVIRONMENTAL SETTING

4.1 GEOLOGY AND HYDROGEOLOGY

The British Geological Survey (BGS) Map Sheet 221 – Hitchin (1:50,000, 1995) has been reviewed and the underlying geology is present in **Table 4-1** together with EA aquifer designations for the relevant geological units.

Table 4-1 - Geological Mapping Summary

Strata	Location	Description	Aquifer Designation
Glaciofluvial Deposits	North-west and east of the site	Chalky sand and gravel	Secondary (A) Aquifer
Lowestoft Formation	Entire site	Chalky, sandy, stony clay	Secondary Undifferentiated Aquifer
Lewes Nodular Chalk Formation and Seaford Chalk Formation (White Chalk Sub-group)	Entire site	White chalk with courses of flint	Principal Aquifer

Two publicly available BGS boreholes are situated on-site, locations of BGS boreholes can be found in **Figure 1** in **Appendix A.1**. A summary of the BGS borehole logs is presented in **Table 4-2** below and a copy of the logs are presented in **Appendix E.1**.

Table 4-2 – On-Site BGS Borehole Summaries

Borehole	Location	Strata encountered	From to depth (m bgl*)	Depth groundwater encountered (m bgl*)
TL32NE25 TL32NE26	On-site	<p>Topsoil</p> <p>Lowestoft Formation: Stiff light grey and brown mottled silty clay with some subrounded fine to coarse chalk gravel and occasional subangular to subrounded flint and assorted gravel, increasing stiffness with depth. Becomes very stiff dark grey slightly sandy, silty clay with a little generally fine to medium assorted gravel, mainly chalk and flint</p>	<p>GL to 0.80</p> <p>0.60 to 20.00 (not proven)</p>	TL32NE26 - Water strike at 15.50m (rose to 15.30m in 20 minutes)

*metres below ground level

A previous ground investigation for infiltration testing was completed by WSP on the site in November 2014 (Ref: 70007498). The Exploratory Hole Plan is presented as **Figure 3** in **Appendix A.1** and the Exploratory Hole Records can be found in **Appendix E.2**.

During this investigation Made Ground was encountered in the central eastern portion of the site which comprised slightly sandy gravelly clay with rare red brick fragments, encountered to a maximum depth of 0.29m below ground level (bgl). In the eastern and northern sections of the site topsoil was encountered to a maximum depth of 0.37m bgl.

The Lowestoft Formation was encountered in all locations beneath the Made Ground / Topsoil to a maximum depth (not proven) of 3.00m bgl.

4.2 HYDROLOGY

There is one surface water feature present on site, a land drain which is located running west to east across the central portion of the site. It is likely this interacts with the A10 drainage which in turn interacts with a second drain which is noted adjacent to the north-west of the site.

Significant water features within 500m of the site are noted as follows:

- The River Rib is located 100m east of the site and flows to the south; and
- The River Bourne is located 280m south of the site and flows east. The Bourne confluences with the River Rib approximately 780m south-east of the site.
- The Thistley Vale Brook is located 360m west of the site and flows south-east in to the Bourne.

Mapping indicates that there is risk from flooding from surface water and ranges between Low (1,000-year return) and Medium (100-year return). Medium risk from surface water flooding is present in a small area along the eastern boundary and Low risk is present both in this eastern boundary north and north-western boundary of the site and the adjacent northern boundary of the site.

This report does not pertain to be a flood risk assessment and specialist advice should be sought in this respect.

No surface water abstractions are recorded within 500m of the site.

4.3 HYDROGEOLOGY

No ground water abstractions are recorded within 500m of the site.

Mapping of groundwater vulnerability shows the site is underlain by a principal bedrock aquifer which is considered to have high vulnerability. The east of the site is noted to have the potential for groundwater flooding of properties situated below ground level.

The site is located within an Environment Agency Source Protection Zone (SPZ) 3.

4.4 PRELIMINARY HYDROGEOLOGICAL MODEL

The ground profile at the site is anticipated to comprise Made Ground / Topsoil predominantly overlying the Lowestoft Formation. The Glaciofluvial Deposits are anticipated to overlie the

Lowestoft Formation in north-west and east of the site. The White Chalk Sub-group is anticipated to be beneath the Lowestoft Formation at depth.

The Glaciofluvial Deposits are classified by the EA as Secondary (A) Aquifer; and the Lowestoft Formation is classified as a Secondary Undifferentiated Aquifer. The underlying White Chalk Sub-group is a Principal Aquifer.

The Hydrogeological Map of the Area between Cambridge and Maidenhead (Sheet 14 1:100,000; 1984) indicates that the groundwater lies at approximately 85m AOD within the White Chalk Sub-group. Mapping indicates the site's ground level varies between 123m and 88m AOD therefore, groundwater is likely to be encountered at depths between 3m (east of site) and 38m bgl (West and North of site).

BGS Borehole TL32NE26 recorded a groundwater strike at 15.50m bgl within the Lowestoft Formation, rising to 15.30m bgl after 20 minutes.

The mapping indicates that the groundwater flow is to the east / south-east, it is anticipated this will be towards the River Rib.

There may be the potential for localised groundwater units to be present within granular lenses of the Made Ground. Glaciofluvial Deposits and Lowestoft Formation. It is likely that water bodies within the Lowestoft Formation are in hydraulic continuity with the underlying chalk. This is evident due to the likely shallow groundwater table in the east of the site and evidence of groundwater strikes in the Lowestoft formation in the centre of the site.

4.5 RADON

The BGS indicates that the site is in a low probability radon area (less than 1% of homes are estimated to be at or above the Action Level). No radon protection measures are necessary in the construction of new dwellings or extensions.

4.6 UNEXPLODED ORDNANCE RISK (UXO)

Publicly available bomb risk mapping supplied by Zetica, indicates that the site is at a Low risk of UXO. A copy of the risk mapping is presented within **Appendix F**.

4.7 MINERAL EXTRACTION

There is one BGS recorded mineral site located 301m north-west of the site. The Thicket Gravel Pit (Ref: 166704) is a ceased opencast site for the commodity of sand and gravel within the Glaciofluvial Deposits.

4.8 WASTE MANAGEMENT

The following Licensed Waste Management Facilities and Waste Transfer Sites are recorded within 500m of the site have been summarised in **Table 4-3**.

Table 4-3 – Summary of Waste Facilities within 500m

Location	License No. / Operator	Date issued	Site Category	Status
140m east	96/362 / Hertfordshire County Council	February 1977	Registered Waste Transfer Site: Civil Amenity with a very small max input rate (<10,000 tonnes per year)	Operational as far as is known
141m east	80193 / Hertfordshire County Council	February 1977	Waste Management Facility: Household Waste Amenity Sites	Transferred
342m north	404799 / Urbaser Limited	October 2018	Waste Management Facility: Household Waste Amenity Sites	Modified

There are ten entries of potentially infilled land (water) within 500m of the site all composing of Unknown Filled Ground (Pond, marsh, river, stream, dock etc) ranging from 114m to 479m north, north-east, south-east, south and west.

4.9 ARTIFICIAL GROUND

Areas of infilled ground are noted immediately adjacent to the southeast boundary of the site. These areas are attributed to the Sewage works and the Industrial Estate.

There is no indication this area has been landfilled and is likely due to land raise attributed to the construction of the above.

Compositions of soils are unknown.

4.10 ECOLOGY

The site lies within a Nitrate Vulnerable Zone. The site does not lie in a Nitrate Sensitive Area.

5 REGULATORY CONSULTATION

5.1 REGULATORY INFORMATION

Information relating to various regulatory controls has been taken from the Envirocheck Report, which is presented in **Appendix D**. The potential for hazardous materials to impact upon the ground conditions, surface or groundwater on-site are summarised below within **Table 5-1**.

Table 5-1 - Regulatory Information within 250m

Environmental Data	Distance from site (within 250m)	Details	Potential risk
Contaminated land register entries and notices	N/A	No entries on the contaminated land register were recorded within 250m of the site.	No
Discharge Consents	24m east	Permit 2 Thames Water Utilities Ltd (Ref: Temp.0364) Discharge of sewage into the River Bourne, issued September 2010. Status – surrendered under EPR 2010. Revoked October 2015.	No – Due to discharge consent being hydraulically down gradient of the site.
	24m east	Permit 1 Thames Water Utilities Ltd (Ref: Temp.0364) Discharge of sewage into the River Bourne, issued November 1989. Status – temporary consents (water act 1989, section 113). Revoked September 2010.	No – Due to discharge consent being hydraulically down gradient of the site.
	27m east	Permit 3 Thames Water Utilities Limited (Ref: Catm.3092) Discharge of sewage into the River Rib, issued November 1998. Status – modified (water resources act 1991, schedule as amended by environment act 1995). Revoked March 2005.	No – Due to age final of discharge and downgradient of the site.
	104m east	Rialto Builders Ltd. (Ref: Ctwc.0559) Discharge of other matter into the River Rib, issued December 1985. Status – revoked. Revoked August 1994.	No – Due to age final of discharge and downgradient of the site.
	117m east	Thames Water Utilities Ltd. (Ref: Catm.3092) Discharge of sewage into River Rib, issued January 2020. Status – varied under EPR 2010. Revocation date not supplied.	No – Due to discharge consent being hydraulically down gradient of the site.
	127m east	Thames Water Utilities Ltd. (Ref: Catm.3092) Discharge of sewage into River Rib, issued January 2020. Status – varied under EPR 2010. Revocation date not supplied.	No – Due to discharge consent being hydraulically down gradient of the site.

Environmental Data	Distance from site (within 250m)	Details	Potential risk
	132m east	D & M (Herts) Ltd. (Ref: Ctwc. 3171) Discharge of other matter into the River Rib, issued March 1989. Status – revoked. Revoked March 1992	No – Due to age final of discharge and downgradient of site.
	132m east	The occupier (Ref: Ctwc.0021) Discharge of sewage onto land, issued April 1985. Status – Lapsed (under environment act 1995, schedule 23). Revoked October 1996.	No – Due to age final of discharge and downgradient of site.
	140m east	4no. Permits Thames Water Utilities Ltd. (Ref: Temp.2422 and Clcr.0091) Discharge of public sewage from storm overflow into River Rib. Latest permit issued December 1960. Status – revoked. Revoked February 1998.	No – Due to age final of discharge and downgradient of site.
	141m east	6no. Permits Thames Water Utilities Ltd. (Ref: Catm.3092) Discharge of sewage into River Rib. Latest issue April 2010 and Revoked January 2020 Status – modified	No – Due to discharge consent being hydraulically down gradient of the site.
	160m and 164m east	2no. Permits Thames Water Utilities Ltd. (Ref: Catm.3092) Discharge of sewage into River Rib. Latest issued February 1998 and revoked in November 2004. Status – Modified.	No – Due to age final of discharge and downgradient of site.
	167m east	Thames Water Utilities Ltd. (Ref: CATM.3092) Discharge of sewage storm overflow into a land soakaway, issued December 1997. Status – revoked. Revoked March 2005	No – Due to age final of discharge and downgradient of site.
Local Authority Pollution Prevention and Controls	103m north	Bp Express (Ref: PPC/049) PG1/14 petrol filling station, status – permitted	No – recently redeveloped and potentially located upgradient of the site
Pollution Incidents to Controlled Waters	77m east	Category 3 – Minor incident (Ref: NE920417) relating to unknown sewage, dated July 1992	No – Due to date of incident and downgradient of the site
	185m east	Category 3 – Minor incident (Ref: NE920136) relating to miscellaneous (unknown), dated March 1992	No – Due to date of incident and downgradient of site

Environmental Data	Distance from site (within 250m)	Details	Potential risk
Substantiated Pollution Incident Register	Onsite south-east	Category 2 – Significant land impact from sewage, dated October 2014 (Ref: 12836565)	Yes – Incident is recent and significant.
	130m east	Category 2 – Significant water impact from sewage materials (final effluent), dated April 2005 (Ref: 303388)	No – Due to date of the incident and being hydraulically downgradient of site.
Trade Directory Entries	0m Active / Inactive	N/A	N/A
	1-250m Active	Generators - Sales & Service, Plastics - Injection Moulding, Garage Services, Commercial Vehicle Breakdown & Recovery Services, Petrol Filling Stations, Spring Manufacturers & Distributors, Ironing & Home Laundry Services, Builders' Merchants, Blinds, Awnings & Canopies, Cleaning Services – Domestic,	Yes – potential risk due to proximity of site
	1-250m Inactive	Meat Product Manufacturers & Wholesalers, Mould Manufacturers, Garage Services, Precision Engineers, Transformer Manufacturers, Printers, Plastic Products – Manufacturers, Car Body Repairs, Commercial Vehicle Servicing, Repairs, Parts & Accessories, Car Accessories Manufacturers, Petrol Filling Stations, Mot Testing Centres, Gate Manufacturers, Tool Design, Manufacturers & Makers, Cabinet Makers, Sheet Metal Work, Carpet, Curtain & Upholstery Cleaners, Tyre Dealers, Graffiti Removers, Bus & Coach Operators & Stations, Stairlifts - Manufacturers & Installers, Pest & Vermin Control, Road Haulage Services, Sand, Gravel & Other Aggregates	No
Control of major accident hazards sites (COMAH)	N/A	No entries within 250m of the Site.	No
Registered radioactive substances	N/A	No registered radioactive substances were recorded within 250m of the Site.	No
Notification of installations	N/A	No entries within 250m of the site	No

Environmental Data	Distance from site (within 250m)	Details	Potential risk
handling hazardous substances			
Planning Hazardous Substance Consents	N/A	No entries within 250m of the Site.	No
Fuel station entries	101m north	BP (MFG Howe Green). Status – Under Development	No – recently redeveloped and potentially located upgradient of the site

5.2 CORRESPONDENCE

CONTAMINATED LAND OFFICER (CLO)

The Contaminated Land Officer for East Hertfordshire District Council (EHDC) was contacted on 27th May 2022. No response has been received to date, however if any pertinent information is received this will be added to this report as an addendum.

It should be noted that a response from the CLO was obtained for the WSP, Geo-Environmental and Geotechnical Preliminary Risk Assessment, June 2017. The Officer confirmed that the site is not designated as contaminated land under part 2A of the Environmental Protection Act.

The Officer also confirmed that there are no landfills, records of complaints or remediation of the site within 500m of the site.

Following the 2022 application for planning permission at the site, the Environmental Health Officer for EHDC stated that the following planning conditions would be required for the site.

The development hereby permitted shall not begin until a scheme to deal with contamination of land/ground gas/controlled waters has been submitted to and approved in writing by the local planning authority. The scheme shall include all of the following measures, unless the local planning authority dispenses with any such requirement specifically in writing:

- 1. A Phase II intrusive investigation report detailing all investigative works and sampling on site, together with the results of the analysis, undertaken in accordance with BS 10175:2011 Investigation of Potentially Contaminated Sites – Code of Practice. The report shall include a detailed quantitative human health and environmental risk assessment.*
- 2. A remediation scheme detailing how the remediation will be undertaken, what methods will be used and what is to be achieved. A clear end point of the remediation shall be stated, and how this will be validated. Any ongoing monitoring shall also be determined.*
- 3. If during the works contamination is encountered which has not previously been identified, then the additional contamination shall be fully assessed in an appropriate remediation scheme which shall be submitted to and approved in writing by the local planning authority.*

4. A validation report detailing the proposed remediation works and quality assurance certificates to show that the works have been carried out in full accordance with the approved methodology shall be submitted prior to [first occupation of the development/the development being brought into use]. Details of any post-remedial sampling and analysis to demonstrate that the site has achieved the required clean-up criteria shall be included, together with the necessary documentation detailing what waste materials have been removed from the site.

Reason:

To minimise and prevent pollution of the land and the water environment and in accordance with national planning policy guidance set out in section 11 of the National Planning Policy Framework, and in order to protect human health and the environment in accordance with policy EQ1 of the adopted East Herts District Plan 2018.

The full letter is attached within **Appendix H**.

WSP assume similar planning conditions will be generated for the 2023 application however state that a generic, as appose to detailed, quantitative risk assessment would be more required for this site.

BUILDING CONTROL OFFICER (BCO)

The Building Control Officer for East Hertfordshire District Council was contacted on 27th May 2022. No response has been received to date, however if any pertinent information is received this will be added to this report as an addendum.

ENVIRONMENT AGENCY (EA)

The Environment Agency was contacted on 27th May 2022. No response has been received to date, however if any pertinent information is received this will be added to this report as an addendum.

6 CONCEPTUAL SITE MODEL (CSM)

6.1 INTRODUCTION

The preliminary CSM is based upon the environmental conditions of the Site as described in the previous sections.

The methods used within this assessment follow a risk-based approach; with the potential environmental risk assessed qualitatively using the ‘source-pathway-receptor’ contaminant linkage concept introduced in the guidance documents (principally the EA’s LCRM 2020) on the practical implementation of the Environmental Protection Act 1990.

Environmental risk can be defined as the combination of the consequence of a harmful effect and the probability of its occurrence. The existence of a contaminant linkage is primarily dependant on site usage and environmental conditions.

The environmental risk assessment has been carried out by identifying and evaluating the significance of the following:

- Potential Sources of Contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the Site;
- Potential Pathways for Contamination Migration: these are the routes or mechanisms by which contaminants may migrate from the source to the receptor; and
- Potential Receptors of Contamination: these include present or future land users, activities, or persons at the Site.

The preliminary CSM was developed based on the proposed mixed end use of residential and commercial end use at the site. A summary of the applicable legislative and planning framework for the assessment is presented in **Appendix G. Table 6-1** provides a key to the potential pathways and receptors identified at the Site. The on-site preliminary CSM is presented in **Table 6-2**, and the off-site CSM in **Table 6-3**.

Table 6-1 - Potential Pathways

Receptor Type	Receptors	Potential Pathways			
		On-site contaminant source	On-site ID	Off-site contaminant source	Off-site ID
Human Health	Site users (current and future maintenance workers)	<ul style="list-style-type: none"> ■ Dermal contact with contaminated soils and waters ■ Inhalation of contaminated soils, waters, and vapours/gas ■ Ingestion of contaminated soils and waters 	1	Inhalation/ingestion of contaminated soils in airborne dust	6
	Neighbouring site users	<ul style="list-style-type: none"> ■ Inhalation/ingestion of contaminated 	2	Not relevant	-

Receptor Type	Receptors	Potential Pathways			
		On-site contaminant source	On-site ID	Off-site contaminant source	Off-site ID
		soils in airborne dust			
Groundwater	Groundwater in Secondary (A) and Undifferentiated Aquifer (Glaciofluvial Deposits and Lowestoft Formation; and Principal Aquifer (White Chalk Sub-group)	<ul style="list-style-type: none"> ■ Leaching of contaminants from soils ■ Migration of contamination in groundwater ■ Migration of immiscible contaminants ■ Infiltration of contaminated surface water 	3	Migration of contaminated groundwater, surface water or immiscible contaminants	7
Surface Water	Onsite and adjacent drains River Rib100m east	<ul style="list-style-type: none"> ■ Runoff of contaminated surface water ■ Migration of immiscible contaminants 	4	Migration of contaminated groundwater, surface water or immiscible contaminants	8
Building Structures	Buried Concrete and potable water supply pipes	Direct contact with contaminated soils, groundwater, or immiscible contaminants	5	Migration of contaminated groundwater, surface water or immiscible contaminants	9

Table 6-2 - On-site conceptual site model

Location	Source	Potential Contaminants	Pathway ID (Table 6-1)	Comment on Hazard Realisation	Risk Rating
Entire Site	Current and historical use as agricultural land	Agricultural chemicals, including fertiliser (ammonia and ammonium) and pesticides (nitrite and nitrates). Fuel spills from machinery/tanks or chemical spills.	1-5	<ul style="list-style-type: none"> Application of chemicals onto the agricultural land / fuel spills. There may be the potential for construction and maintenance workers; and future Site users to come into contact with impacted materials within the ground, however this is likely to be minimal due to the absence of contamination sources and mitigation measures that will be put in place. There may be the potential for any contaminated soils to leach into underlying groundwater. There may be the potential for impacted groundwater to migrate vertically and laterally across the site into the Secondary (A) and Secondary Undifferentiated Aquifer of the Glaciofluvial and Lowestoft Formation, and underlying Principal Aquifer of the White Chalk Sub-group. Potential for undocumented burials. 	LOW to MODERATE
Entire Site	Made Ground from current and historic site use localised across the site and within the southern corner within the current storage yard.	A wide range of potential contaminants, depending on the source of material, but may include asbestos, metals, cyanide, hydrocarbons, polycyclic aromatic hydrocarbons (PAHs). There is the potential for ground gas generation from the Made Ground.	1-5	<ul style="list-style-type: none"> Made Ground was noted to be present during previous investigations and is likely to be present in the storage yard in the south of the site. There is also the potential for Made Ground to be present in the soils in the vicinity of the A10 from previous construction. There may be the potential for construction and maintenance workers; and future Site users to come into contact with impacted materials within the ground, There is the potential for the lateral and vertical migration of contaminants within the groundwater of the Secondary (A) and Undifferentiated Aquifers. It is likely that water bodies within the Lowestoft Formation are in hydraulic continuity with the underlying chalk. During flooding events there may be potential for any surface and / or near surface contaminants to mobilise and migrate laterally onto site. Ground gas generated from the Made Ground has the potential to migrate laterally through granular deposits across the entire site, and off-site. 	LOW to MODERATE
West of the Site	Category 2 – Significant land impact from sewage, dated October 2014 (Ref: 12836565)	Raw sewage	1-5	<ul style="list-style-type: none"> There may be the potential for construction and maintenance workers; and future Site users to come into contact with impacted materials within the ground, however due to the age of the event and due to a lack of an ongoing source risks are likely to be minimal There may be the potential for any contaminants to migrate vertically and laterally into groundwater into the Principal Aquifer. 	LOW
South of the Site	Storage yard and stockpiled materials	A wide range of potential contaminants depending on the source of material but may include, asbestos, metals, PCBs, hydrocarbons, PAH, volatile organic compounds (VOCs) and semi volatile compounds (SVOCs), phenols and pathogens.	1-5	<ul style="list-style-type: none"> It is unknown whether good environmental management practises have been undertaken. There may be the potential for surface water run-off from stockpiled materials to have migrated into the underlying soils / groundwater There is the potential for the lateral and vertical migration of contaminants within the groundwater. 	LOW to MODERATE

Table 6-3 - Off-site conceptual site model

Location	Source	Potential Contaminants	Pathway ID (Table 6-1)	Comment on Hazard Realisation	Risk Rating
Surrounding land uses within 250m of the site.	Surrounding current and historical uses as detailed in Table 3-2 and 5-1 and Section 4.8 . Including sewage works, agricultural land; nearby commercial developments	A wide range of potential contaminants depending on the source of material but may include, raw sewage, asbestos, metals, PCBs, hydrocarbons, PAH, VOCs and SVOCs, phenols and pathogens.	6-9	<ul style="list-style-type: none"> It is unknown whether good environmental management practises have been undertaken at the surrounding land uses. The Sewage works is present adjacent to the southeast of the site and likely downgradient. A number of industrial and engineering buildings are present within 250m of the Site. Many of these buildings have had changes to land use overtime, therefore it is unknown whether these sites have been remediated during their construction and redevelopment. Made Ground has been shown to now be present in these areas. These units are likely to also lie downgradient from the site. Ground gas has the potential to migrate on-site from offsite sources such as the sewage works and artificial ground to the southeast of the site. There is a possibility of flooding events around the time of pollution incidents or during historical works and therefore Shallow impacted groundwater may have had the potential to laterally migrate onto site. 	LOW TO MODERATE
101m North	Current Fuel Station	A wide range of potential contaminants including asbestos, metals, hydrocarbons, VOCs, SVOCs, PAHs and ground gas.	6-9	<ul style="list-style-type: none"> The fuel station is located downgradient of the site and therefore any residual contamination is unlikely to have a significant effect on the current site. A new build residential development, which lies adjacent to the northern boundary has been constructed following the construction of the fuel station. It is not apparent that remediation works were required. 	LOW

7 GEOTECHNICAL CONSIDERATIONS

7.1 GEOTECHNICAL HAZARDS

A list of ground stability hazards and the risk, as reported by Envirocheck, on the current site are summarised in **Table 7-1**.

Table 7-1 - Geotechnical Hazards

Ground Stability Hazard	Risk
Collapsible Ground	Very Low
Compressible Ground	Very Low
Ground Dissolution	No Hazard to Very Low
Landslide	Very Low
Running Sand	Very Low
Shrinking or Swelling of Clay	No Hazard to Low

7.2 GEOTECHNICAL CONSTRAINTS

Table 7-2 - Geotechnical Constraints

Geotechnical Constraints	Comments
Aggressive Ground	Deep Made Ground is not anticipated on the site. Shallow Made Ground was identified from the recent investigation to a maximum depth of 0.29m bgl located in the central eastern portion of the site. Made Ground may also be located along the western and southern boundary of the site from the A10 construction.
Below ground obstructions	No obstructions were identified during the previous investigation and are not expected due the site use historically remaining undeveloped.
Lateral changes in geology	The geology was relatively similar in thickness across the site.
Soft/Compressible Ground	The investigation encountered Made Ground/Topsoil underlain by the Lowestoft Formation predominantly comprising firm slightly sandy gravelly clay. The Made Ground/Topsoil and clay of the Lowestoft Formation may have the potential to be compressible.
Excavations	Excavations within the Lowestoft Formation are considered to be stable. Should any other deposits be encountered such as a significant thickness of Made Ground or the Glaciofluvial deposits these should be considered as potentially unstable.

Geotechnical Constraints	Comments
Shallow Groundwater	<p>Shallow groundwater is likely to be present in the east of the site.</p> <p>The hydrogeological map of the area between Cambridge and Maidenhead (1984) from the British Geological Survey shows groundwater on the site is approximately 85m above ordnance datum (m AOD).</p>
Unexploded Ordnance (UXO)	<p>Publicly available mapping from Zetica has stated that the site and surrounding area are at a low risk from UXO, and no further measures are required.</p> <p>The risk mapping is presented in Appendix F.</p>
Slopes	<p>The central northern part of the site forms a topographic high-point and slopes down to the north-eastern boundary and down to the south of the site. The site also gradually slopes down from west to east. Mapping indicates the highest point on the site is found in the north-west at 123m AOD and the lowest is found in the east at 88m AOD.</p>
Desiccated Soils	<p>The Lowestoft Formation was noted to be dry and very friable.</p>

7.3 PRELIMINARY GEOTECHNICAL APPRAISAL

Shallow foundations are considered suitable within the firm clay within the Lowestoft Formation. An approximate bearing capacity of 100kPa is considered appropriate at a founding level of 1.0m bgl.

This appraisal does not take into account serviceability requirements and the net allowable bearing capacity used for detailed design will need to be determined following an assessment of structural loadings and settlement tolerances.

If high loads are proposed or the proposed development has stringent settlement criteria piled foundations may be required. Further assessment would be required to determine the material properties for a piled foundation solution.

It is anticipated that the residential properties will be of traditional beam and block construction, which is a form of suspended slab. All formation levels should be proof rolled and any loose, soft, organic or otherwise unsuitable materials should be removed and replaced with well compacted granular fill.

Based on the nature of the underlying soils, typically comprising soft to firm clay within the Lowestoft Formation, it is considered that a CBR of <2% should be assumed for preliminary design purposes.

Confirmatory in-situ tests are recommended during construction.

Following excavation to formation level, the subgrade should be proof rolled with a heavy roller, inspected by an engineer and any soft spots removed and replaced with well compacted granular fill. Any sub structure remains should be “grubbed out” to a minimum depth of 500mm below the underside of the formation to prevent hard spots from forming voids, or low areas should be



backfilled with granular fill and appropriately benched to ensure a gradual transition between the fill and the adjacent ground.

Infiltration testing in accordance with 'Soakaway Design' BRE 365 was undertaken within the Lowestoft Formation to confirm a representative infiltration rate. Four tests were completed across the site in the south-east, central and northern area.

The results obtained from the soakaway tests indicated that infiltration is not feasible in the Lowestoft Formation across the site. The poor infiltration encountered across the site is supported by field observations which confirm a high clay content.

8 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of this preliminary assessment, WSP makes the following conclusions in the context of the proposed commercial end use at the Site.

8.1 ENVIRONMENTAL SETTING

The ground profile at the site is likely to comprise Made Ground / Topsoil, underlain by the Lowestoft Formation which in turn is underlain by the Lewes Nodular Chalk Formation and Seaford Chalk Formation (White Chalk Sub-group). Glaciofluvial Deposits have the potential to be present in the easter and in the north-west of the site.

The White Chalk Sub-group is classified by the Environment Agency (EA) as a Principal Aquifer; the Lowestoft Formation is classified as a Secondary (Undifferentiated) Aquifer and the Glaciofluvial Deposits as a Secondary (A) Aquifer.

The site is located within an EA Source Protection Zone III (SPZ3).

The nearest surface water features are noted to be a land drain located in the central portion of the site running west to east which is likely attributed to the drainage ditches of the A10 which is also shown in the north-west of the site. The River Rib is located 100m east of the site flowing to the south.

It is anticipated that surface water and any groundwater flow direction will be to the east / south-east, towards the River Rib.

8.2 POTENTIAL FOR GROUND CONTAMINATION

WSP considers that on-site sources of potential contamination are associated with the current and historical use of the site as agricultural land , site use in the south as a storage yard and historical pollution incidents.

Potential off-site sources of contamination include the surrounding current and historical land uses including a sewage works and surrounding industrial developments.

Plausible contaminant linkages have been identified with respect to human health including dermal contact with inhalation of soils, dust, gas and vapours or ingestion of contaminated soils, dust, or water. Plausible contaminant linkages identified to controlled waters include the possibility of leaching of contaminants from the unsaturated zone, lateral migration of contaminants in surface water on to, and off of the Site and lateral migration of contaminated groundwater from up gradient off-site sources on to the Site.

Plausible contaminant linkages to building structures include direct contact with contaminated soils, groundwater, or immiscible contaminants.

The potential receptors were identified as:

- Current and future site users, including construction and maintenance workers;
- Secondary (A) Aquifer (Glaciofluvial Deposits) Secondary Undifferentiated Aquifer (Lowestoft Formation), and Principal Aquifer (White Chalk Sub-group)
- Onsite and adjacent drains and the River Rib located 100m east
- Site structures, particularly any potable water supply pipes.



In conclusion, the Preliminary Risk assessment indicates generally a **Low to Moderate** risk to human health, controlled waters, and site structures.

8.3 GEOTECHNICAL CONCLUSIONS

It is anticipated the units will be founded on shallow footings within the Lowestoft Formation, however this will be dependent on the strength / density of the near surface natural soils, proposed structural loads and thickness of any Made Ground.

It is likely that suspended floor slabs of beam and block construction are to be used for the residential properties.

A targeted intrusive ground investigation is required to inform on subsequent stages of design.

8.4 RECOMMENDATIONS

WSP recommends the following actions are undertaken:

- An intrusive ground investigation should be undertaken to assess:
 - Baseline ground conditions at the site and investigations of contaminant concentrations, ground gas and groundwater monitoring; and,
 - Geotechnical parameters to assist subsequent design.
- Following the ground investigation, an interpretative Ground Investigation Report (GIR) should be produced including an assessment of the risk from contamination at the site and a preliminary geotechnical appraisal.

These works can be undertaken taken by way of condition post planning submittal and during the design stage.

Appendix A

FIGURES



Appendix A.1

WSP FIGURES





Legend

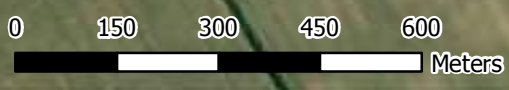
- Sie Boundary
- + BGS Boreholes



TITLE:
Land at West Buntingford
Site Location Plan

FIGURE No:
FIGURE 1

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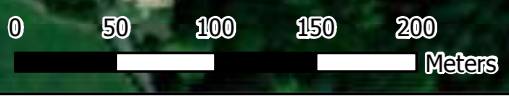


Legend

- Site Boundary
- Photo Locations



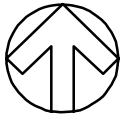
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

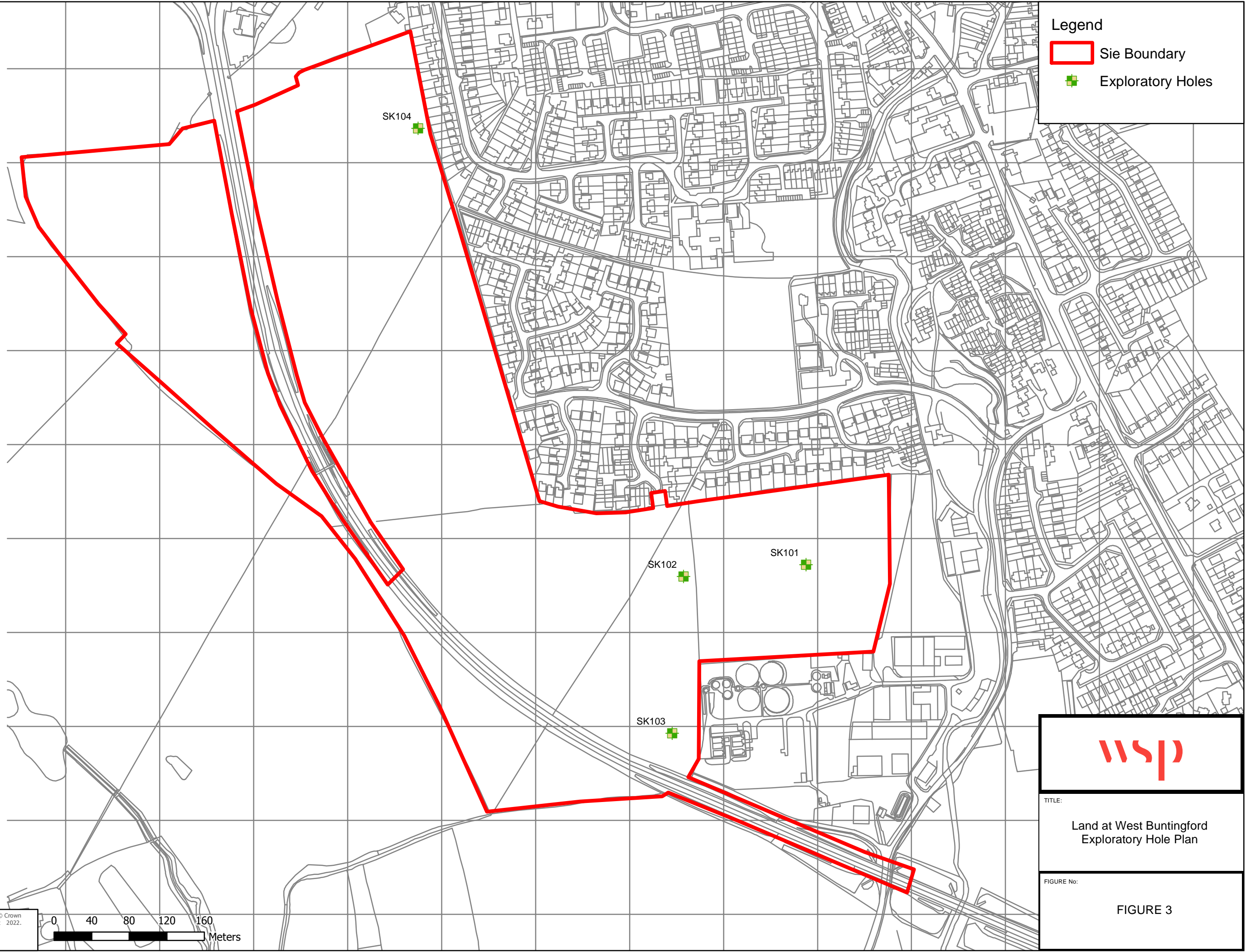
TITLE:
Land at West Buntingford
Site Layout Plan

FIGURE No:
FIGURE 2


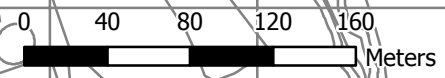


Legend

-  Sie Boundary
-  Exploratory Holes



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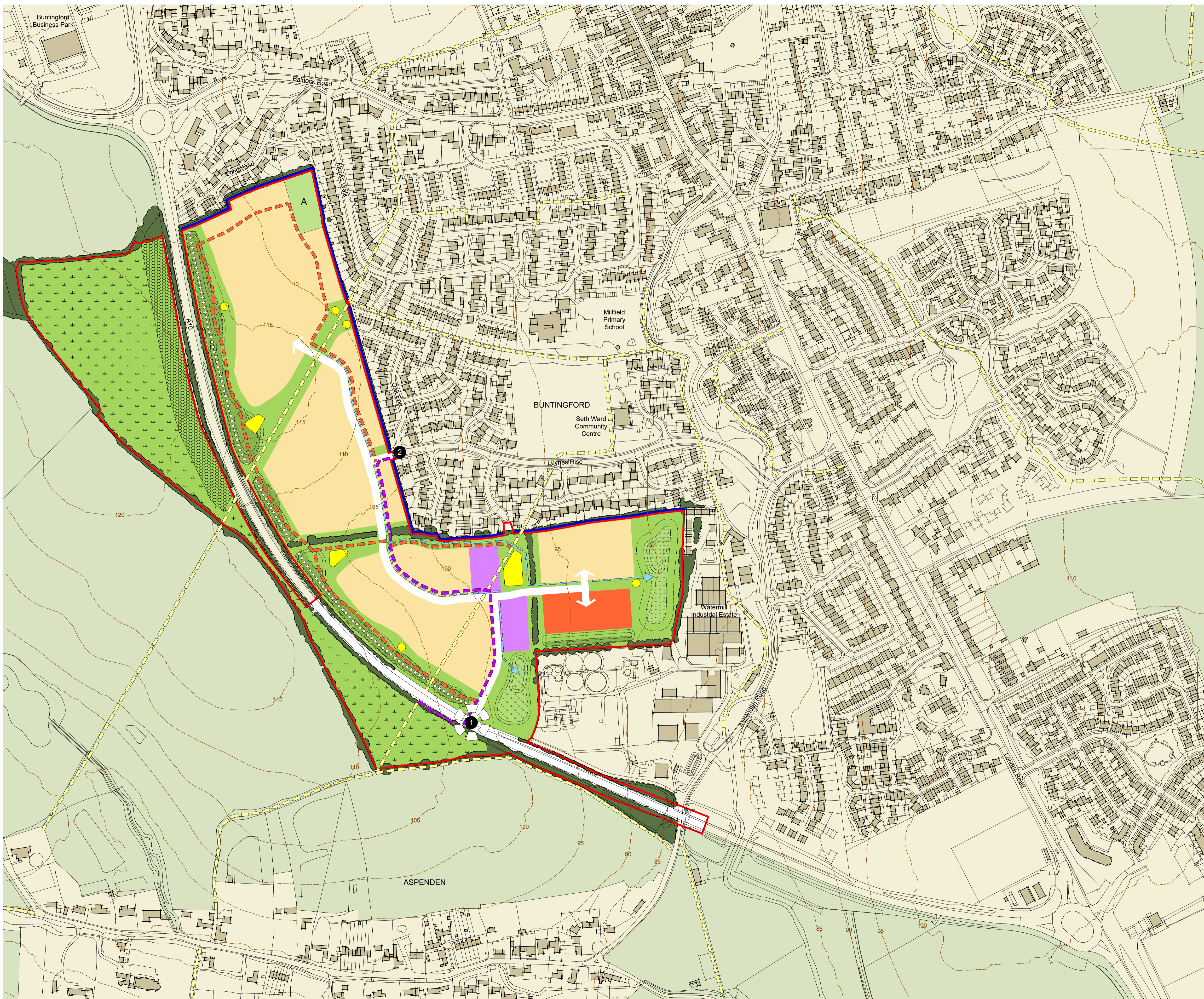
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**Land at West Buntingford
Exploratory Hole Plan**

FIGURE No:
FIGURE 3

Appendix A.2

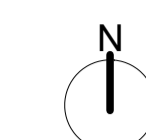
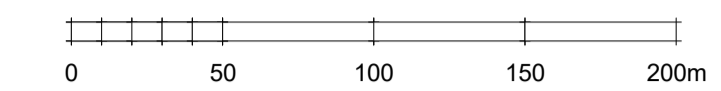
THIRD PARTY FIGURES





NOTES

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KEY

- Application boundary
- Land under the control of the applicant
- Residential
Up to 350 dwellings at approx. 35 dwellings per hectare average
- Employment
Use Classes E and B8
- Local Centre
Use Class E
- Children's Equipped Play Area
- Allotments
- Recreational Route
- Footway Cycleway
- Existing Public Right of Way
- Indicative Acoustic Fence on Bund with Proposed Planting
- Indicative Attenuation Feature
- Potential Swale
- Retained agricultural land
- Ecological enhancement area
- 1 Proposed vehicular, pedestrian and cycle access from A10
- 2 Proposed bus link, pedestrian and cycle access from Luynes Rise
- ⊙ Indicative proposed roundabout

P03	26/05/2023	Title block and key amended.	JMG	KMN
P02	19/05/2023	A10 access amended; minor amendments.	JMG	KMN
P01	21/04/2023	First issue.	JMG	KMN

rev	date	description	dm	chk
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client
Countryside Partnerships and Vistry Homes

project
Buntingford West,
Buntingford, Hertfordshire

drawing title
DEVELOPMENT FRAMEWORK PLAN

scale
1:2500 @ A1

project number
10537

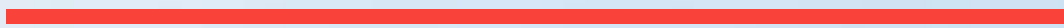
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10537-FPCR-XX-XX-DR-A-1002

Project Code: Originator: Date: Last: Type: File: Drawing Number

File: L:\10500\10537\ARCH\Drawings\10537-FPCR-XX-XX-DR-A-1002-P03_DFP.vxd

Appendix B

LIMITATIONS





REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.
17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.

20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.
24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

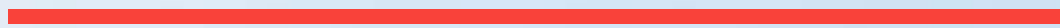
26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
28. The data is presented and will be compared with assessment criteria.

Appendix C

SITE PHOTOGRAPHS





Photograph 1 – Public footpath across the central portion of the site.



Photograph 2 – Eastern Field.



Photograph 3 – Public footpath across the central portion of the site



Photograph 4 – Southern field corner of site with mature trees.



Photograph 5 – Field in the south of the site.



Photograph 6 – North-western corner of site with mature trees



Photograph 7 – North-eastern border of the site.



Photograph 8 – North-western border of the site.



Photograph 9 – Photo of central portion of the site with mature trees.



Photograph 10 – Public footpath running south-west to north-east across the northern field of the site.



Photograph 11 – Footbridge across the A10.



Photograph 12 – Site access point to both sites of the site from the A10.



Photograph 13 – Soil and manure pile near southern entrance



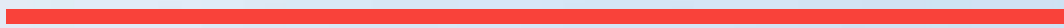
Photograph 14 – 2m high bund separating the site from a storage yard found within the site boundary

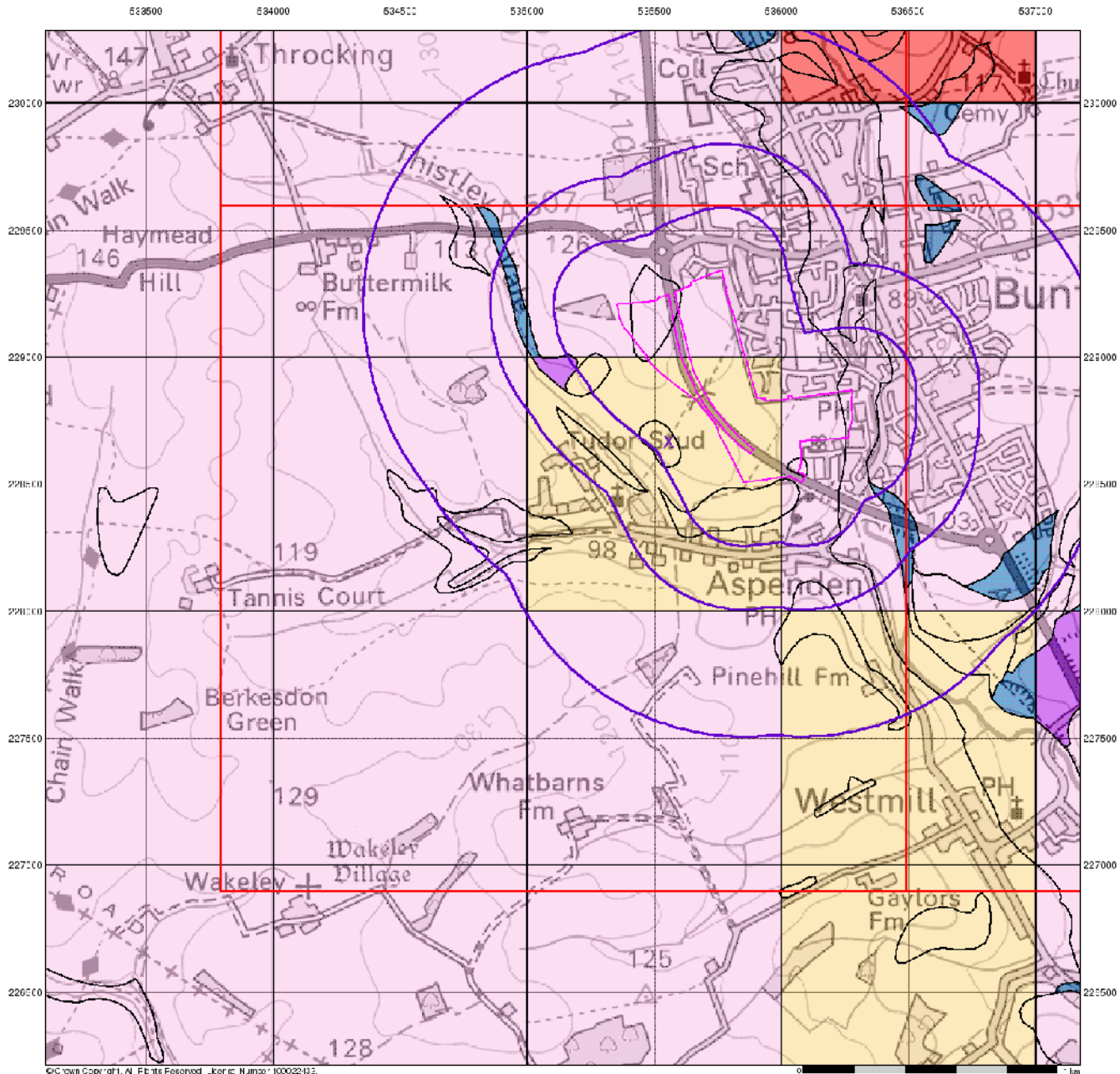


Photograph 15 – An active sewage treatment plant found to the south-east of the site

Appendix D

ENVIROCHECK REPORT





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Groundwater Vulnerability

General

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

Agency and Hydrological

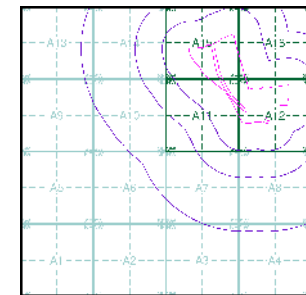
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer
- Soluble Rock

Superficial Aquifers

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

Site Sensitivity Context Map - Slice A



Order Details

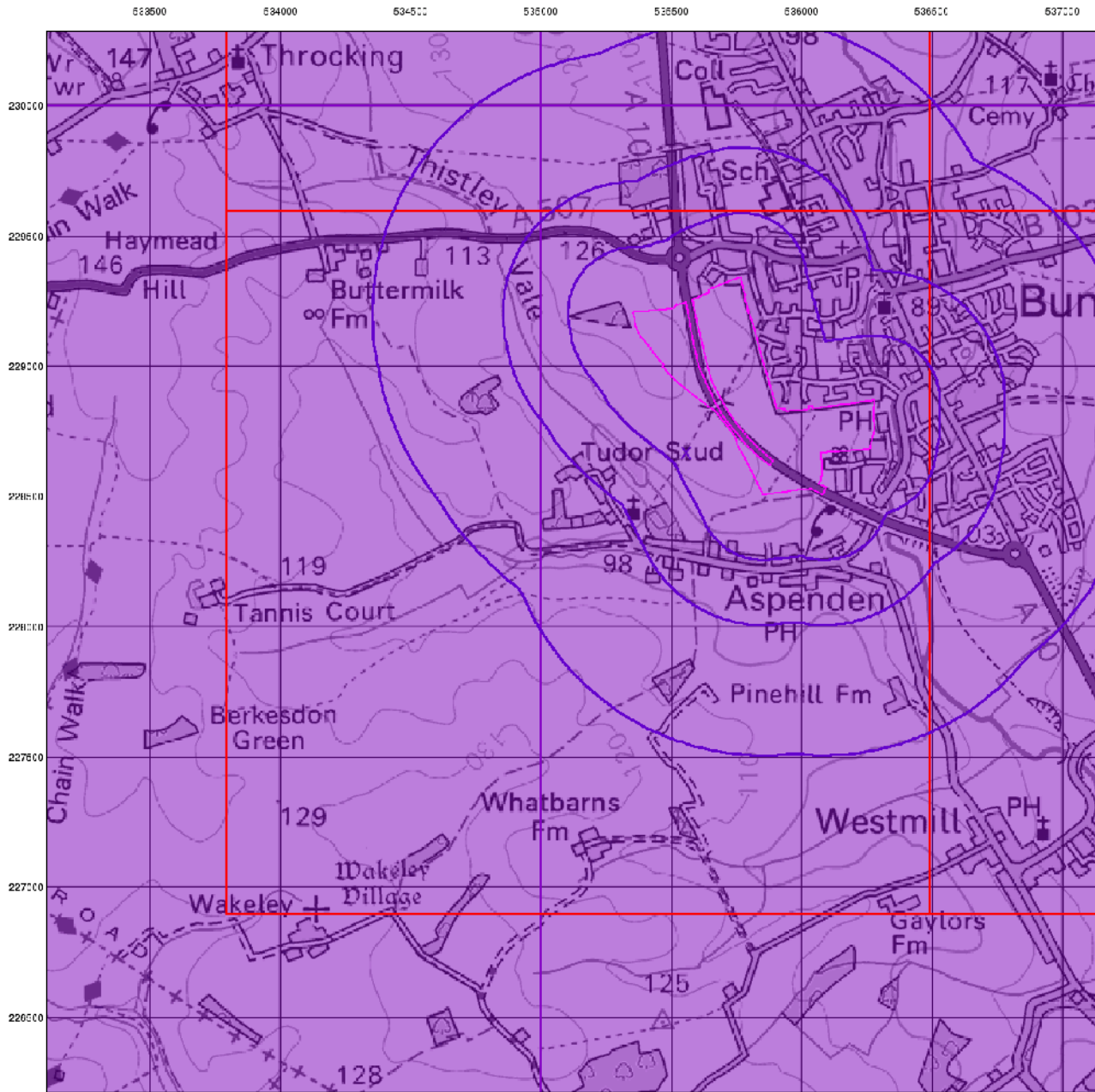
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



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0 1 km



Bedrock Aquifer Designation

General

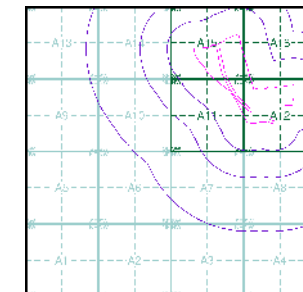
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

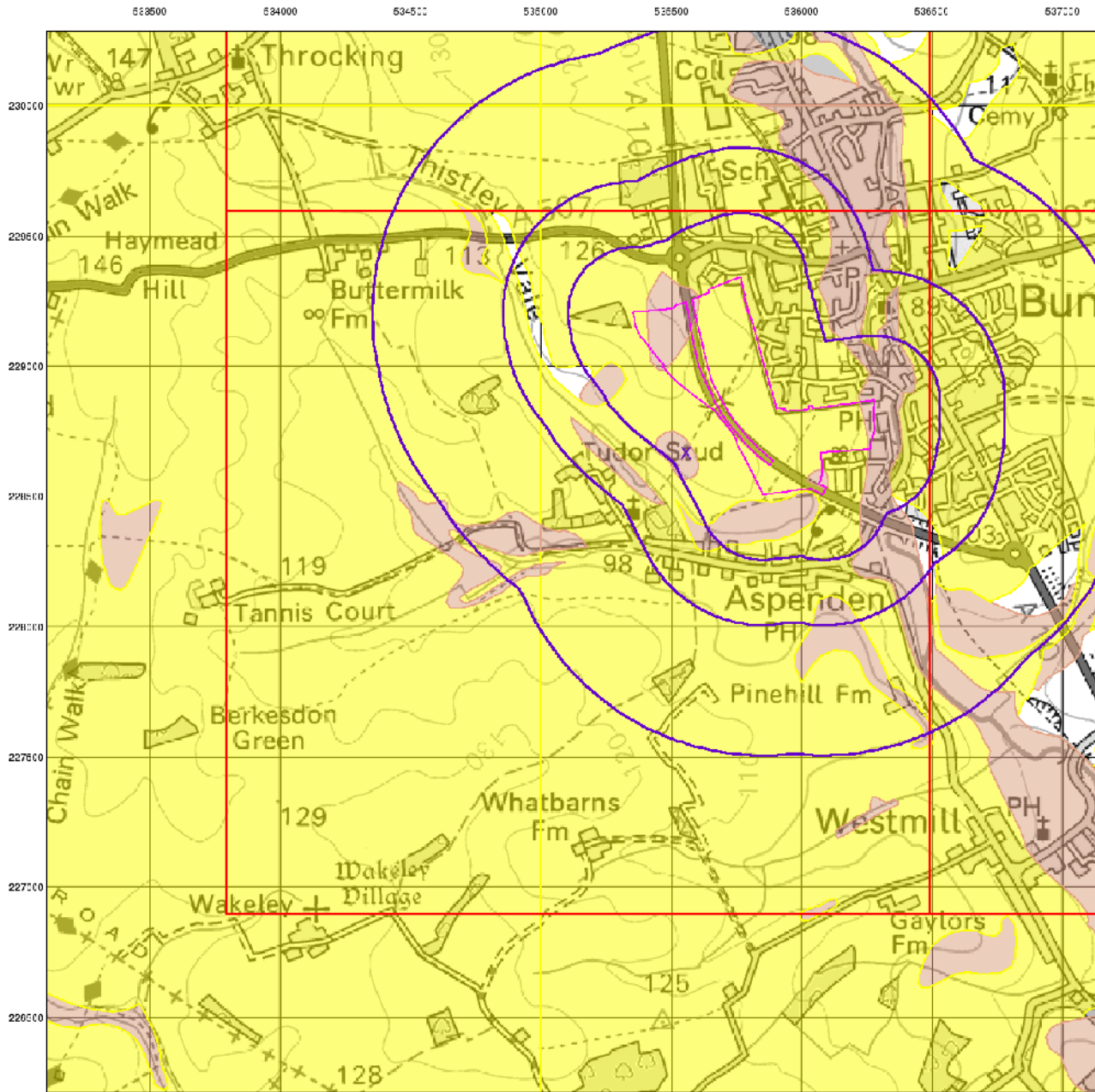
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 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

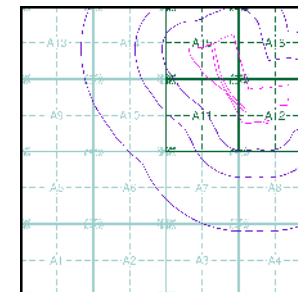
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

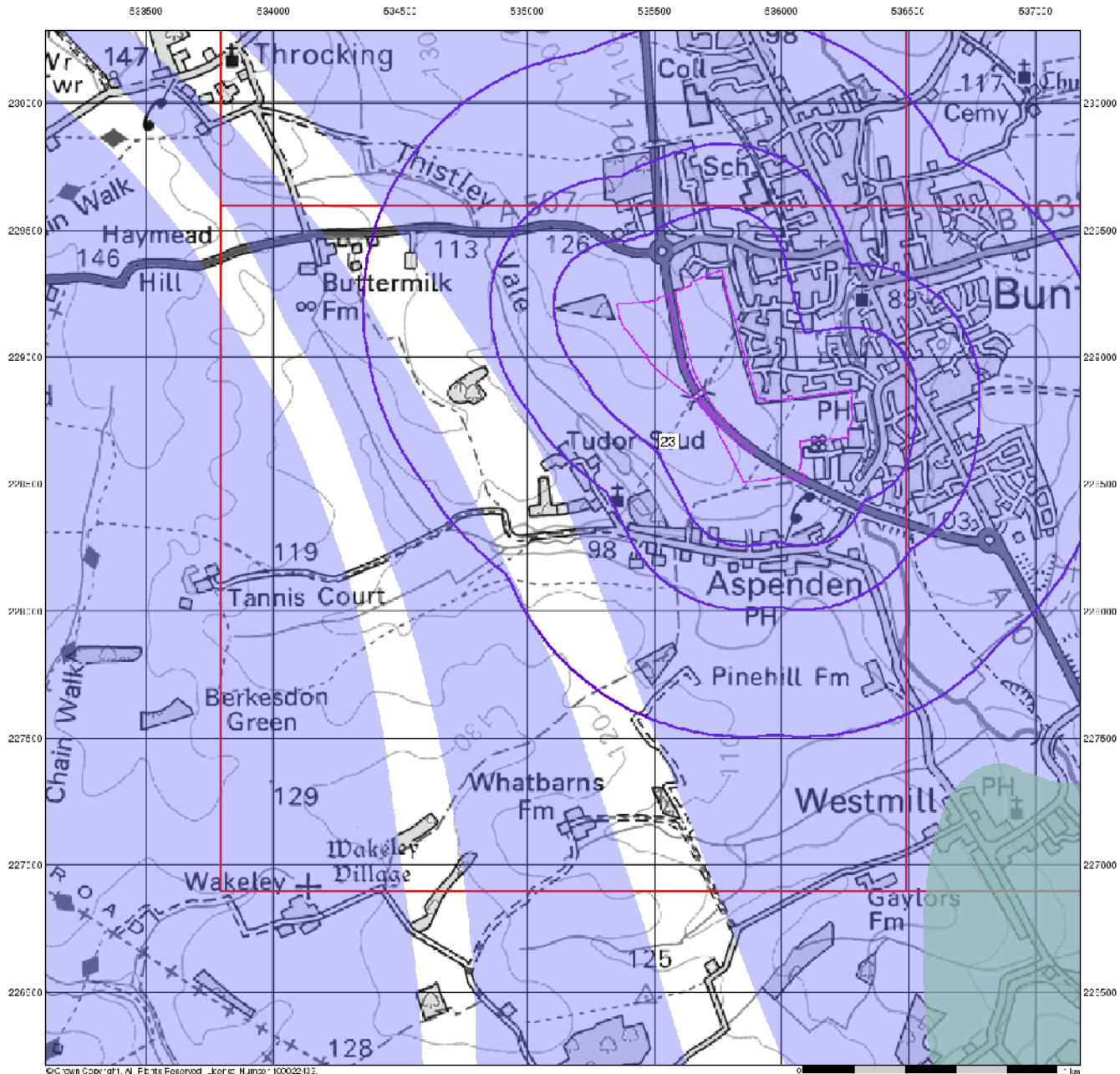
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

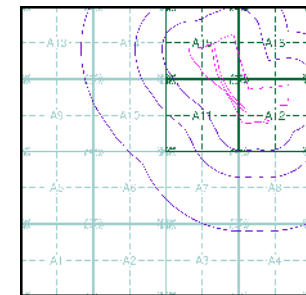
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

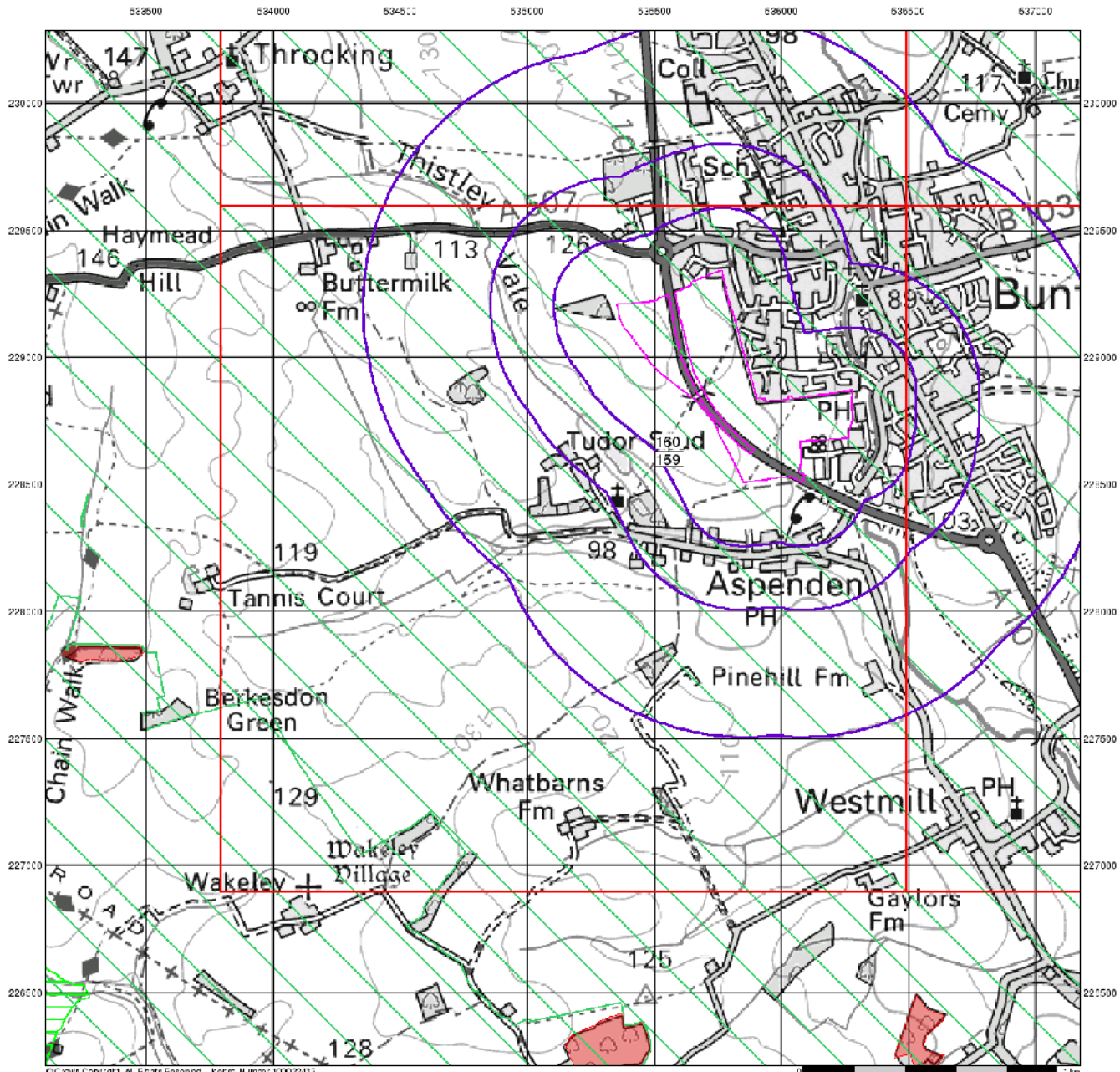
Order Number: 296189182_1.1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

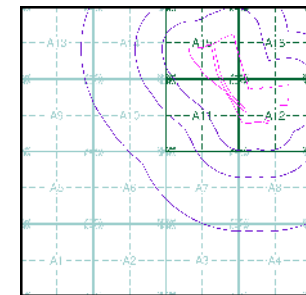
General

- 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

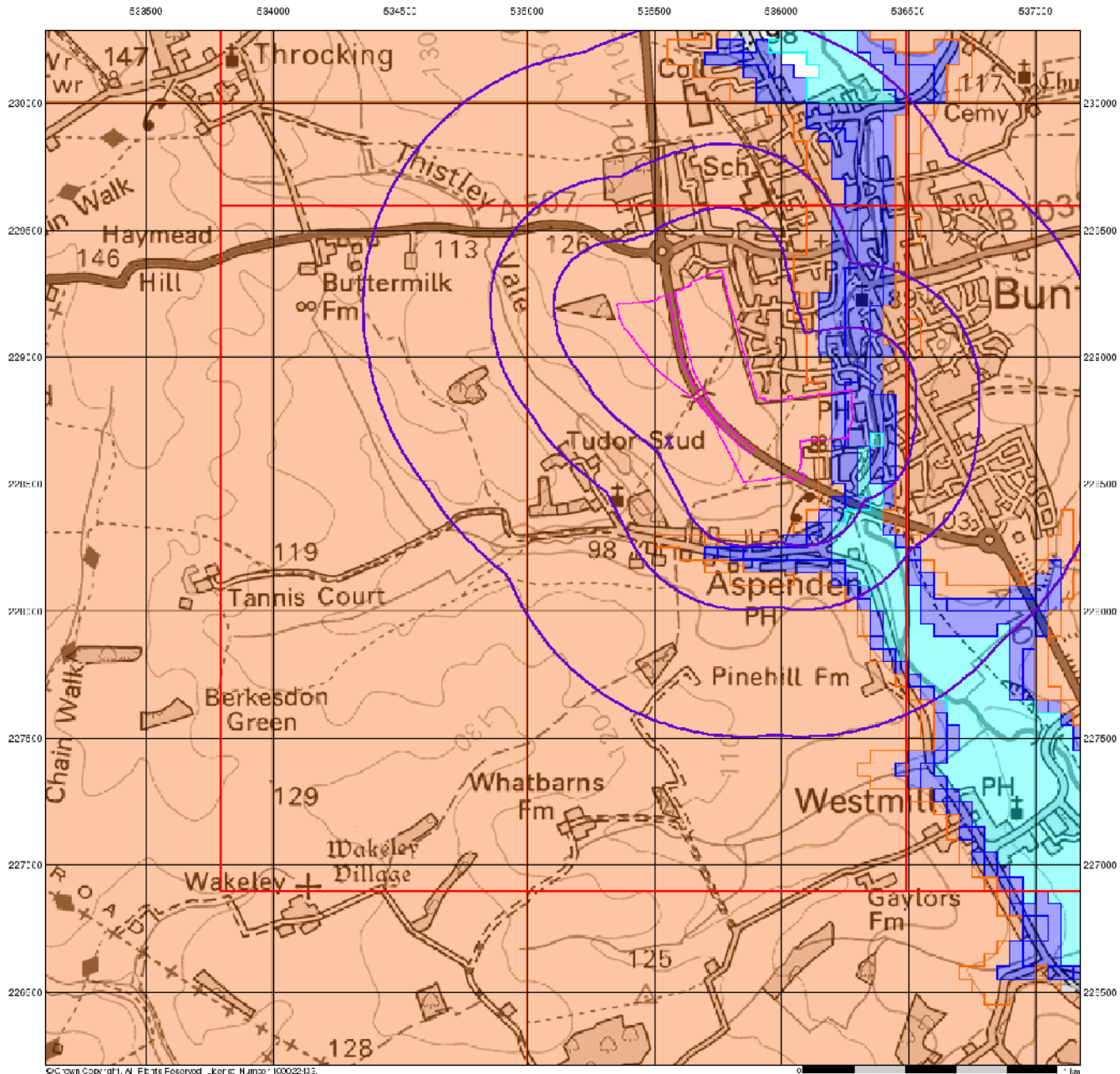
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

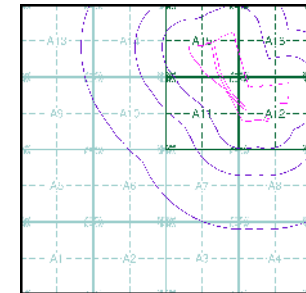
General

- 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: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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 Fax: 0844 844 9951
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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

296189182_1_1

Customer Reference:

70088938-L01

National Grid Reference:

535560, 228670

Slice:

A

Site Area (Ha):

28.24

Search Buffer (m):

1000

Site Details:

Land west of Buntingford

BUNTINGFORD

SG9 9FG

Client Details:

MR M Wheeler

WSP UK Ltd

Unit 9 The Chase

John Tate Road

Foxholes Business Park

Hertford

SG13 7NN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	-
Geological	25
Industrial Land Use	30
Sensitive Land Use	40
Data Currency	41
Data Suppliers	47
Useful Contacts	48

Introduction

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

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Report Version v53.0

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 3		21	2	
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 8		1	2	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 9		2	3	4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 10		1		
River Quality Biology Sampling Points	pg 11		1		
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 11	1	1		
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 13	3	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			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	pg 13	1			
Extreme Flooding from Rivers or Sea without Defences	pg 13		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 14		Yes	n/a	n/a
OS Water Network Lines	pg 14	10	14	31	13



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 23		1	1	
Local Authority Landfill Coverage	pg 23	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 23				2
Potentially Infilled Land (Water)	pg 23		3	7	1
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 24		2		
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



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 25	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 25	Yes	Yes	Yes	
BGS Recorded Mineral Sites	pg 26			1	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 27	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	Yes	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 30		48	8	4
Fuel Station Entries	pg 35		1	1	
Points of Interest - Commercial Services	pg 35		14	3	1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 37		7	1	1
Points of Interest - Public Infrastructure	pg 37		13	2	1
Points of Interest - Recreational and Environmental	pg 39		1	1	
Gas Pipelines					
Underground Electrical Cables					



Summary

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 40	2			
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	A12NE (E)	0	1	536200 228650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	0	1	536200 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	0	1	536100 228900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (NE)	0	1	535556 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SE)	49	1	536200 228350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	72	1	536350 228850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (E)	83	1	536350 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	92	1	536350 228650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (SE)	109	1	536100 228400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (E)	122	1	536400 228850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	123	1	536400 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (SE)	127	1	536150 228400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	131	1	536200 228450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (SE)	157	1	536050 228350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (SE)	158	1	536100 228350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (SE)	171	1	535850 228250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	176	1	536250 228450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (SE)	207	1	535750 228300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (SE)	207	1	536000 228300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	222	1	536500 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	228	1	536400 228500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (S)	257	1	535556 228300



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	A11SE (SE)	258	1	535800 228250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (SE)	263	1	535750 228250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (S)	277	1	535700 228250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SE)	307	1	535850 228200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (S)	308	1	535700 228200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	329	1	536200 228200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	352	1	535000 228670
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SE (NE)	354	1	536400 229200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (E)	355	1	536400 228350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SE)	364	1	536150 228150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	376	1	536200 228150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	395	1	536250 228150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SE)	422	1	536450 228300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	440	1	536250 228100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	450	1	536500 228300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	462	1	536300 228100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	487	1	536250 228050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	491	1	536500 228250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Aspenden - Aspenden Bridge Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0364 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Bourne Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	24	2	536300 228800
1	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Aspenden - Aspenden Bridge Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0364 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Bourne Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	24	2	536300 228800
2	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 3 Effective Date: 9th November 2004 Issued Date: 5th February 1998 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Rib Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	27	2	536200 228650
3	<p>Discharge Consents</p> <p>Operator: Rialto Builders Ltd. Property Type: Undefined Or Other Location: Final Phase, Layston Lodge, Buntingford, Herts. Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0559 Permit Version: 1 Effective Date: 12th December 1985 Issued Date: 12th December 1985 Revocation Date: 1st August 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Rib Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A16SE (E)	104	2	536300 228970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 8 Effective Date: 6th January 2020 Issued Date: 6th January 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	117	2	536380 228670
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 8 Effective Date: 6th January 2020 Issued Date: 6th January 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	127	2	536390 228670
4	<p>Discharge Consents</p> <p>Operator: D & M (Herts) Ltd Property Type: REAL ESTATE ACTIVITIES/BUYING/SELLING/RENTING Location: Watermill Industrial Estate, Aspenden Road, Buntingford, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3171 Permit Version: 1 Effective Date: 6th March 1989 Issued Date: 6th March 1989 Revocation Date: 3rd June 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Rib Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	132	2	536400 228700
4	<p>Discharge Consents</p> <p>Operator: The Occupier Property Type: Undefined Or Other Location: St Francis House, Buntingford, Herts, Sg9 9jw Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.0021 Permit Version: 1 Effective Date: 3rd April 1985 Issued Date: 3rd April 1985 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Boulder Clay Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	132	2	536400 228700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2422 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 12th December 1997 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Rib Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	140	2	536400 228650
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CLCR.0091 Permit Version: 2 Effective Date: 19th September 1989 Issued Date: 9th December 1960 Revocation Date: 5th September 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Into And/Or Watercourse Environment: Receiving Water: Rib Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	140	2	536400 228650
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Clcr.0091 Permit Version: 1 Effective Date: 31st January 1985 Issued Date: 9th December 1960 Revocation Date: 18th September 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Into And/Or Watercourse Environment: Receiving Water: Rib Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	140	2	536400 228650
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Clcr.0091 Permit Version: 3 Effective Date: 6th September 1991 Issued Date: 9th December 1960 Revocation Date: 4th February 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Rib Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	140	2	536400 228650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 7 Effective Date: 1st April 2010 Issued Date: 1st April 2010 Revocation Date: 5th January 2020 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 7 Effective Date: 1st April 2010 Issued Date: 1st April 2010 Revocation Date: 5th January 2020 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 6 Effective Date: 1st April 2009 Issued Date: 28th January 2009 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 6 Effective Date: 1st April 2009 Issued Date: 28th January 2009 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 5 Effective Date: 29th June 2007 Issued Date: 29th June 2007 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 4 Effective Date: 1st April 2005 Issued Date: 31st March 2005 Revocation Date: 28th June 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Rib Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (E)	141	2	536390 228620
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Catm.3092 Permit Version: 1 Effective Date: 5th February 1998 Issued Date: 5th February 1998 Revocation Date: 5th November 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Rib Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	160	2	536400 228600
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.3092 Permit Version: 2 Effective Date: 6th November 1998 Issued Date: 5th February 1998 Revocation Date: 8th November 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Rib Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	164	2	536405 228600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Buntingford Wwtw Aspenden Lane . Buntingford Hertfordshire Sg9 9js Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.3096 Permit Version: 1 Effective Date: 9th January 1998 Issued Date: 12th December 1997 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	167	2	536405 228595
6	<p>Discharge Consents</p> <p>Operator: The Occupier Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Sunnyside Nursery, Baldock Road, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Clcu.0081 Permit Version: 1 Effective Date: 10th February 1967 Issued Date: 10th February 1967 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Not Supplied Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A15NW (N)	294	2	535440 229520
7	<p>Discharge Consents</p> <p>Operator: Mr W F Murphy Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Riverside Cottage, 12 Chapel End, Buntingford, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3279 Permit Version: 1 Effective Date: 21st April 1989 Issued Date: 21st April 1989 Revocation Date: 8th February 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Un-Named Trib Of The R. Rib Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A16SE (NE)	392	2	536260 229260
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Bp Express Location: Howe Green, Baldock Road, BUNTINGFORD, Herts, SG9 9DW Authority: East Hertfordshire District Council, Environmental Health Department Permit Reference: PPC/049 Dated: 10th February 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A15NE (N)	103	3	535602 229388
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Adam & Eve Service Station Location: Station Road, Buntingford, Hertfordshire, SG Authority: East Hertfordshire District Council, Environmental Health Department Permit Reference: EP/200500017 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorisation certificate surrendered by operator Positional Accuracy: Manually positioned to the address or location</p>	A16SE (NE)	348	3	536352 229208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Buntingford Dry Cleaners Location: High Street, Buntingford, SG9 9AQ Authority: East Hertfordshire District Council, Environmental Health Department Permit Reference: PPC/03358(10) Dated: 23rd December 2005 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the road within the address or location</p>	A16NE (NE)	486	3	536202 229555
	<p>Nearest Surface Water Feature</p>	A11NE (NE)	0	-	535725 228817
11	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 31st July 1992 Incident Reference: NE920417 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NE (E)	77	2	536200 228600
12	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th March 1992 Incident Reference: NE920136 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12SE (E)	185	2	536300 228500
13	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Aspenden Village Authority: Environment Agency, Thames Region Pollutant: Agricultural: General Note: Yes Incident Date: 8th March 1995 Incident Reference: NE950105 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A11SE (S)	327	2	535600 228300
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 4th March 1994 Incident Reference: NE940139 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NE)	432	2	536300 229300
15	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Aspenden Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th May 1994 Incident Reference: NE940305 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A7NE (S)	468	2	535500 228200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 25th September 1991 Incident Reference: NE910481 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NE)	532	2	536300 229400
17	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed incident Incident Date: 25th March 1999 Incident Reference: THNE1999042311 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m</p>	A16NE (NE)	546	2	536400 229400
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 20th July 1995 Incident Reference: NE950434 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NE)	557	2	536300 229500
19	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 26th December 1995 Incident Reference: NE950741 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NE)	592	2	536300 229595
	<p>River Quality</p> <p>Name: Rib GQA Grade: River Quality C Reach: Buntingford - Westmill Estimated Distance 2 (km): Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000</p>	A12NE (E)	36	2	536282 228652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	River Quality Biology Sampling Points Name: Rib Reach: Buntingford To Westmill Estimated Distance: 2.00 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A12NE (E)	140	2	536400 228650
21	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 3rd October 2014 Incident Reference: 1283656 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Other Sewage	A12SW (SE)	0	2	535863 228519
22	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 5th April 2005 Incident Reference: 303388 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Final Effluent	A12NE (E)	130	2	536391 228655
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial 3-10m Thickness: Superficial High Recharge:	A11NE (NE)	0	4	535579 228683
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial 3-10m Thickness: Superficial High Recharge:	A15SW (N)	0	4	535465 228981



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability</p> <p>Combined Vulnerability: Medium</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: 40-70%</p> <p>Superficial Patchiness: >90%</p> <p>Superficial Thickness: >10m</p> <p>Superficial Recharge: Low</p>	A12NW (E)	0	4	536000 228670
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability</p> <p>Combined Vulnerability: Medium</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: 40-70%</p> <p>Superficial Patchiness: >90%</p> <p>Superficial Thickness: >10m</p> <p>Superficial Recharge: High</p>	A15SE (N)	0	4	535556 229000
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability</p> <p>Combined Vulnerability: Medium</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: 40-70%</p> <p>Superficial Patchiness: >90%</p> <p>Superficial Thickness: >10m</p> <p>Superficial Recharge: High</p>	A15SE (N)	0	4	535491 229000
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability</p> <p>Combined Vulnerability: Medium</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: 40-70%</p> <p>Superficial Patchiness: >90%</p> <p>Superficial Thickness: >10m</p> <p>Superficial Recharge: Low</p>	A12SW (E)	0	4	536023 228560



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A12NE (E)	0	4	536222 228856
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A15SE (N)	0	4	535556 229000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A11NE (NE)	0	4	535556 228670
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A12NW (E)	0	4	536000 228670
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A11NE (NE)	0	4	535556 228670
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A12SW (E)	0	4	536023 228560
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A15SW (N)	0	4	535465 228981
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11NE (NE)	0	4	535579 228683
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A12NE (E)	0	4	536222 228856
23	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A11NE (NE)	0	2	535556 228670
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A12SE (E)	40	2	536266 228545
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A12SE (E)	68	2	536247 228531
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A16SE (NE)	95	2	536304 228993
	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	A12SE (E)	121	2	536245 228538
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A12SE (E)	123	2	536341 228575
	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	A12NE (E)	131	2	536397 228684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A12NE (E)	133	2	536391 228636
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A12NE (E)	135	2	536395 228651
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A12SE (E)	137	2	536231 228515
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A12SE (E)	202	2	536275 228442
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A16SE (NE)	237	2	536242 229105
	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	A16SE (NE)	245	2	536287 229115
	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	A11SW (SW)	77	2	535450 228575
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences Type: Flood Defences Reference: Not Supplied	A12SE (E)	89	2	536333 228582
	Flood Defences Type: Flood Defences Reference: Not Supplied	A16SE (NE)	231	2	536245 229106
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15SE (N)	0	5	535538 229239
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (E)	0	5	536063 228839
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535682 228812



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535686 228813
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535693 228814
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535723 228817
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535726 228817
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535731 228818
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535749 228820
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11NE (NE)	0	5	535752 228820
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	30	5	535554 229274
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	36	5	535573 229290



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	38	5	535578 229294
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (E)	50	5	536328 228873
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 201.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16SE (E)	92	5	536324 228975
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1092.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A12SE (E)	93	5	536336 228580
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	101	5	535691 229420
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	103	5	535700 229437
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (N)	113	5	535700 229437
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 350.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16SE (NE)	115	5	536238 229104
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (SE)	196	5	535814 228311



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (SE)	201	5	535780 228304
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (SE)	216	5	535776 228304
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (SE)	243	5	535766 228280
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	278	5	536018 228236
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 710.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	278	5	536021 228236
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	279	5	536010 228236
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	281	5	536006 228236
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	282	5	535922 228218
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	288	5	535839 228219



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	289	5	535839 228219
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NE (SE)	289	5	535793 228217
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	293	5	535902 228218
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	294	5	535906 228218
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 169.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	294	5	535838 228214
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A8NW (SE)	295	5	535918 228218
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NE (SE)	296	5	535788 228217
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NE (SE)	297	5	535769 228222
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SE (S)	297	5	535668 228251



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SE (S)	315	5	535577 228272
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 367.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A11SW (SW)	329	5	535442 228541
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1034.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A11NW (W)	344	5	535325 228650
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 106.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A11SW (SW)	347	5	535401 228578
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SE (S)	362	5	535560 228274
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16SE (NE)	384	5	536265 229255
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16SE (NE)	384	5	536272 229252
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16SE (NE)	391	5	536268 229259
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NE (NE)	403	5	536175 229380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NE (NE)	408	5	536246 229303
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NE (NE)	418	5	536255 229285
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NE (NE)	422	5	536254 229290
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SW (S)	443	5	535471 228278
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16NE (NE)	445	5	536343 229308
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 504.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SW (S)	445	5	535471 228278
78	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SE)	458	5	535836 228049
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16NE (NE)	516	5	536395 229371
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A14NE (NW)	573	5	534861 229500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 496.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A14NE (NW)	624	5	534809 229511
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 508.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A16NE (NE)	649	5	536393 229507
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NE (NE)	649	5	536393 229507
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 360.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A8SE (SE)	759	5	536467 227853
85	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A10SE (SW)	848	5	535020 228256
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A10SE (SW)	864	5	534997 228254
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A10SE (SW)	868	5	534990 228254
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A10SE (SW)	873	5	534983 228254
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SW (S)	904	5	535475 227685



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A6NE (SW)	918	5	534925 228244
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 243.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tannis Court Tributary Catchment Name: Thames Primacy: 1	A6NE (SW)	918	5	534925 228244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 80193 Location: Household Waste Recycling Centre, Aspenden Road, Buntingford, Hertfordshire, SG9 9PA Operator Name: Hertfordshire County Council Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Household Waste Amenity Sites Licence Status: Transferred Issued: 17th February 1977 Last Modified: 2nd September 2019 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12SE (E)	141	2	536316 228551
93	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 404799 Location: Unit 1, Baldock Road, Buntingford, Hertfordshire, SG9 9ER Operator Name: Urbaser Limited Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Household Waste Amenity Sites Licence Status: Modified Issued: 25th October 2018 Last Modified: 10th June 2020 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A15NW (N)	342	2	535397 229557
	<p>Local Authority Landfill Coverage</p> <p>Name: Hertfordshire County Council - Has supplied landfill data</p>		0	6	535556 228670
	<p>Local Authority Landfill Coverage</p> <p>Name: East Hertfordshire District Council - Has supplied landfill data</p>		0	3	535556 228670
94	<p>Potentially Infilled Land (Non-Water)</p> <p>Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978</p>	A10SE (SW)	738	-	535073 228354
95	<p>Potentially Infilled Land (Non-Water)</p> <p>Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978</p>	A10SW (W)	951	-	534654 228501
96	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A15NE (N)	114	-	535636 229414
97	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A16NW (NE)	127	-	535893 229356
98	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A12SW (SE)	231	-	535928 228284
99	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A15NE (N)	263	-	535509 229519
100	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A16NW (NE)	317	-	536050 229481
101	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960</p>	A8NW (SE)	338	-	536015 228176
102	<p>Potentially Infilled Land (Water)</p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923</p>	A16SE (NE)	365	-	536406 229210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A16NE (NE)	429	-	536202 229357
104	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A11SW (W)	473	-	535219 228578
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A7NE (S)	479	-	535493 228190
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A7NW (S)	527	-	535400 228237
107	Registered Waste Transfer Sites Licence Holder: Hertfordshire C.C. Waste Management Un. Licence Reference: 96/362 Site Location: Buntingford H.W.S, Aspenden Road, Buntingford, Hertfordshire, Sg9 9pa Operator Location: County Hall, Pegs Lane, HERTFORD, Hertfordshire, SG13 8DN Authority: Environment Agency - Thames Region, North East Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st February 1977 Preceded By: 06/S11 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Civic Amenity Waste Max.Waste Permitted By Licence Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S.	A12SE (E)	140	2	536310 228550
107	Registered Waste Transfer Sites Licence Holder: Herts C.C. Licence Reference: 06/S11 Site Location: Buntingford H.W.S, Aspenden Road, Buntingford, Hertfordshire, Sg9 9pa Operator Location: Goldings, North Road, HERTFORD, Hertfordshire, SG13 8DE Authority: Environment Agency - Thames Region, North East Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st February 1977 Preceded By: Not Given Licence: Superseded By: 96/362 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Commercial Waste	A12SE (E)	159	2	536350 228550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A11NE (NE)	0	1	535556 228670
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil 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: 30 - 45 mg/kg	A11NE (NE)	0	1	535556 228670
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (E)	67	1	536275 228529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A16SW (NE)	135	1	536000 229000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A16SE (NE)	188	1	536226 229103
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (E)	190	1	536345 228511
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A16SE (NE)	198	1	536388 229064

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (NW)	383	1	535000 229000
108	BGS Recorded Mineral Sites Site Name: The Thicket Gravel Pit Location: Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166704 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A14SE (NW)	301	1	535136 228942
109	BGS Recorded Mineral Sites Site Name: Aspenden Gravel Pit Location: Aspenden, Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166746 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	747	1	536295 227791
110	BGS Recorded Mineral Sites Site Name: Aspenden Gravel Pit Location: Aspenden, Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166705 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	797	1	535019 228323
111	BGS Recorded Mineral Sites Site Name: Aspenden Chalk Pit Location: Aspenden, Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166706 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A10SW (W)	962	1	534649 228489
111	BGS Recorded Mineral Sites Site Name: Aspenden Gravel Pit Location: Aspenden, Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166707 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A10SW (W)	994	1	534623 228470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	67	1	536275 228529
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	0	1	536075 228663
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535698 228784
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	1	1	536087 228515
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	43	1	535571 229297
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	73	1	536352 228826
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	121	1	536275 228529
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	161	1	536408 228593
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A16SE (NE)	213	1	536295 229080
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (SE)	236	1	536201 228262
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	1	535760 228556
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (N)	0	1	535530 228865
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16SW (NE)	120	1	536117 229132
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (W)	171	1	535362 228650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A16SE (NE)	188	1	536226 229103
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	219	1	536382 228493
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	190	1	536345 228511
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (SW)	199	1	535499 228625
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	222	1	536305 228461
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	228	1	535155 228862
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	73	1	536352 228826
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	121	1	536275 228529
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	190	1	536345 228511
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	228	1	535155 228862
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (SE)	236	1	536201 228262
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535579 228683
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	1	535465 228981
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	0	1	536222 228856
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	0	1	536023 228560
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (S)	6	1	535517 228481
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	67	1	535441 228564
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	95	1	536336 228586
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	136	1	535282 228883

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	150	1	535556 228670
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A16SE (NE)	188	1	536226 229103
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	190	1	536345 228511
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	0	1	535556 228670
	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	A11NE (NE)	0	1	535556 228670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	<p>Contemporary Trade Directory Entries</p> <p>Name: Power My Event Generator Hire Location: UNIT 19, THE FIRS, WATERMILL INDUSTRIAL ESTATE, BUNTINGFORD, SG9 9JS Classification: Generators - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	31	-	536307 228746
113	<p>Contemporary Trade Directory Entries</p> <p>Name: G Tek Plant Ltd Location: Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Meat Product Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	33	-	536297 228686
113	<p>Contemporary Trade Directory Entries</p> <p>Name: A H Austin (London) Ltd Location: Unit 5,Watermill Est, Buntingford, Hertfordshire, SG9 9JS Classification: Mould Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A12NE (E)	54	-	536318 228684
113	<p>Contemporary Trade Directory Entries</p> <p>Name: Leka Mot Station Ltd Location: Unit 4,Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A12NE (E)	58	-	536328 228716
113	<p>Contemporary Trade Directory Entries</p> <p>Name: Autofix Location: Firs Park, Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12NE (E)	74	-	536324 228640
113	<p>Contemporary Trade Directory Entries</p> <p>Name: Cybertools Ltd Location: Unit P6, Watermill Industrial Estate, BUNTINGFORD, Hertfordshire, SG9 9JS Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	79	-	536343 228685
113	<p>Contemporary Trade Directory Entries</p> <p>Name: North Herts Engineering Ltd Location: Unit 2, Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	79	-	536343 228685
113	<p>Contemporary Trade Directory Entries</p> <p>Name: Willesden Transformer Ltd Location: Unit 2, Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Transformer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	79	-	536343 228685
113	<p>Contemporary Trade Directory Entries</p> <p>Name: Print Link Location: Unit P5, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	79	-	536343 228685
114	<p>Contemporary Trade Directory Entries</p> <p>Name: Autofix Location: Unit 5, The Firs, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	62	-	536338 228792
114	<p>Contemporary Trade Directory Entries</p> <p>Name: T & C Services Ltd Location: Unit 9 The Firs,Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Commercial Vehicle Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	77	-	536353 228807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	Contemporary Trade Directory Entries Name: G P Nunn Autos Location: Unit 5b Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (E)	77	-	536353 228807
114	Contemporary Trade Directory Entries Name: Acrylic Solutions Location: Unit 1/A, The Firs, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (E)	78	-	536354 228813
114	Contemporary Trade Directory Entries Name: Autofix Location: Firs Park, Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (E)	81	-	536357 228810
114	Contemporary Trade Directory Entries Name: W G Smith & Sons Location: Unit 3 Watermill Indust Est,Aspenden Rd, Buntingford, Hertfordshire, SG9 9JS Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NE (E)	93	-	536370 228766
115	Contemporary Trade Directory Entries Name: Dun-Bri Services Ltd Location: Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (E)	91	-	536294 228596
115	Contemporary Trade Directory Entries Name: Dun-Bri Services Location: Watermill Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Car Accessories Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (E)	91	-	536294 228596
116	Contemporary Trade Directory Entries Name: Howe Green Filling Station Location: Baldock Road, Buntingford, Hertfordshire, SG9 9EG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A15NE (N)	99	-	535612 229388
116	Contemporary Trade Directory Entries Name: Howe Green Filling Station Location: Buntingford by Pass, Buntingford, SG9 9FB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A15NE (N)	101	-	535609 229389
116	Contemporary Trade Directory Entries Name: M R H Service Station Location: Baldock Road, Buntingford, Hertfordshire, SG9 9EG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A15NE (N)	101	-	535609 229389
116	Contemporary Trade Directory Entries Name: B P Service Station Location: Buntingford by Pass, Buntingford, SG9 9FB Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A15NE (N)	101	-	535609 229389
116	Contemporary Trade Directory Entries Name: How Green Garage Location: Howe Green Service Station Baldock Rd, Buntingford, Hertfordshire, SG9 9PW Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A15NE (N)	101	-	535608 229388

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	<p>Contemporary Trade Directory Entries</p> <p>Name: Howe Green Garage Location: Baldrock Road, Buntingford, Hertfordshire, SG9 9EG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A15NE (N)	102	-	535611 229391
116	<p>Contemporary Trade Directory Entries</p> <p>Name: European Cars Location: Baldock Road, Buntingford, SG9 9DL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A15NE (N)	114	-	535641 229416
116	<p>Contemporary Trade Directory Entries</p> <p>Name: European Cars Adam & Eve Service Station Location: Baldock Road, BUNTINGFORD, Hertfordshire, SG9 9DL Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A15NE (N)	114	-	535641 229415
117	<p>Contemporary Trade Directory Entries</p> <p>Name: R & G Mouldings Location: Unit 1-2, Watermill Industrial Estate, BUNTINGFORD, Hertfordshire, SG9 9JS Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (E)	119	-	536251 228560
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Diamond Enterprises Uk Ltd Location: Unit 2, The Willows, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	121	-	536374 228633
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Alpha Ironwork Location: Unit 3, The Willows, Watermill Industrial Estate, BUNTINGFORD, Hertfordshire, SG9 9JS Classification: Gate Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	123	-	536380 228643
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Jecolin Tools Ltd Location: Unit 3 The Willows, Watermill Est, Aspenden Rd, Buntingford, Hertfordshire, SG9 9JS Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12NE (E)	123	-	536380 228642
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Alpha Springs Location: Unit 3, The Firs, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Spring Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	123	-	536380 228643
119	<p>Contemporary Trade Directory Entries</p> <p>Name: Wellstone Location: 3, Railway Cottages, Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	125	-	536402 228832
120	<p>Contemporary Trade Directory Entries</p> <p>Name: D D S Location: Aspenden Rd, Buntingford, Hertfordshire, SG9 9JB Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (E)	149	-	536420 228912
120	<p>Contemporary Trade Directory Entries</p> <p>Name: D D S Engineering Location: Station House, Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	168	-	536445 228881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	<p>Contemporary Trade Directory Entries</p> <p>Name: A M E Precision Engineering (UK) Ltd Location: Station House, Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	168	-	536445 228881
120	<p>Contemporary Trade Directory Entries</p> <p>Name: M B Carpet & Upholstery Cleaning Location: 3, Railway Cottages, Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12NE (E)	186	-	536463 228886
120	<p>Contemporary Trade Directory Entries</p> <p>Name: Speedy Iron Location: 1, Station Yard, Buntingford, Hertfordshire, SG9 9FH Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	197	-	536472 228897
120	<p>Contemporary Trade Directory Entries</p> <p>Name: Buntingford Tyre & Exhaust Location: Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	205	-	536482 228891
120	<p>Contemporary Trade Directory Entries</p> <p>Name: On Site (Hertford) Ltd Location: Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Graffiti Removers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	205	-	536482 228891
121	<p>Contemporary Trade Directory Entries</p> <p>Name: Jack Poulton & Sons Ltd Location: Aspenden Road, Buntingford, Hertfordshire, SG9 9FG Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (E)	154	-	536246 228504
122	<p>Contemporary Trade Directory Entries</p> <p>Name: Smiths Of Buntingford Location: Baldock Rd, Buntingford, Hertfordshire, SG9 9DJ Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A16NW (NE)	163	-	535923 229385
122	<p>Contemporary Trade Directory Entries</p> <p>Name: Hardcastle Shutters Location: CASSIOBURY, BALDOCK ROAD, BUNTINGFORD, SG9 9DJ Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address</p>	A16NW (NE)	189	-	535950 229381
123	<p>Contemporary Trade Directory Entries</p> <p>Name: Atlantech Engineering Ltd Location: 51, Downhall Ley, Buntingford, Hertfordshire, SG9 9JT Classification: Stairlifts - Manufacturers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16SE (E)	177	-	536387 229008
123	<p>Contemporary Trade Directory Entries</p> <p>Name: Executive Carpet Care Location: 45, Downhall Ley, Buntingford, Hertfordshire, SG9 9JT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16SE (NE)	190	-	536358 229040
124	<p>Contemporary Trade Directory Entries</p> <p>Name: Pest Control Essex Location: 128, Fairfield, Buntingford, SG9 9NZ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	189	-	536466 228789
124	<p>Contemporary Trade Directory Entries</p> <p>Name: Pest Control Hertfordshire Location: 128, Fairfield, Buntingford, SG9 9NZ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	189	-	536466 228789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	<p>Contemporary Trade Directory Entries</p> <p>Name: Country Maids Ltd Location: 126, Fairfield, Buntingford, Hertfordshire, SG9 9NY Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (E)	214	-	536490 228807
125	<p>Contemporary Trade Directory Entries</p> <p>Name: Jack Poulton & Sons Ltd Location: Aspenden, Buntingford, Hertfordshire, SG9 9PB Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SE)	241	-	536174 228285
125	<p>Contemporary Trade Directory Entries</p> <p>Name: Jack Poulton & Sons Ltd Location: Home Farm, Aspenden, Buntingford, Hertfordshire, SG9 9PB Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SE)	241	-	536174 228285
126	<p>Contemporary Trade Directory Entries</p> <p>Name: S J S Plumbing & Heating Ltd Location: 12 Jubilee Cottages, Aspenden, Buntingford, Hertfordshire, SG9 9PE Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12SW (SE)	256	-	535983 228265
127	<p>Contemporary Trade Directory Entries</p> <p>Name: Urbaser Location: Unit 1, Buntingford Business Park, Baldock Road, Buntingford, SG9 9ER Classification: Recycling Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A15NW (N)	286	-	535418 229504
128	<p>Contemporary Trade Directory Entries</p> <p>Name: Graham Tibbals Location: 9, Snells Mead, Buntingford, Hertfordshire, SG9 9JF Classification: Furniture - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16SE (NE)	298	-	536461 229103
129	<p>Contemporary Trade Directory Entries</p> <p>Name: Sam Autos Location: 3 Bellbarns, Baldock Rd, Buntingford, Hertfordshire, SG9 9AA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A16NW (NE)	299	-	536064 229378
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Buntingford Auto Service Location: 241, Monks Walk, Buntingford, Hertfordshire, SG9 9DZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16NW (NE)	362	-	536135 229348
131	<p>Contemporary Trade Directory Entries</p> <p>Name: J & M Fire Location: 199, Monks Walk, Buntingford, Hertfordshire, SG9 9DX Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16SE (NE)	378	-	536192 229240
132	<p>Contemporary Trade Directory Entries</p> <p>Name: James Pigg Location: Trove House, Baldock Road, Buntingford, Hertfordshire, SG9 9AA Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A16NE (NE)	445	-	536200 229440
133	<p>Contemporary Trade Directory Entries</p> <p>Name: Ewepack Location: The Manor House, High Street, Buntingford, SG9 9AB Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	475	-	536245 229375
133	<p>Contemporary Trade Directory Entries</p> <p>Name: Buntingford Joinery Ltd Location: 6, High Street, Buntingford, Hertfordshire, SG9 9AG Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	524	-	536290 229395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Contemporary Trade Directory Entries Name: Buntingford Dry Cleaners & Laundries Location: 10, High Street, Buntingford, Hertfordshire, SG9 9AG Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	532	-	536293 229421
134	Contemporary Trade Directory Entries Name: Swift Drycleaners Location: 38, High Street, Buntingford, Hertfordshire, SG9 9AQ Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	509	-	536225 229560
135	Contemporary Trade Directory Entries Name: Classic Cars Location: How Green Farm, Baldock Road, Buntingford, SG9 9RH Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NW)	849	-	534537 229439
136	Fuel Station Entries Name: Mfg Howe Green Location: Baldock Road , , Buntingford, Hertfordshire, SG9 9EG Brand: BP Premises Type: Petrol Station Status: Under Development Positional Accuracy: Manually positioned to the address or location	A15NE (N)	101	-	535611 229390
137	Fuel Station Entries Name: Adam And Eve Service Station Location: Station Road Rib Way, , Buntingford, Hertfordshire, SG9 9H Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A16SE (NE)	374	-	536374 229230
138	Points of Interest - Commercial Services Name: Autofix Location: Unit 5 The Firs, Watermill Industrial Estate, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (E)	61	7	536338 228787
138	Points of Interest - Commercial Services Name: G P Nunn Autos Location: Unit 5b, Watermill Industrial Estate, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (E)	77	7	536353 228806
138	Points of Interest - Commercial Services Name: W G Smith & Sons Location: Unit 3 Watermill Indust Est, Aspenden Rd, Buntingford, Hertfordshire, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (E)	93	7	536370 228766
139	Points of Interest - Commercial Services Name: G P Nunn Location: Unit 1b, Watermill Industrial Estate, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (E)	82	7	536345 228667
139	Points of Interest - Commercial Services Name: W G Smith & Sons Location: Unit 3 The Willows, Watermill Industrial Estate, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (E)	123	7	536380 228643
140	Points of Interest - Commercial Services Name: Mfg Howe Green Location: Baldock Road, Buntingford, SG9 9EW Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535611 229390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Points of Interest - Commercial Services Name: Car Wash Location: Baldock Road, Buntingford, Hertfordshire, SG9 9EW Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535611 229390
140	Points of Interest - Commercial Services Name: European Cars Location: Baldock Road, Buntingford, SG9 9DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NE (N)	102	7	535611 229391
140	Points of Interest - Commercial Services Name: B P Car Wash Location: Baldock Road, Buntingford, SG9 9EG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A15NE (N)	113	7	535620 229407
140	Points of Interest - Commercial Services Name: European Cars Location: Baldock Road, Buntingford, SG9 9DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NE (N)	114	7	535640 229415
141	Points of Interest - Commercial Services Name: Pest Control Hertfordshire Location: 128 Fairfield, Buntingford, SG9 9NZ Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12NE (E)	189	7	536466 228789
142	Points of Interest - Commercial Services Name: J C Poulton Location: Aspenden, Buntingford, SG9 9PB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SE)	241	7	536174 228285
142	Points of Interest - Commercial Services Name: Jack Poulton & Sons Ltd Location: Home Farm, Aspenden, Buntingford, SG9 9PB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SE)	241	7	536174 228285
142	Points of Interest - Commercial Services Name: J C Poulton Location: Home Farm, Aspenden, Buntingford, SG9 9PB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SE)	241	7	536174 228285
143	Points of Interest - Commercial Services Name: Urbaser Location: Unit 1 Buntingford Business Park, Baldock Road, Buntingford, SG9 9ER Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A15NW (N)	285	7	535415 229502
144	Points of Interest - Commercial Services Name: Buntingford Auto Service Location: 241 Monks Walk, Buntingford, SG9 9DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16NW (NE)	362	7	536135 229348
145	Points of Interest - Commercial Services Name: Ewepack Location: Buntingford, SG9 9AB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A16NE (NE)	474	7	536244 229375
146	Points of Interest - Commercial Services Name: Classic Cars Location: How Green Farm, Baldock Road, Buntingford, SG9 9RH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NW)	850	7	534536 229439

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	28	7	536291 228675
147	Points of Interest - Manufacturing and Production Name: Factory Location: SG9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12NE (E)	35	7	536298 228674
147	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: SG9 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	49	7	536320 228723
147	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: SG9 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	60	7	536328 228709
147	Points of Interest - Manufacturing and Production Name: Works Location: SG9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	69	7	536334 228690
147	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	73	7	536338 228689
148	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	177	7	536455 228868
149	Points of Interest - Manufacturing and Production Name: Buntingford Business Park Location: SG9 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	350	7	535359 229559
150	Points of Interest - Manufacturing and Production Name: Workings (Dis) Location: SG9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A8SE (SE)	766	7	536302 227773
151	Points of Interest - Public Infrastructure Name: Sewage Works Location: SG9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (E)	49	7	536136 228561
151	Points of Interest - Public Infrastructure Name: Sewage Works Location: SG9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12NE (E)	63	7	536178 228612
152	Points of Interest - Public Infrastructure Name: BP Service Station Howe Green Filling Station Location: Baldock Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	99	7	535611 229388

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	Points of Interest - Public Infrastructure Name: Howe Green Filling Station Location: Baldock, Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535611 229390
152	Points of Interest - Public Infrastructure Name: M R H Service Station Location: Baldock Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535609 229389
152	Points of Interest - Public Infrastructure Name: BP Service Station Location: Howe Green Service Station, Baldock Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535609 229389
152	Points of Interest - Public Infrastructure Name: Howe Green Filling Station Location: Howe Green Service Station Baldock Rd, Buntingford, Hertfordshire, SG9 9PW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535608 229388
152	Points of Interest - Public Infrastructure Name: Howe Green Filling Station Location: Baldock Road, Buntingford, Hertfordshire, SG9 9EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	101	7	535611 229390
152	Points of Interest - Public Infrastructure Name: Howe Green Garage Location: Baldock Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	102	7	535611 229391
152	Points of Interest - Public Infrastructure Name: Adam & Eve Service Station Location: Baldock Road, Buntingford, SG9 9DL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A15NE (N)	102	7	535611 229391
153	Points of Interest - Public Infrastructure Name: Herfordshire Constabulary Location: Police Station, Baldock Road, Buntingford, SG9 9DB Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A16NW (NE)	247	7	536011 229377
153	Points of Interest - Public Infrastructure Name: Buntingford Police Station Location: Police Station, Baldock Road, Buntingford, SG9 9DB Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A16NW (NE)	247	7	536011 229377
153	Points of Interest - Public Infrastructure Name: Buntingford Police Station Location: Police Station, Baldock Road, Buntingford, SG9 9DB Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A16NW (NE)	250	7	536014 229376
154	Points of Interest - Public Infrastructure Name: Enterprise Plc Location: Unit 1 Buntingford Business Park, Baldock Road, Buntingford, SG9 9ER Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A15NW (N)	285	7	535415 229503
155	Points of Interest - Public Infrastructure Name: Buntingford Fire Station Location: Station Road, Buntingford, SG9 9HZ Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A16SE (NE)	355	7	536407 229199



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Points of Interest - Public Infrastructure Name: Wastecall Location: 14 High Street, Buntingford, SG9 9AG Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A16NE (NE)	509	7	536266 229434
157	Points of Interest - Recreational and Environmental Name: Play Area Location: SG9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A16SE (NE)	199	7	536178 229056
158	Points of Interest - Recreational and Environmental Name: Play Area Location: SG9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	348	7	536302 228237



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	Nitrate Vulnerable Zones Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A11NE (NE)	0	4	535556 228670
160	Nitrate Vulnerable Zones Name: Buntingford Chalk Description: Groundwater Source: Environment Agency, Head Office	A11NE (NE)	0	4	535556 228670

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices East Hertfordshire District Council - Environmental Health Department Environment Agency - Head Office	January 2013 June 2020	Annual Rolling Update Annually
Discharge Consents Environment Agency - Thames Region	April 2022	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	
Integrated Pollution Controls Environment Agency - Thames Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	January 2022 January 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Local Authority Pollution Prevention and Controls East Hertfordshire District Council - Environmental Health Department	January 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Nearest Surface Water Feature Ordnance Survey	February 2022	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2022 January 2022	Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	April 2022	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	May 2021	Bi-Annually

Agency & Hydrological	Version	Update Cycle
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2022	Quarterly
Flood Defences Environment Agency - Head Office	February 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	January 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2022 January 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2022 January 2022	Quarterly Quarterly
Local Authority Landfill Coverage East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit	February 2003 February 2003	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit	October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Thames Region - North East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - North East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - North East Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements East Hertfordshire District Council Hertfordshire County Council - Spatial Planning and Economy Unit	April 2015 February 2016	Variable Variable
Planning Hazardous Substance Consents East Hertfordshire District Council Hertfordshire County Council - Spatial Planning and Economy Unit	April 2015 February 2016	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually



Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	March 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2022	Quarterly
Points of Interest - Education and Health PointX	March 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2022	Quarterly
Points of Interest - Public Infrastructure PointX	March 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt East Hertfordshire District Council	October 2020	Quarterly
Areas of Unadopted Green Belt East Hertfordshire District Council	October 2020	Quarterly
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	East Hertfordshire District Council - Environmental Health Department Wallfields, Pegs Lane, Hertford, Hertfordshire, SG13 8EQ	Telephone: 01992 531491 Website: www.eastherts.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Hertfordshire County Council - Spatial Planning and Economy Unit County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556015 Email: spatialplanning@hertfordshire.gov.uk Website: www.hertsdirect.org
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian
	GLLMP	Glaciolacustrine Deposits, Mid Pleistocene	Clay and Silt	Not Supplied - Cromerian
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian



Geology 1:50,000 Maps

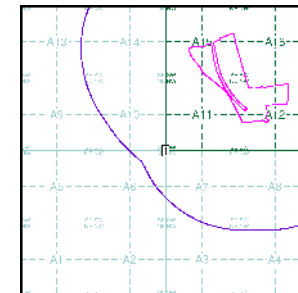
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	221
Map Name:	Hitchin
Map Date:	1995
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

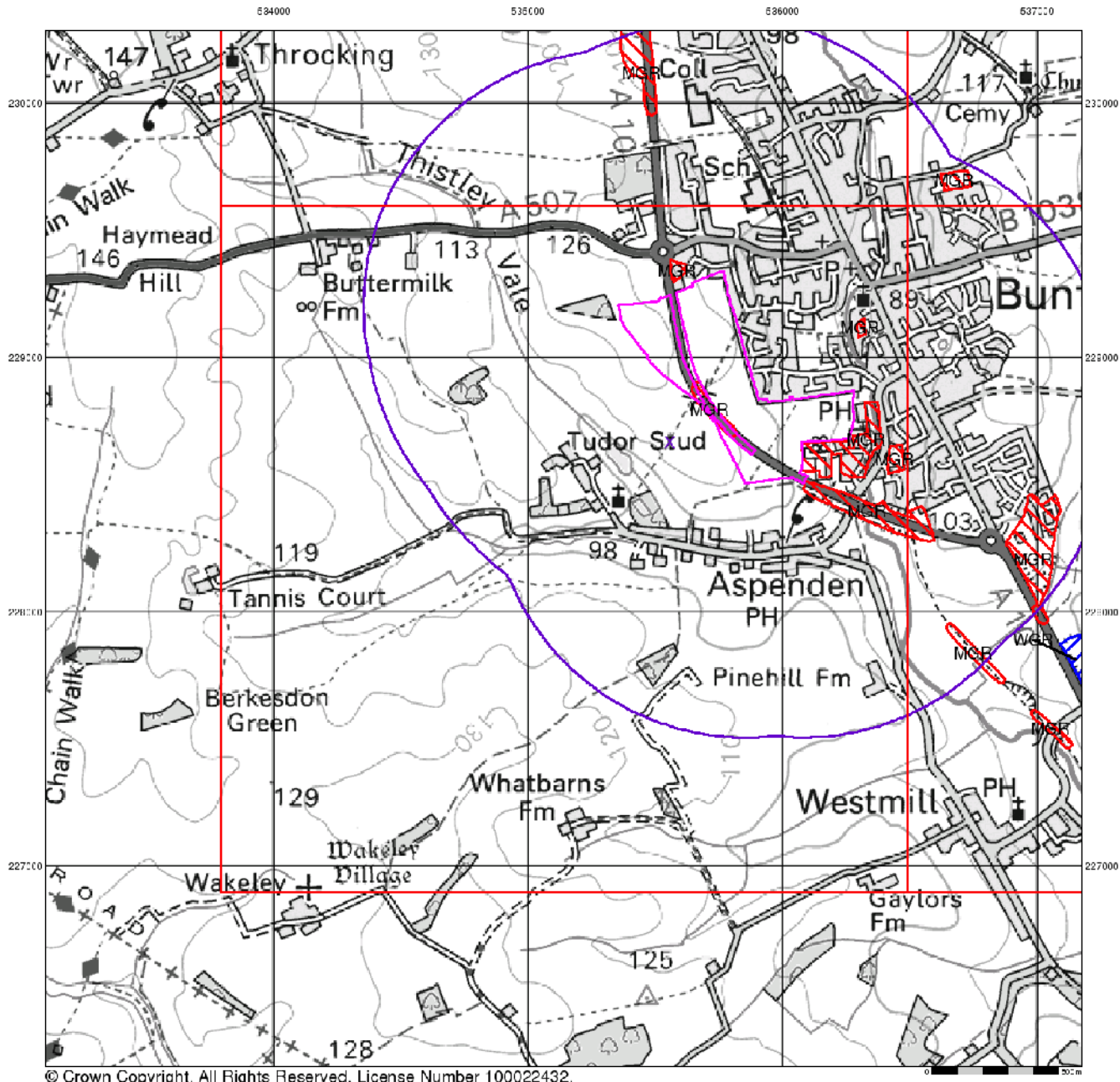


Order Details:

Order Number:	296189182_1_1
Customer Reference:	70088938-L01
National Grid Reference:	535560, 228670
Slice:	A
Site Area (Ha):	28.24
Search Buffer (m):	1000

Site Details:

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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Artificial Ground and Landslip

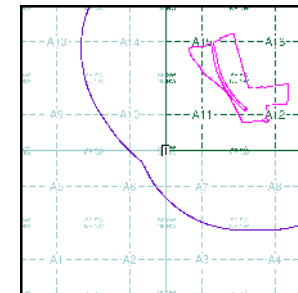
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

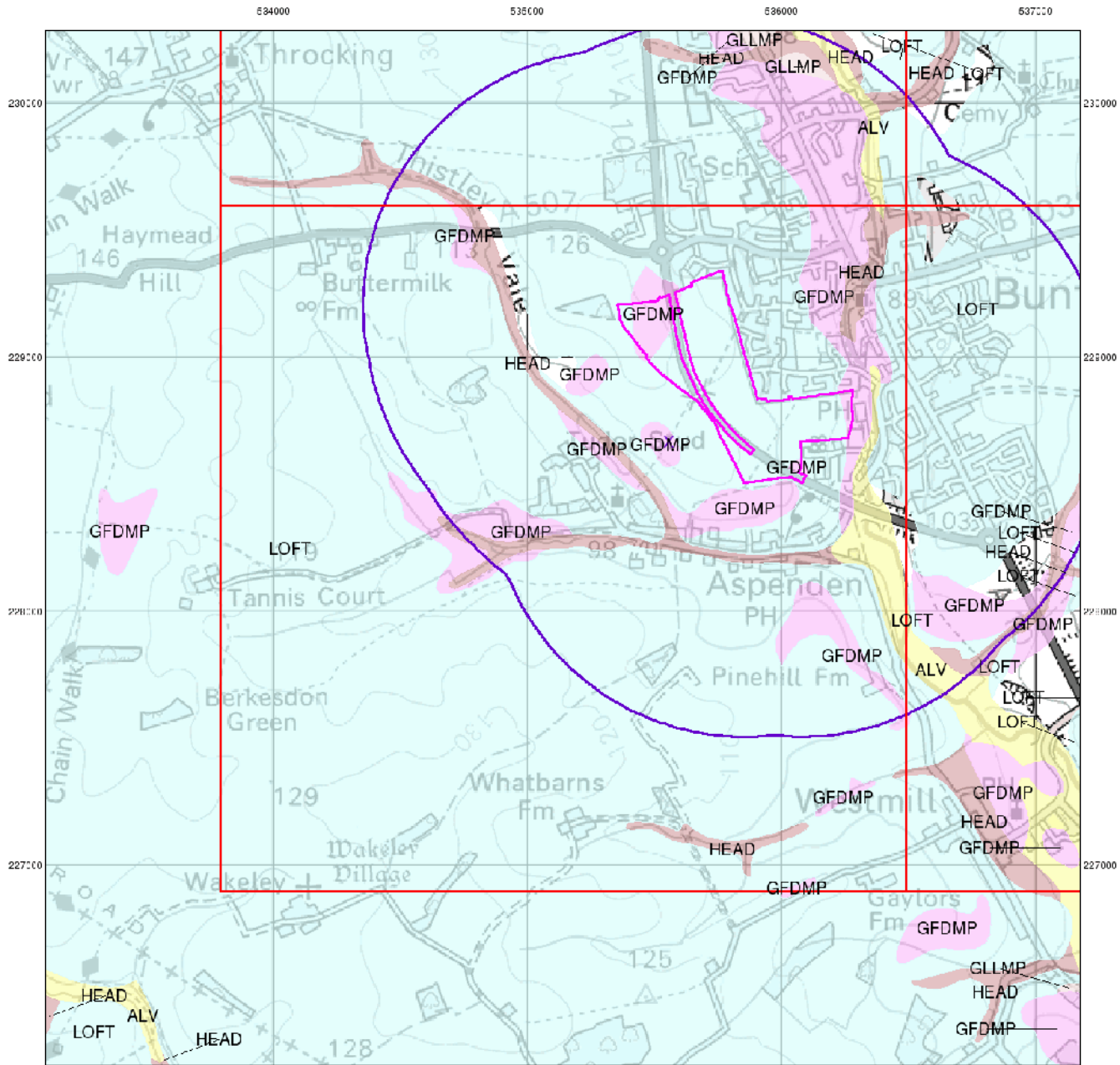
Order Number: 296189182_1.1
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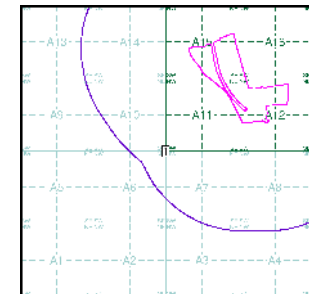
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

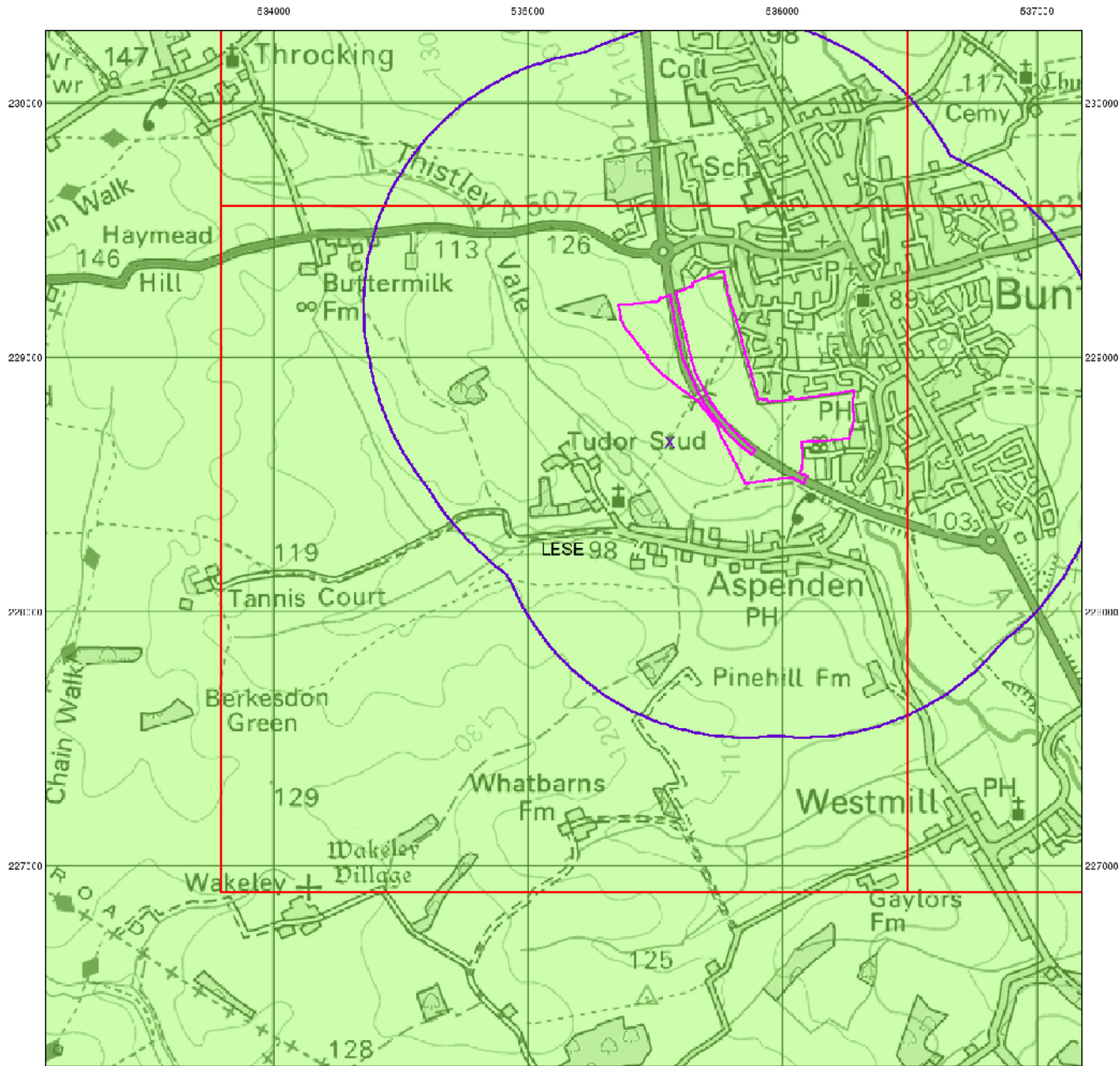
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Bedrock and Faults

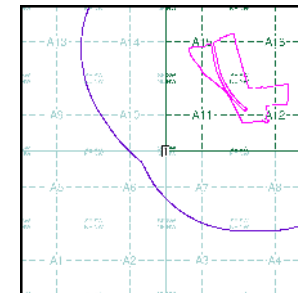
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

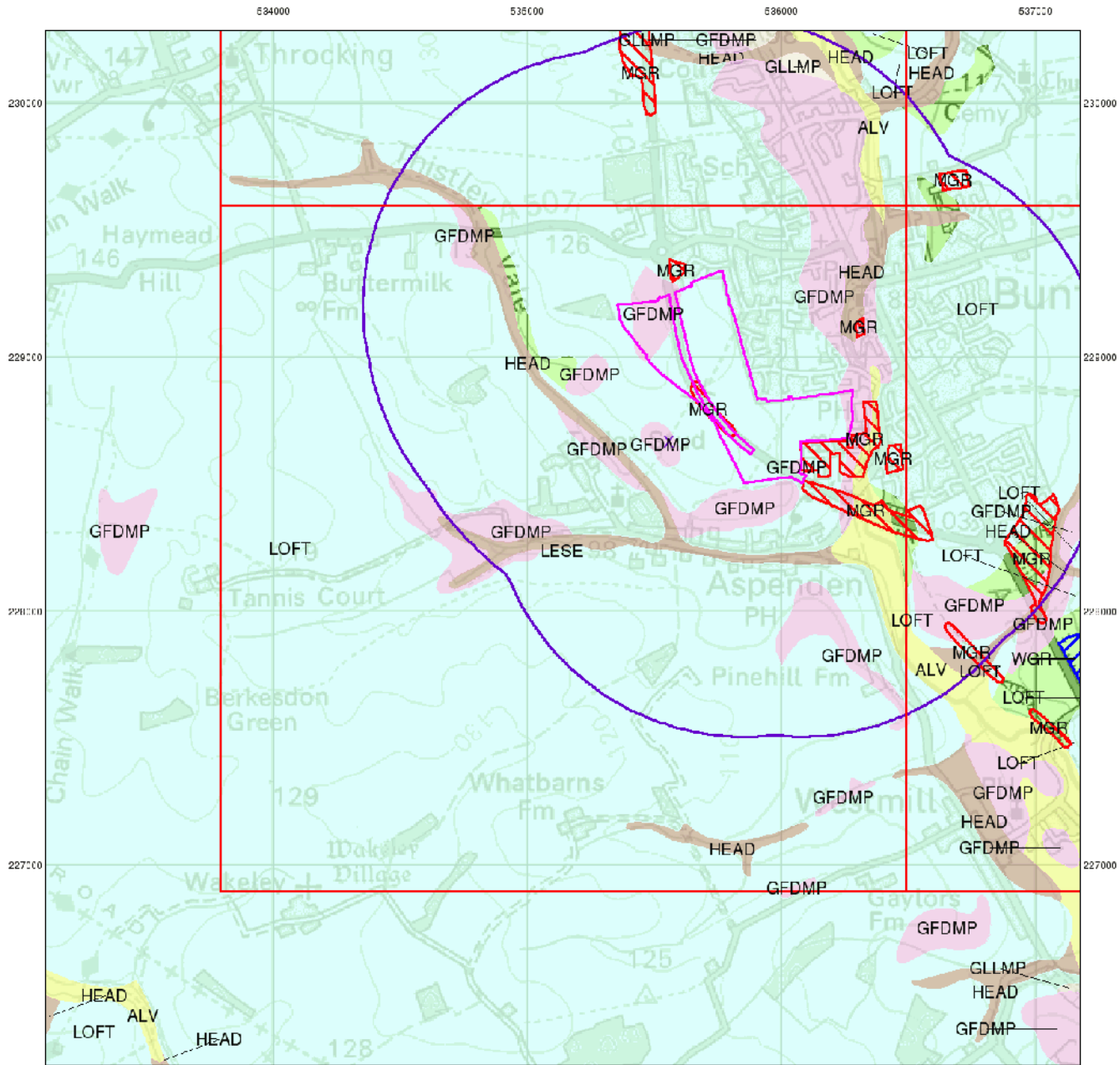
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

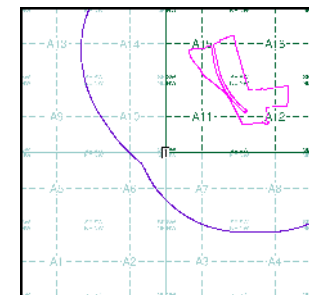
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

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 Kingsley Dunham Centre
 Keyworth
 Nottingham
 NG12 5GG
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 Fax: 0115 936 3276
 email: enquiries@bgs.ac.uk
 website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 296189182_1.1
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 National Grid Reference: 535560, 228670
 Slice: A
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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 Burgh 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
	Coppice		Bracken
	Heath		Rough Grassland
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	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, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

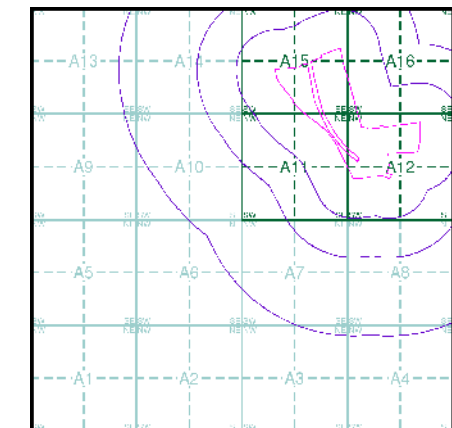
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
	MHW(S) Mean high water (springs)		MLW(S) 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
Hertfordshire	1:10,560	1883 - 1884	2
Hertfordshire	1:10,560	1899	3
Hertfordshire	1:10,560	1923 - 1925	4
Hertfordshire	1:10,560	1947 - 1950	5
Ordnance Survey Plan	1:10,000	1960	6
Ordnance Survey Plan	1:10,000	1978	7
Ordnance Survey Plan	1:10,000	1980	8
Ordnance Survey Plan	1:10,000	1993	9
10K Raster Mapping	1:10,000	1999	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2021	12

Historical Map - Slice A



Order Details

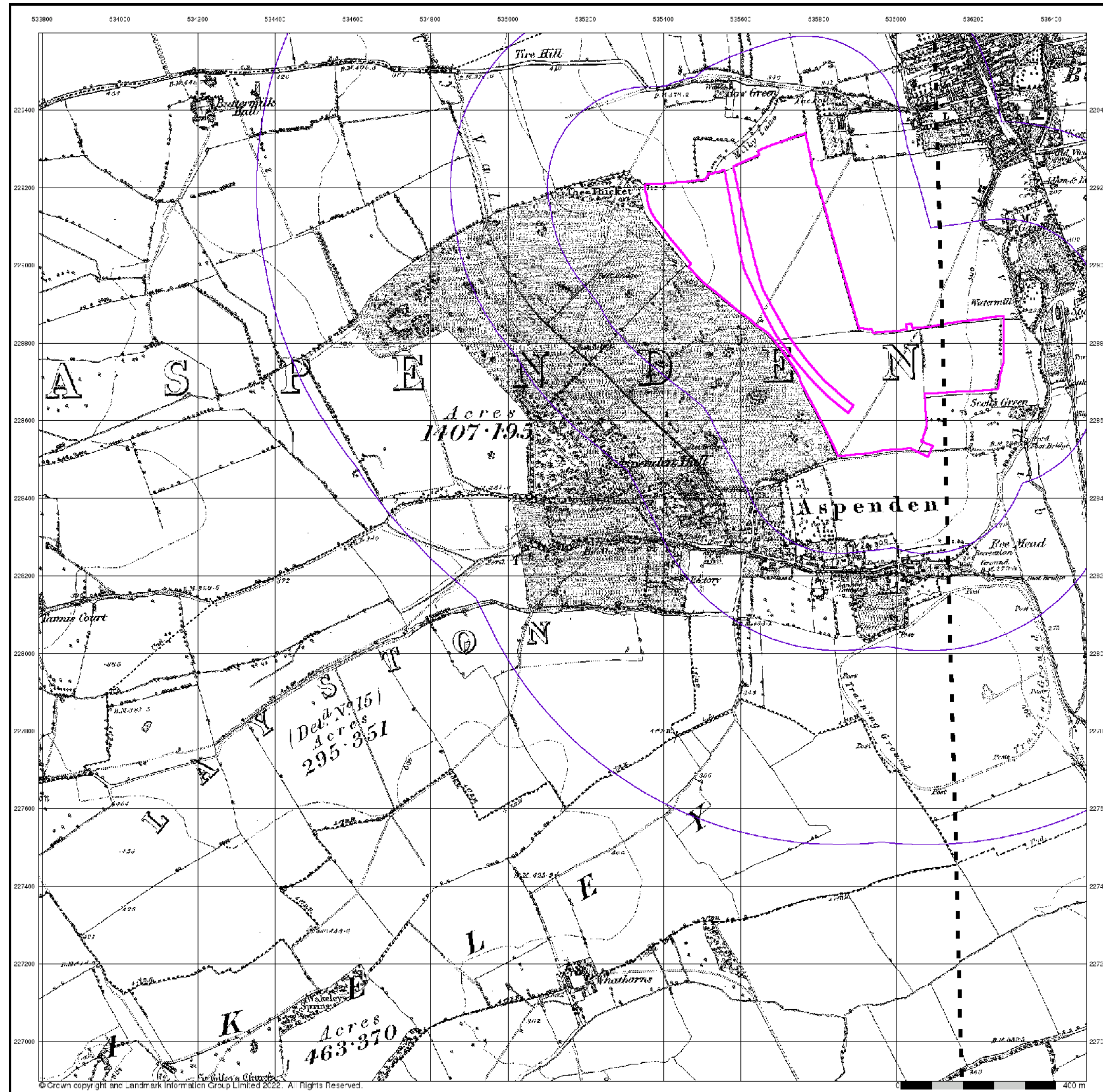
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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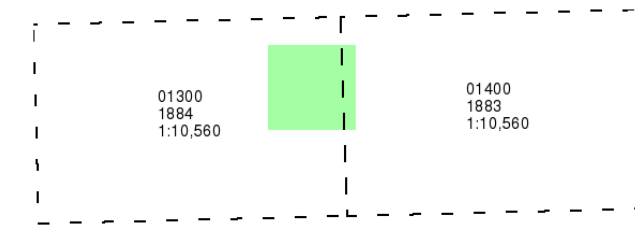
Hertfordshire

Published 1883 - 1884

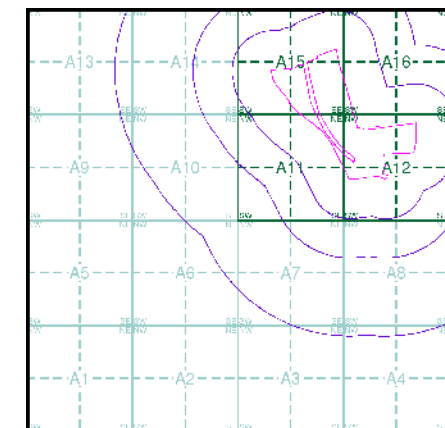
Source map scale - 1:10,560

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

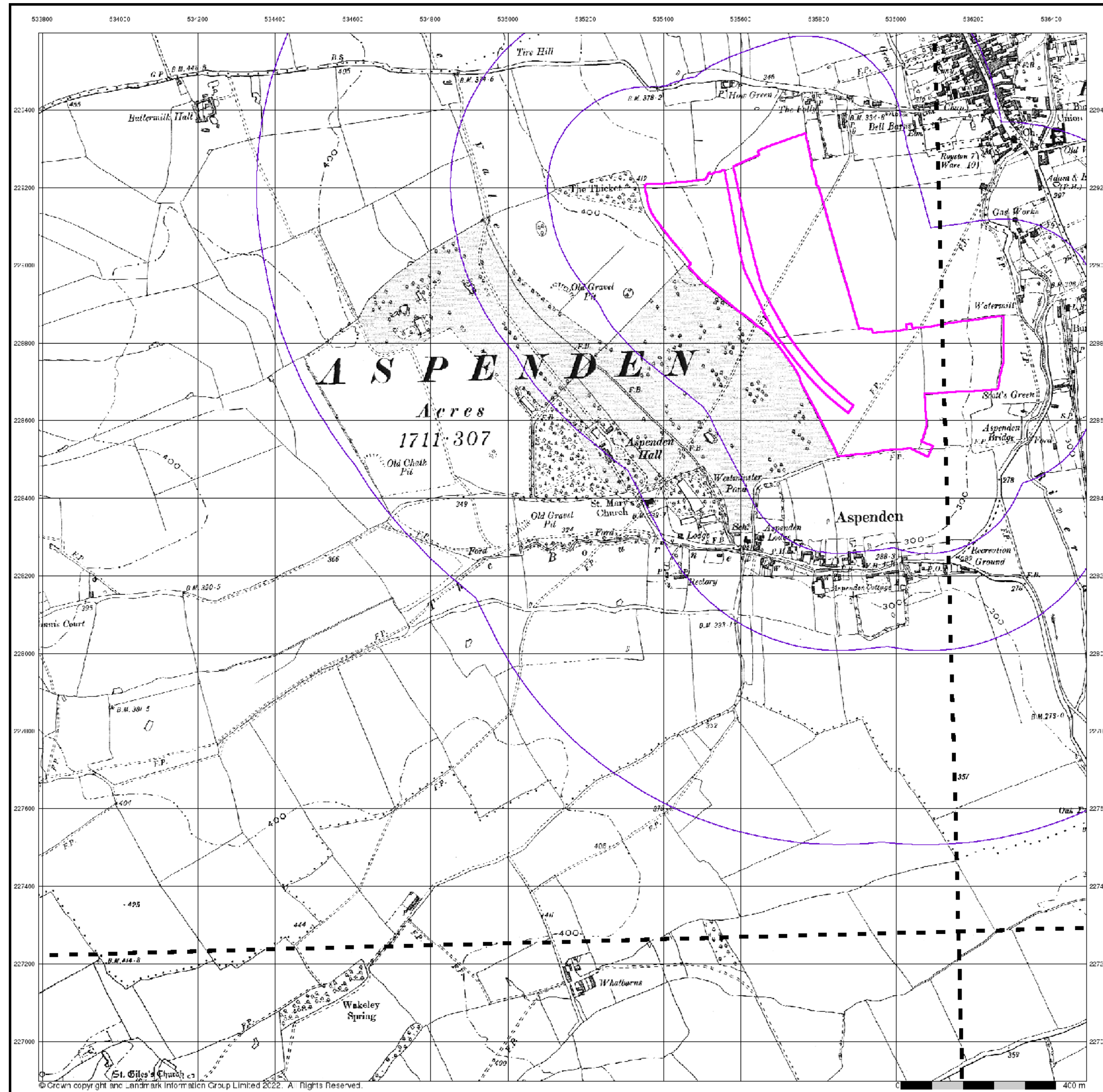
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Hertfordshire

Published 1899

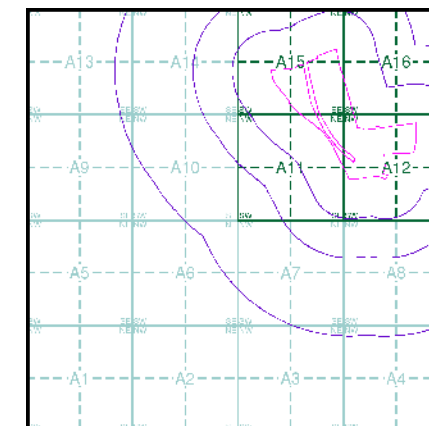
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Map Name(s) and Date(s)

013NE 1899 1:10,560	014NW 1899 1:10,560
013SE 1899 1:10,560	014SW 1899 1:10,560

Historical Map - Slice A



Order Details

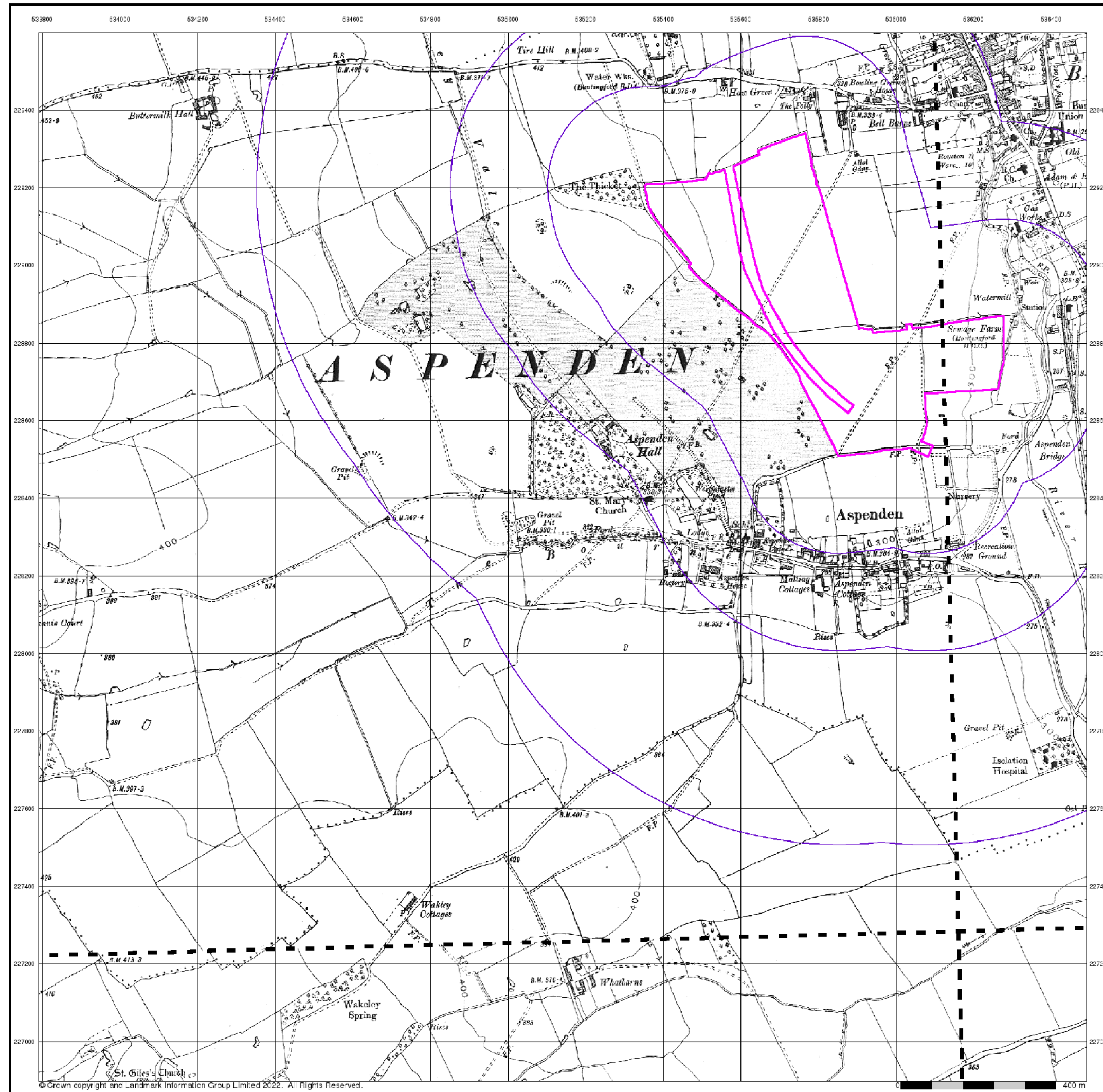
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Hertfordshire

Published 1923 - 1925

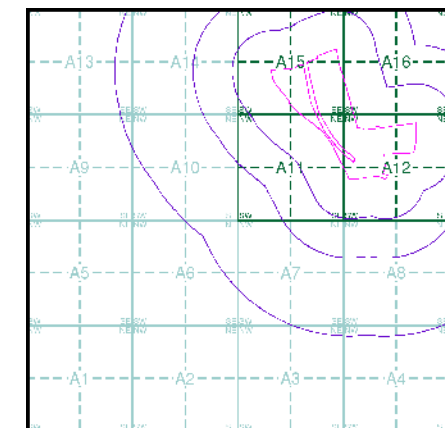
Source map scale - 1:10,560

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)

013NE 1925 1:10,560	014NW 1923 1:10,560
013SE 1924 1:10,560	014SW 1923 1:10,560

Historical Map - Slice A



Order Details

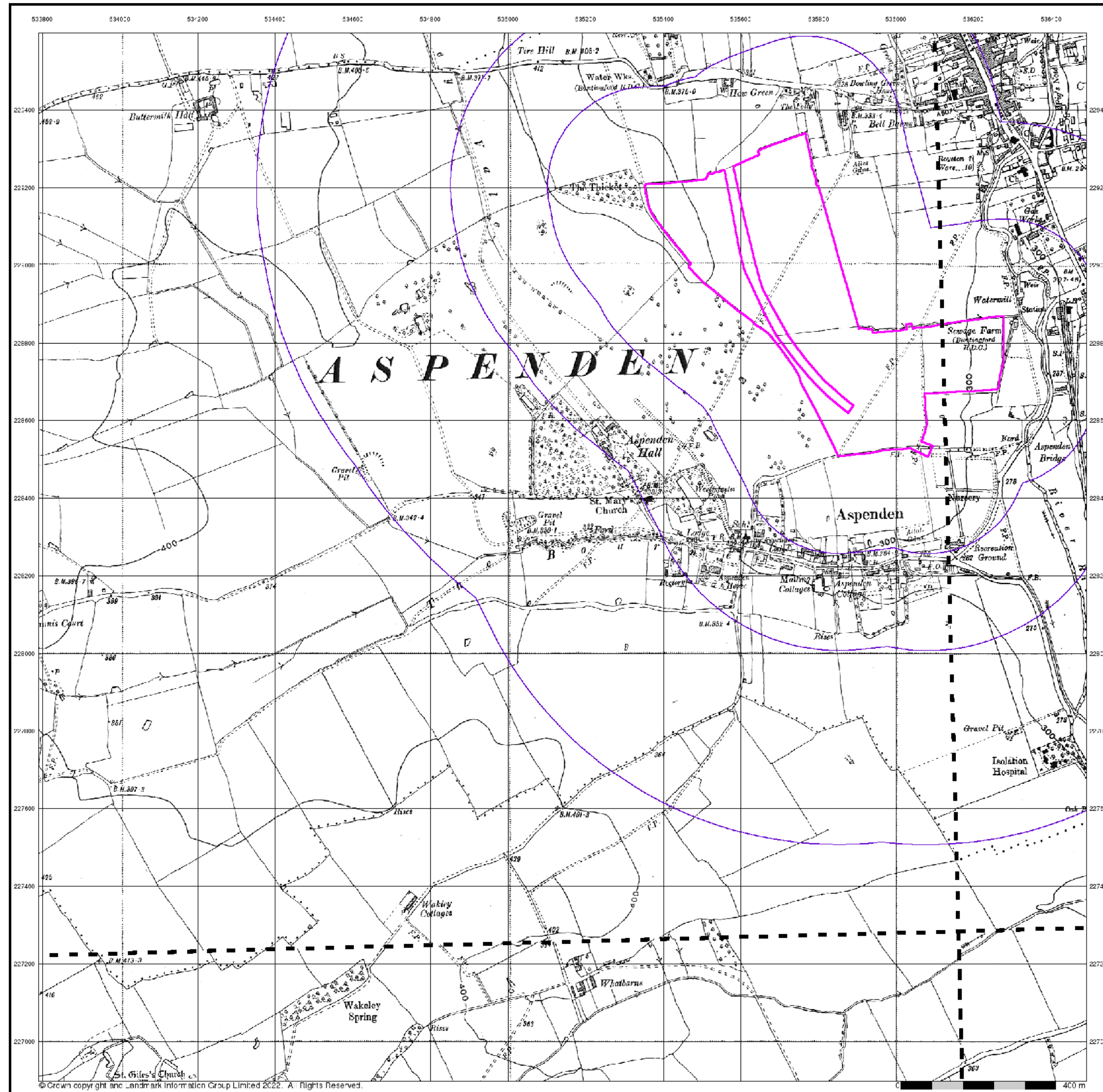
Order Number: 296189182_1_1
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Hertfordshire

Published 1947 - 1950

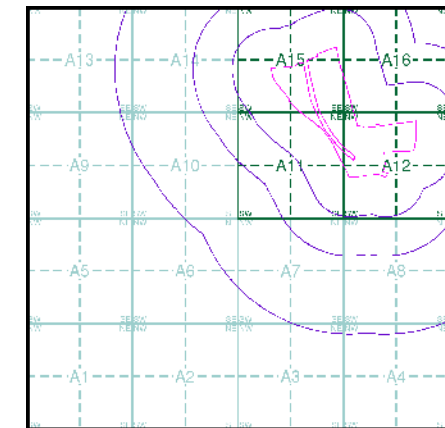
Source map scale - 1:10,560

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)

013NE 1948 1:10,560	014NW 1950 1:10,560
013SE 1947 1:10,560	014SW 1950 1:10,560

Historical Map - Slice A



Order Details

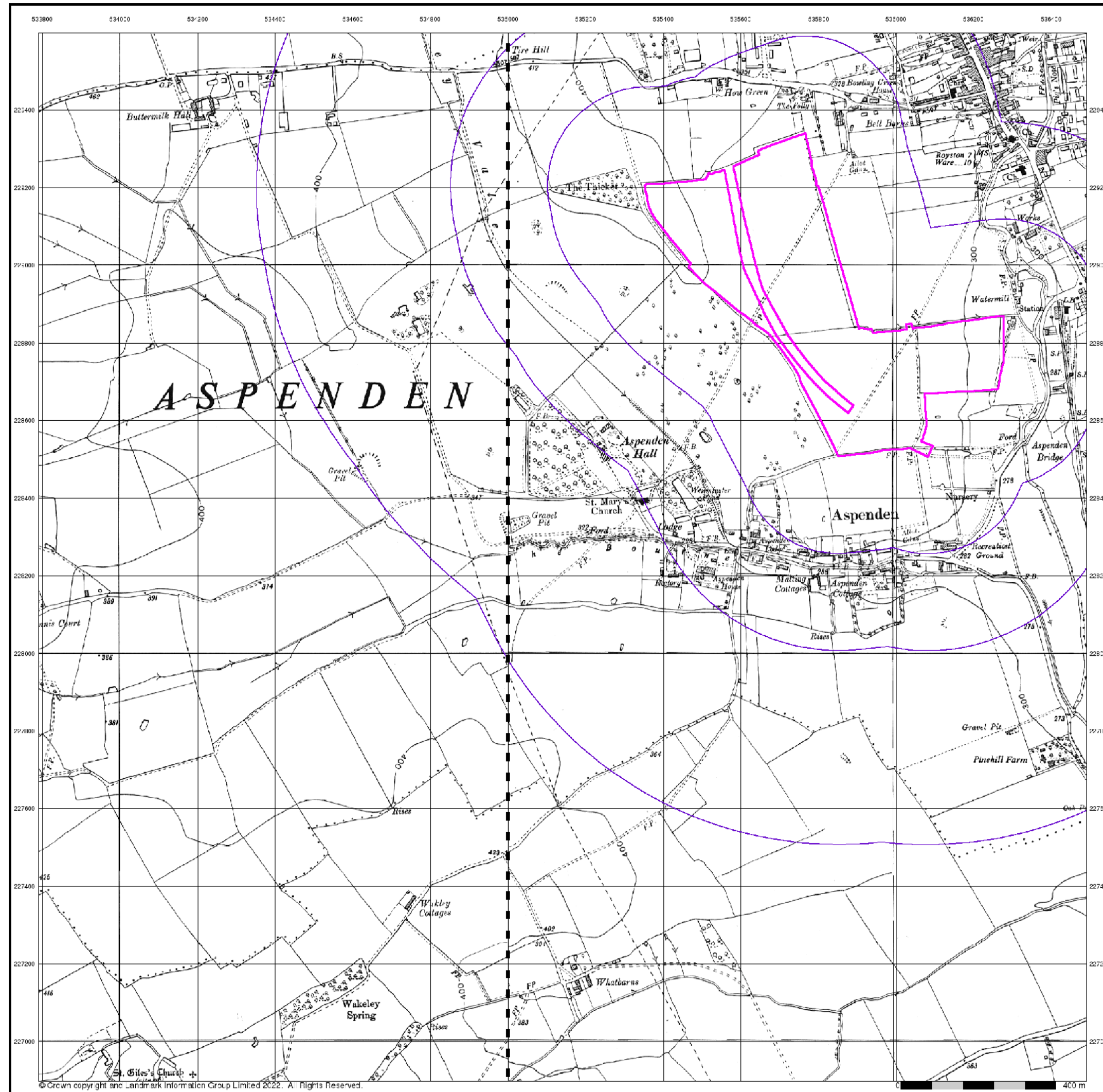
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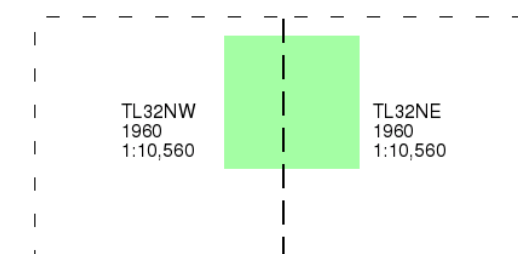
Ordnance Survey Plan

Published 1960

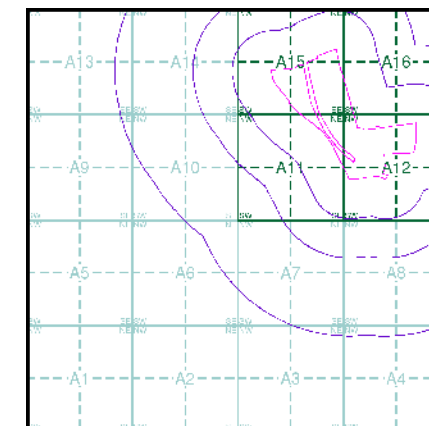
Source map scale - 1:10,000

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

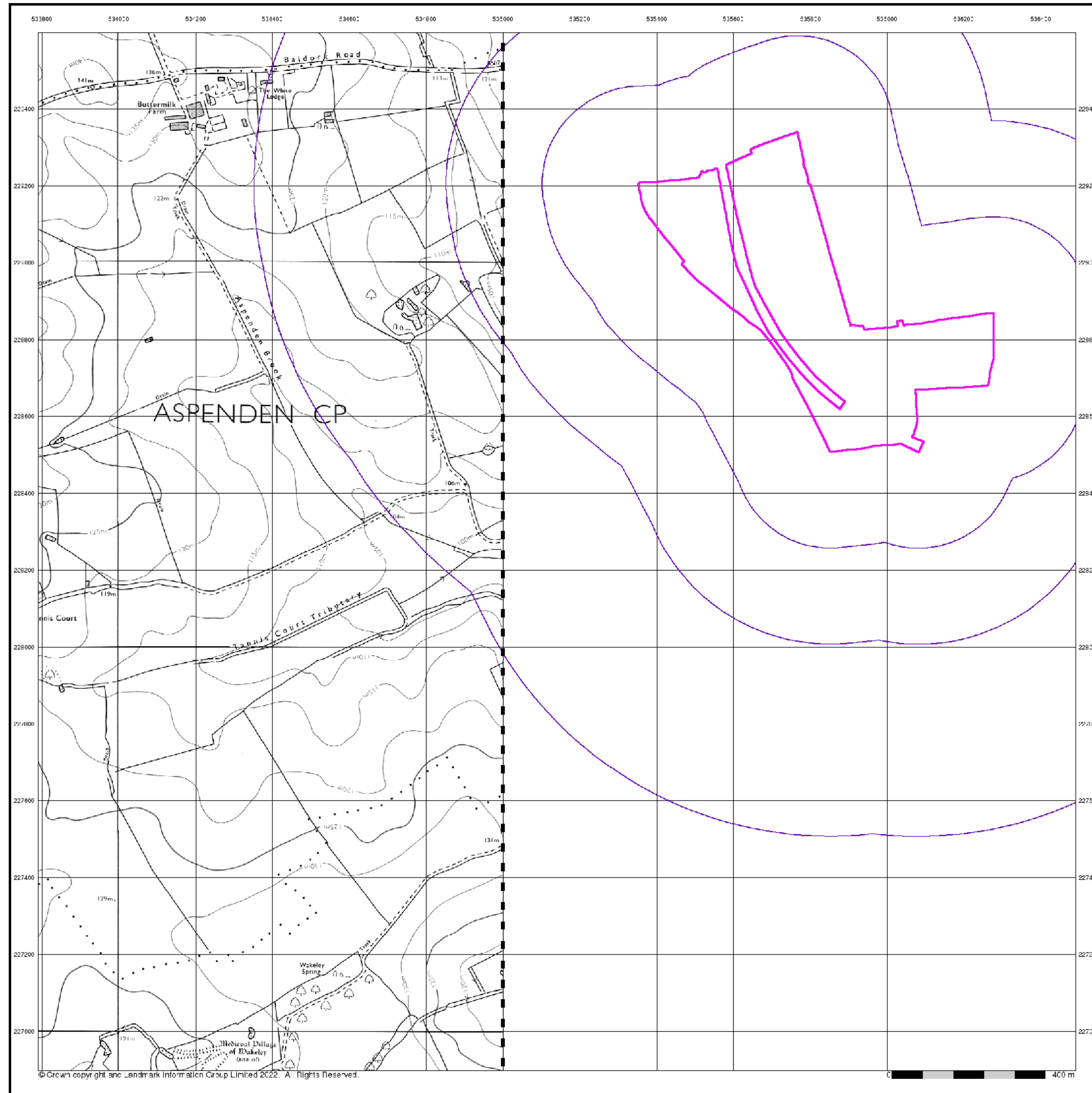
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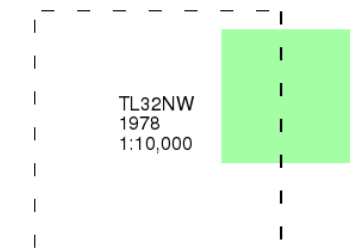
Ordnance Survey Plan

Published 1978

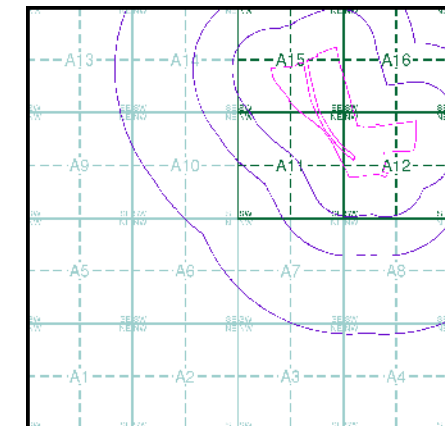
Source map scale - 1:10,000

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

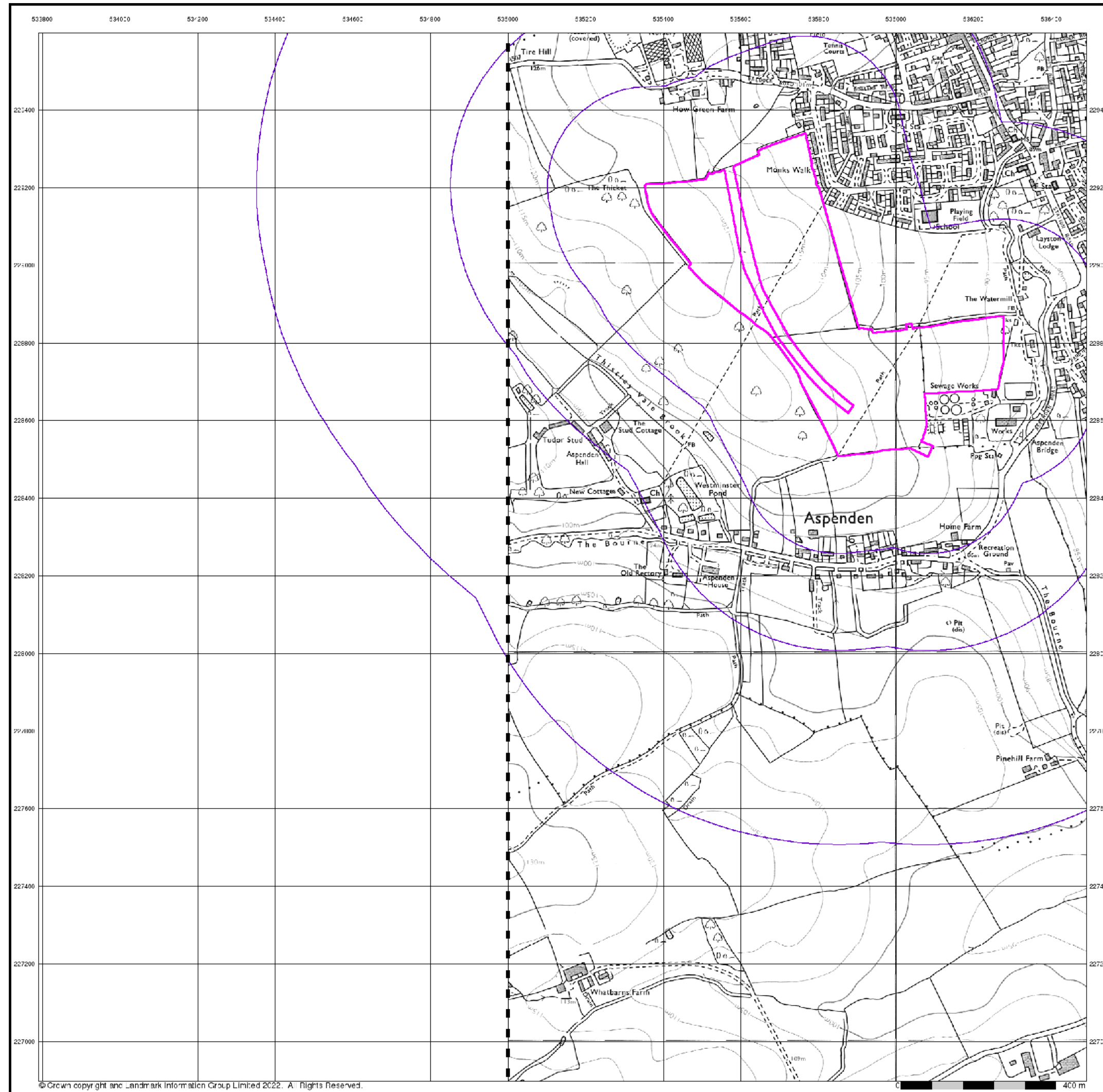
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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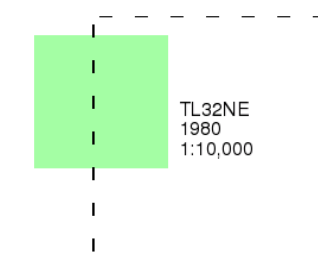
Ordnance Survey Plan

Published 1980

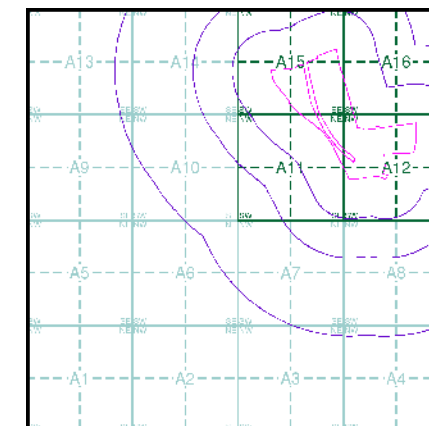
Source map scale - 1:10,000

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

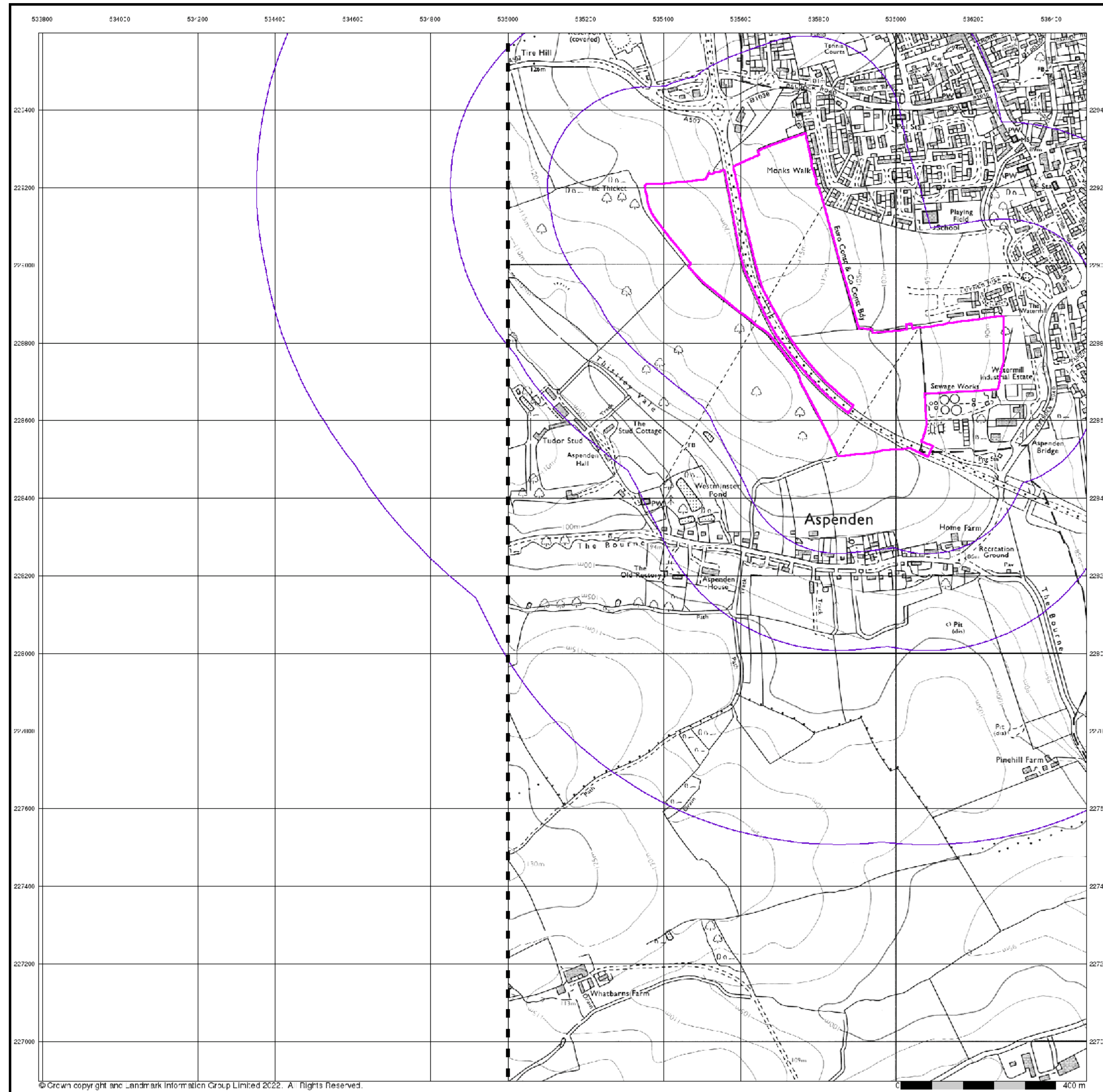
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
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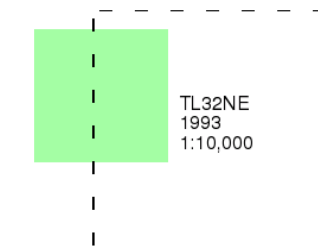
Ordnance Survey Plan

Published 1993

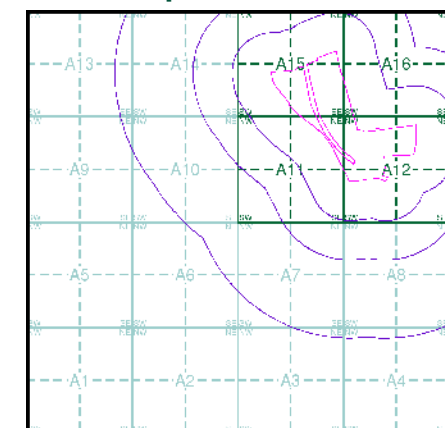
Source map scale - 1:10,000

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

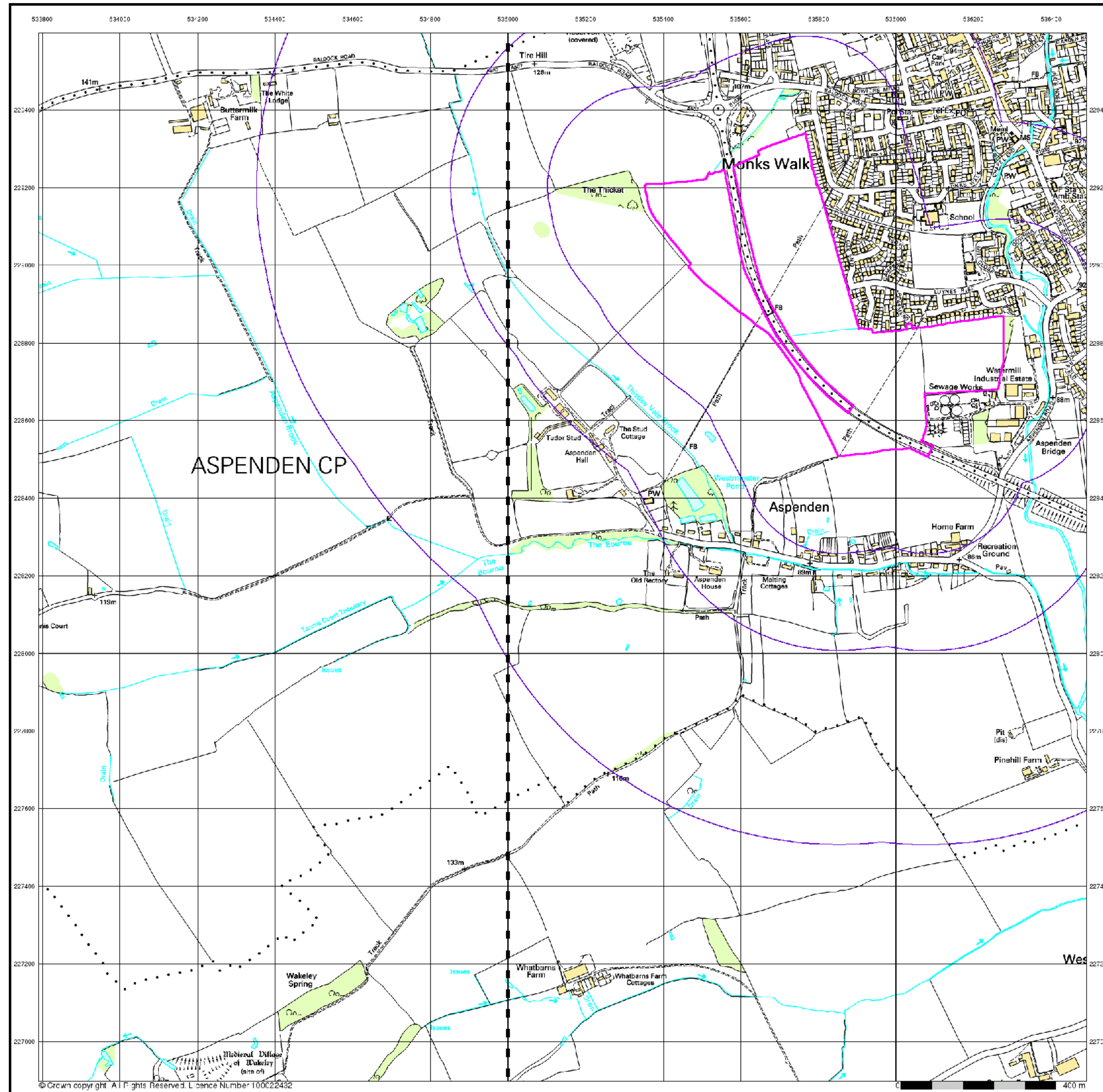
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
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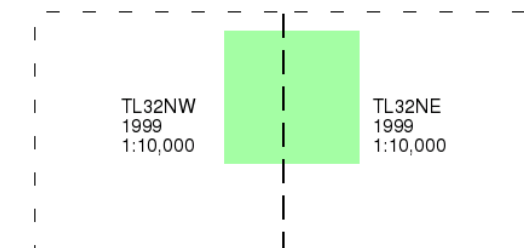
10k Raster Mapping

Published 1999

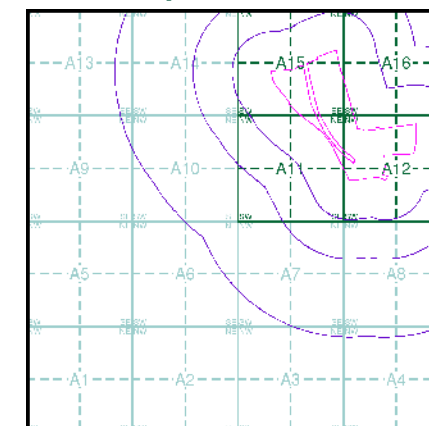
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

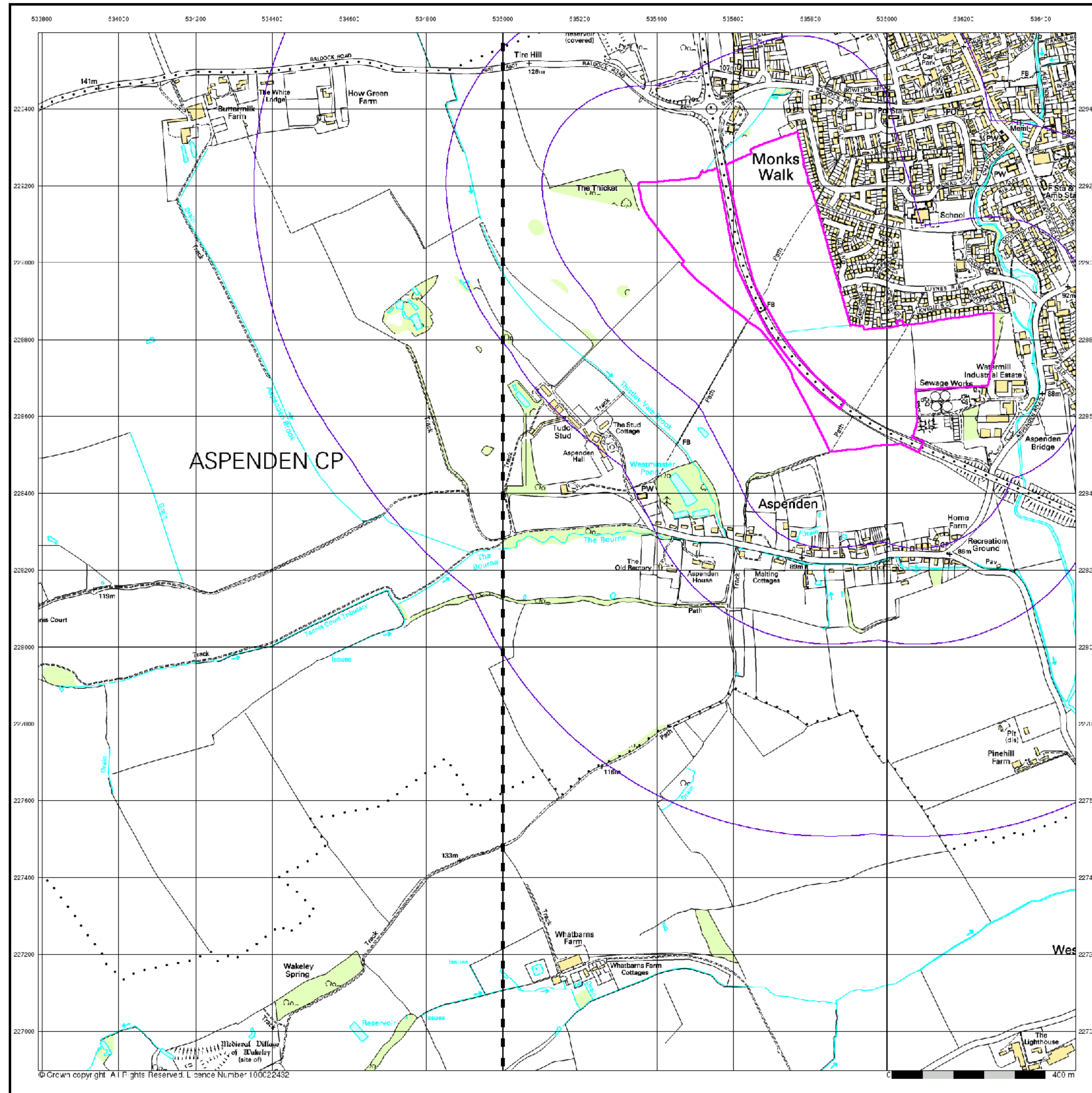
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
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 Site Area (Ha): 28.24
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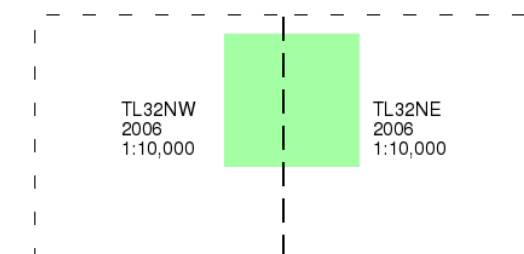
10k Raster Mapping

Published 2006

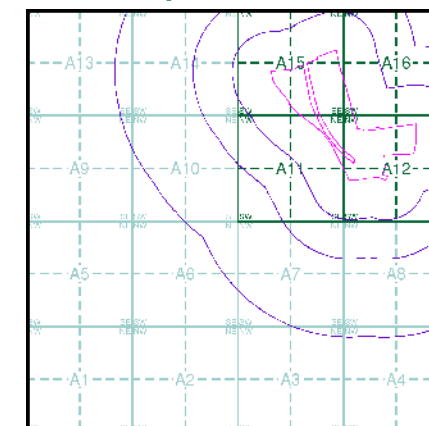
Source map scale - 1:10,000

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

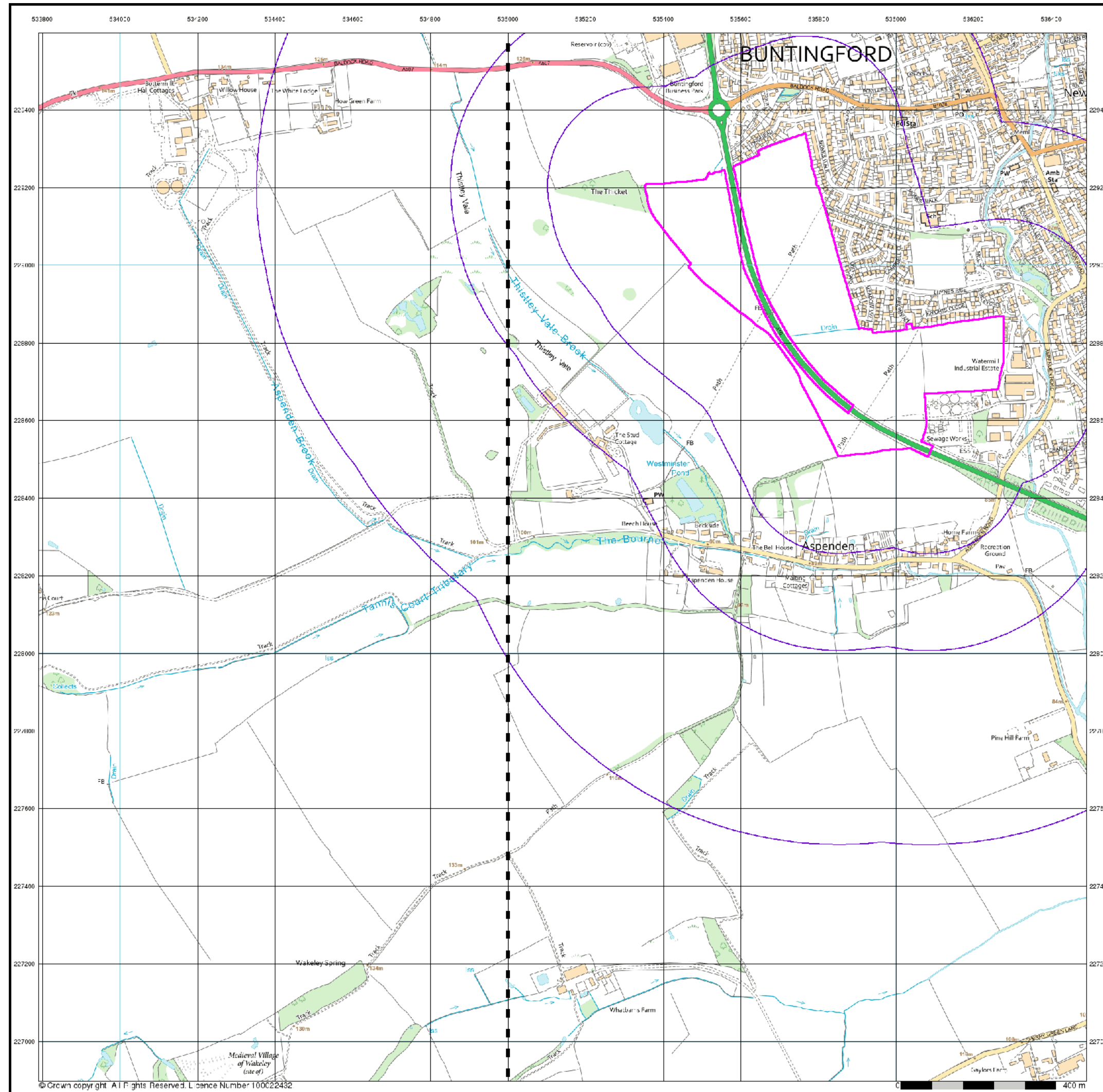
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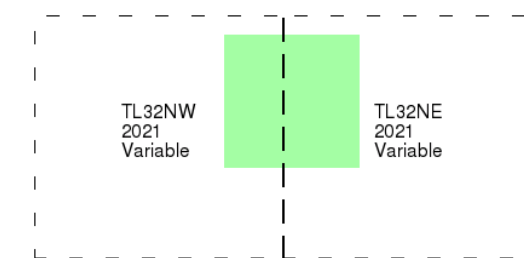
VectorMap Local

Published 2021

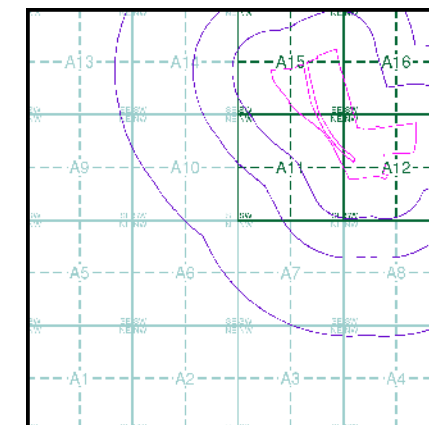
Source map scale - 1:10,000

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: 296189182_1_1
 Customer Ref: 70088938-L01
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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 Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **Pump**
E.P. Electricity Pylon **S.P. Signal Post**
F.B. Foot Bridge **Sl. Sluice**
F.P. Foot Path **Sp. Spring**
G.P. Guide Post or Board **T.C.B. Telephone Call Box**
M.S. Mile Stone **Tr. Trough**
M.P. M.R. Mooring Post or Ring **W. 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** **Top**
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** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
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

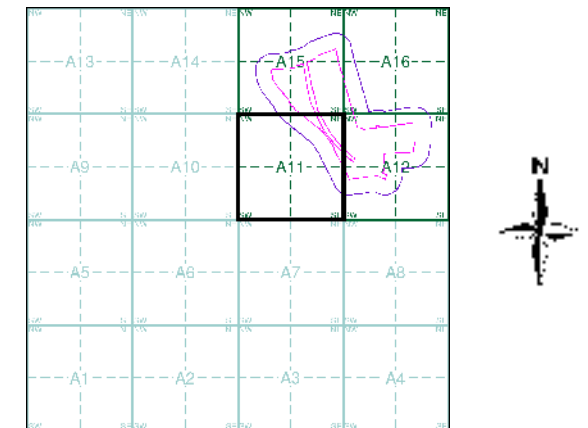
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
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**
Dismtd Rly **Place of Worship**
Electricity Generating Station **Sewage Ppg Sta** **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
Hertfordshire	1:2,500	1878	2
Hertfordshire	1:2,500	1898	3
Hertfordshire	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1975	5
Additional SIMs	1:2,500	1987	6
Large-Scale National Grid Data	1:2,500	1993	7
Large-Scale National Grid Data	1:2,500	1994	8
Large-Scale National Grid Data	1:2,500	1996	9
Historical Aerial Photography	1:2,500	2000	10

Historical Map - Segment A11



Order Details

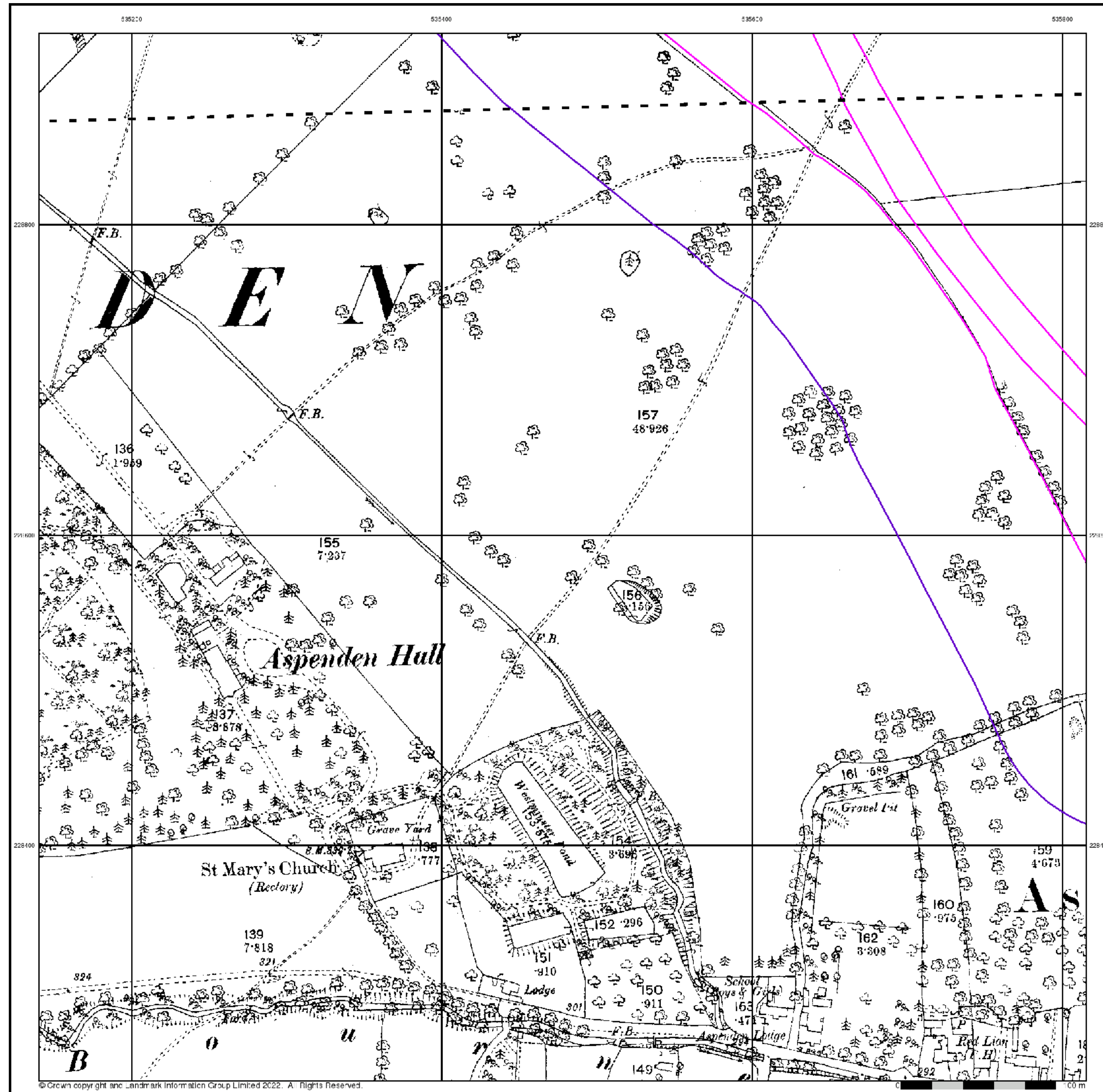
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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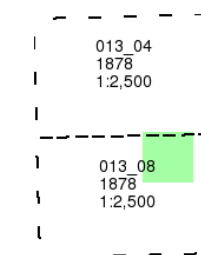
Hertfordshire

Published 1878

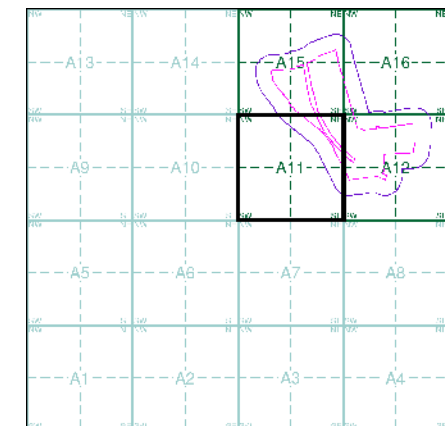
Source map scale - 1:2,500

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 A11



Order Details

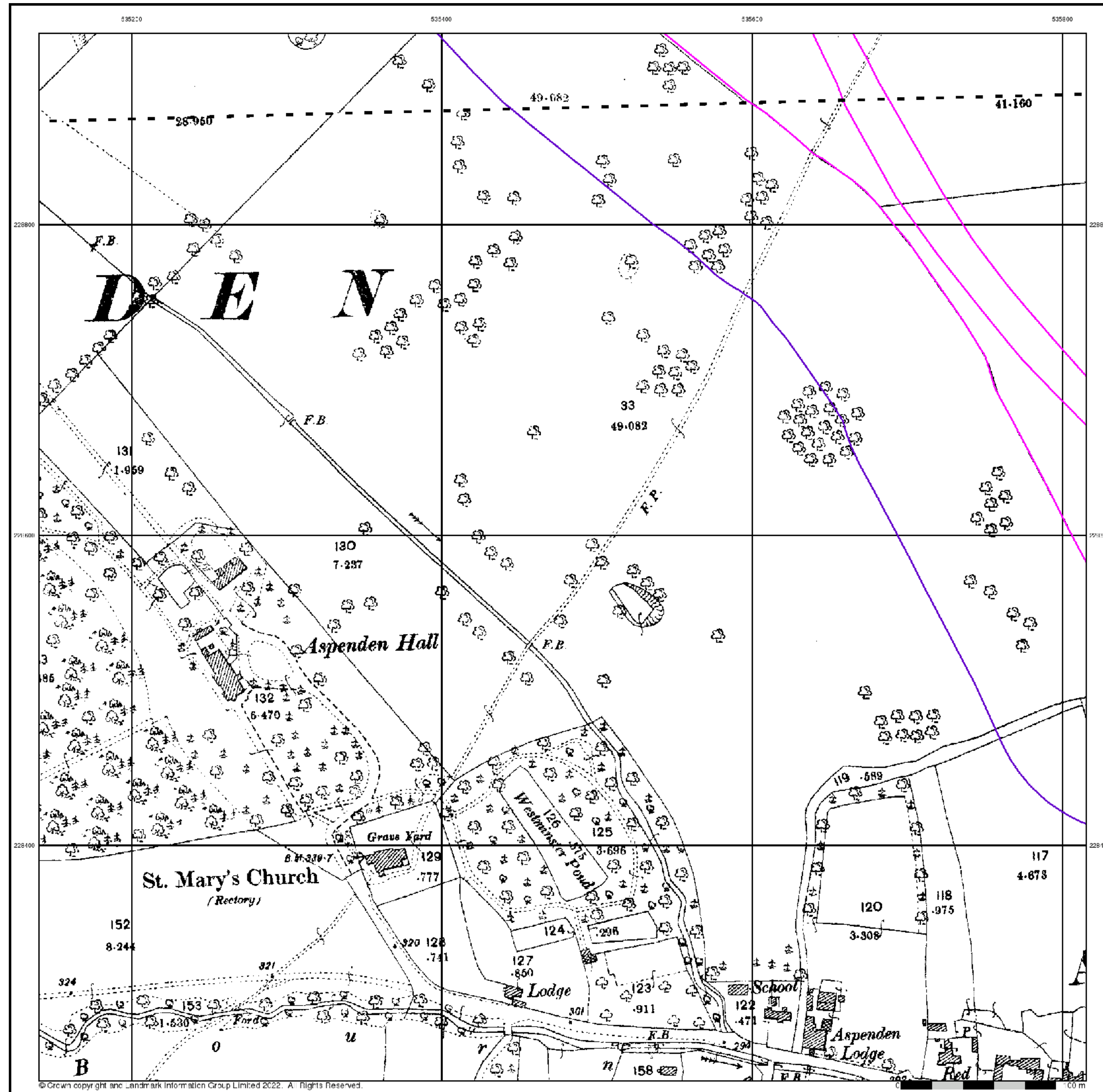
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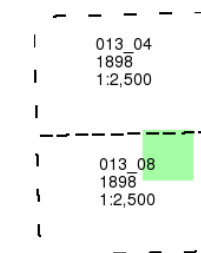
Hertfordshire

Published 1898

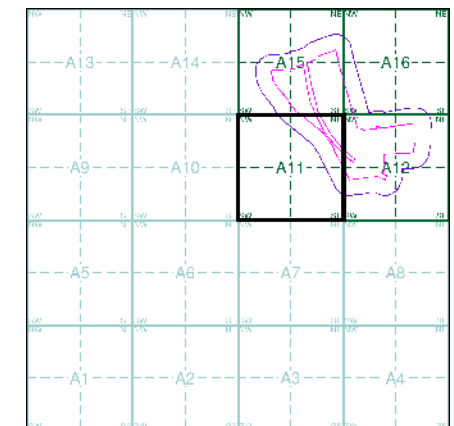
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

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Order Details

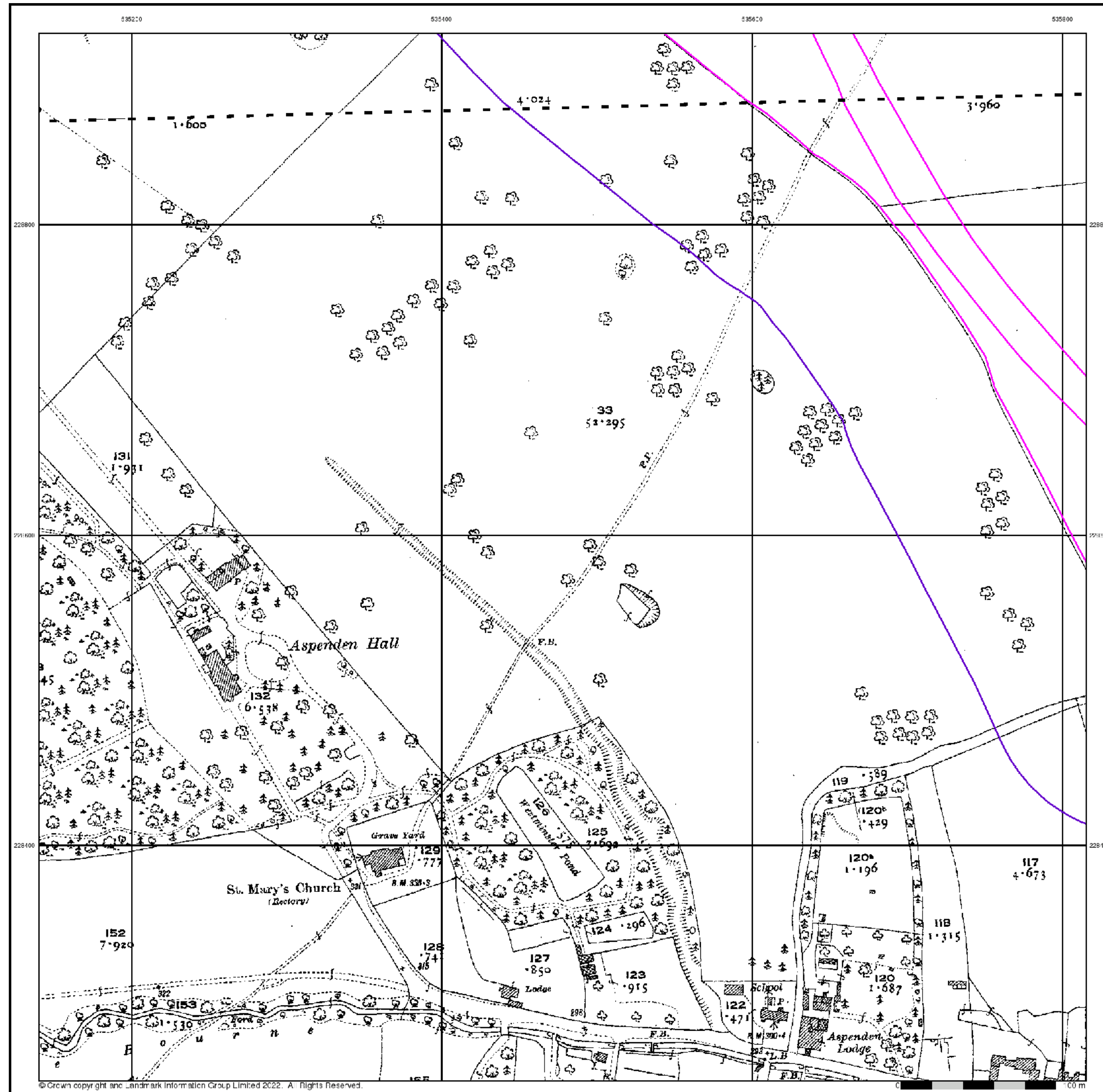
Order Number: 296189182_1_1
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Hertfordshire

Published 1923

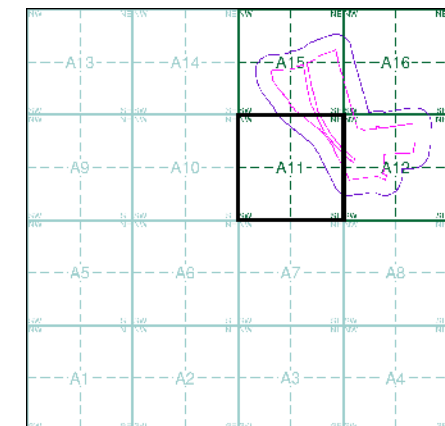
Source map scale - 1:2,500

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)

013_04	1923	1:2,500
013_08	1923	1:2,500

Historical Map - Segment A11



Order Details

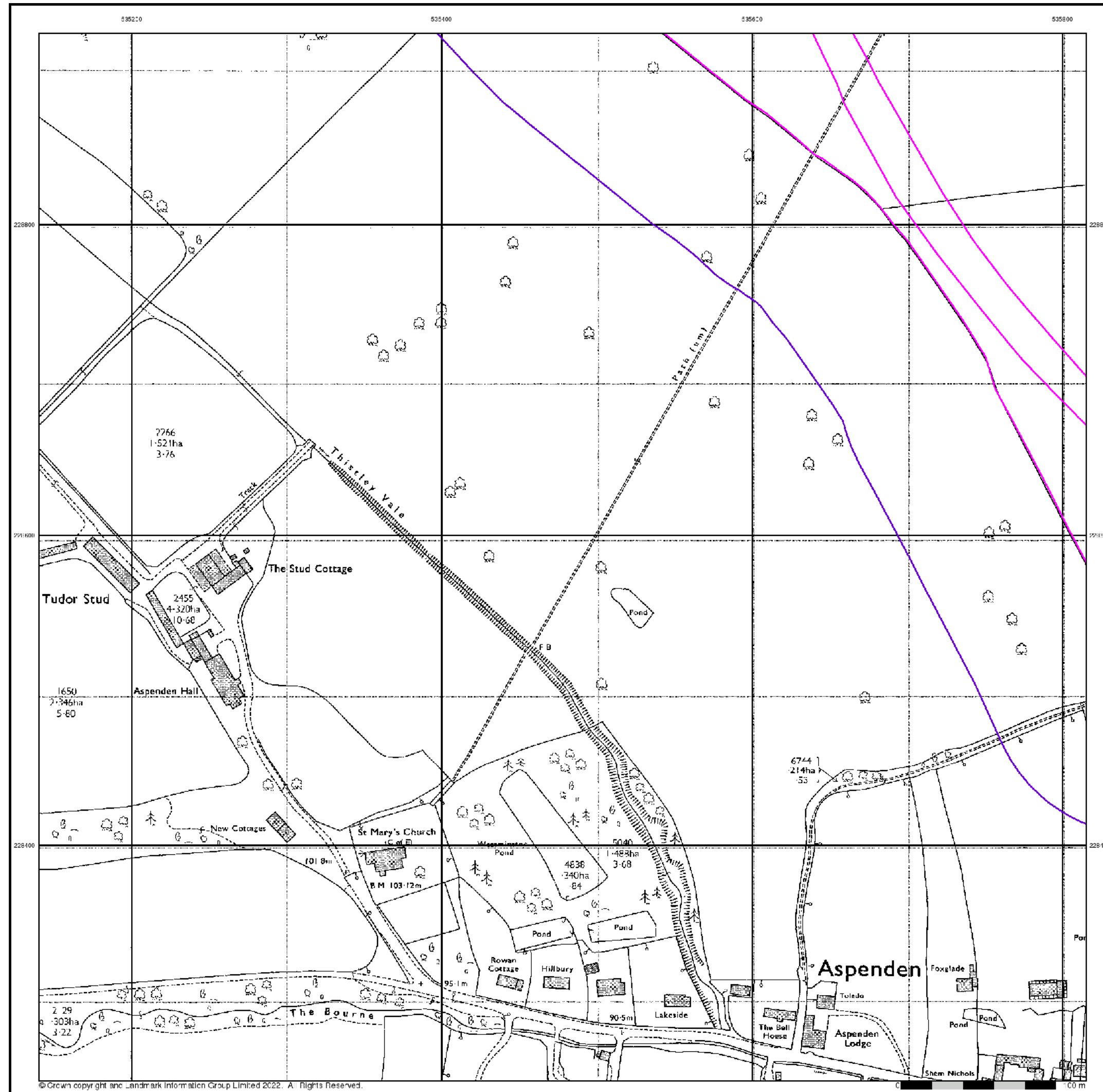
Order Number: 296189182_1_1
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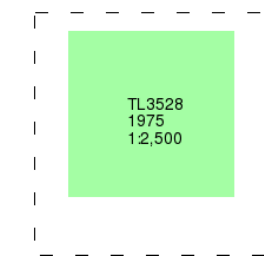
Ordnance Survey Plan

Published 1975

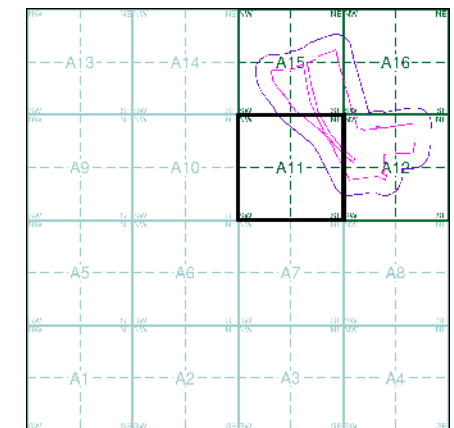
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

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Historical Map - Segment A11



Order Details

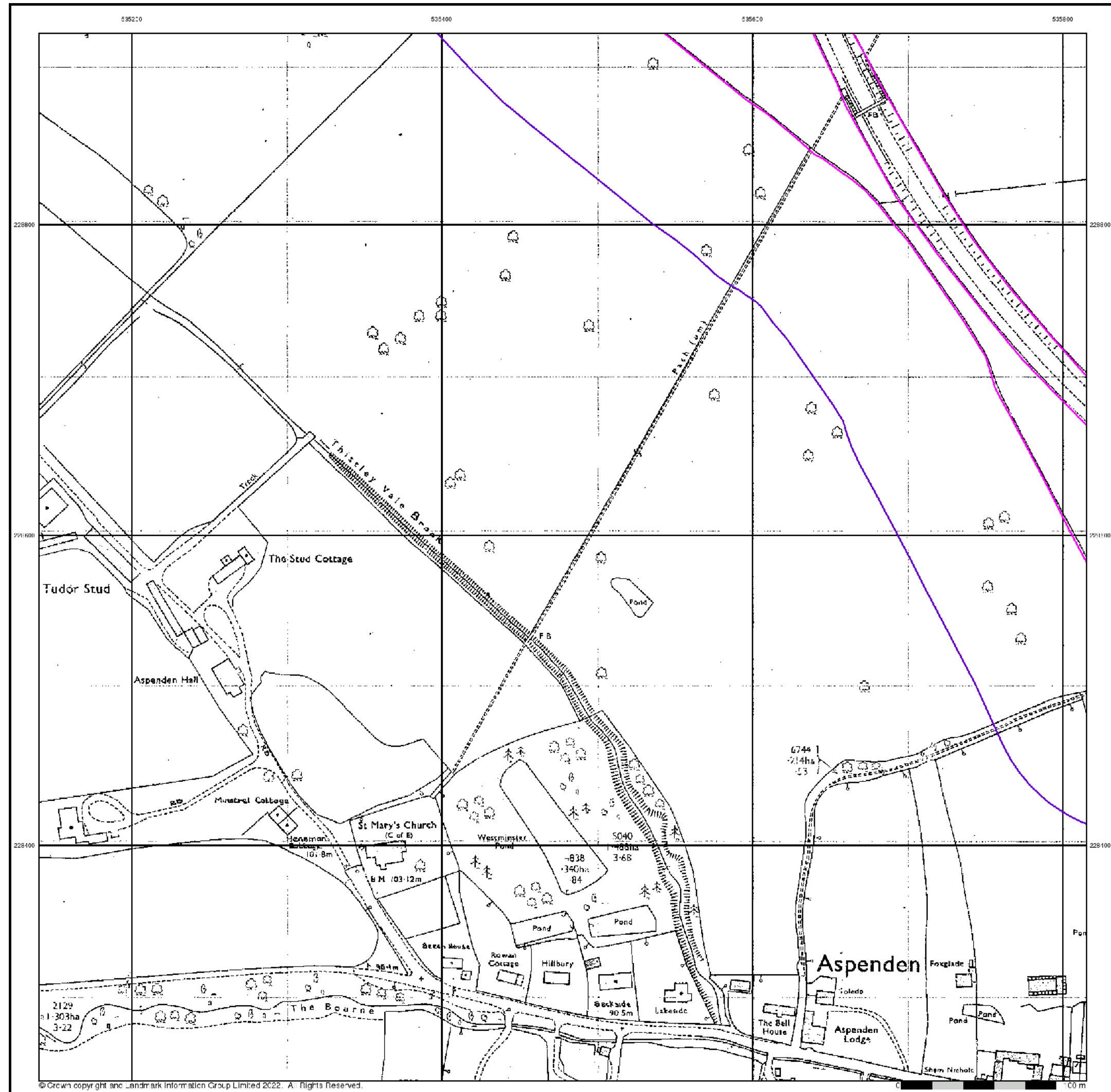
Order Number: 296189182_1_1
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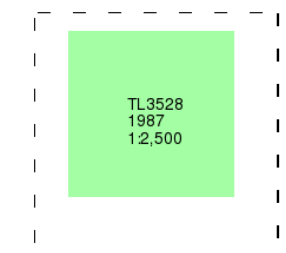
Additional SIMs

Published 1987

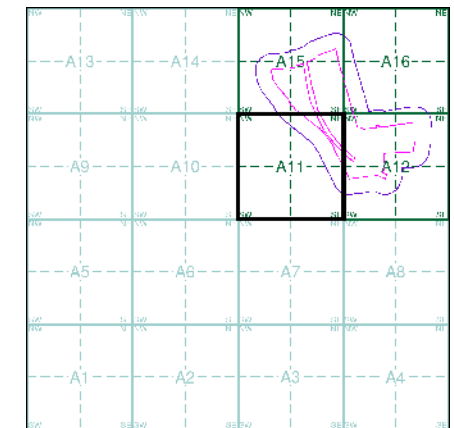
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

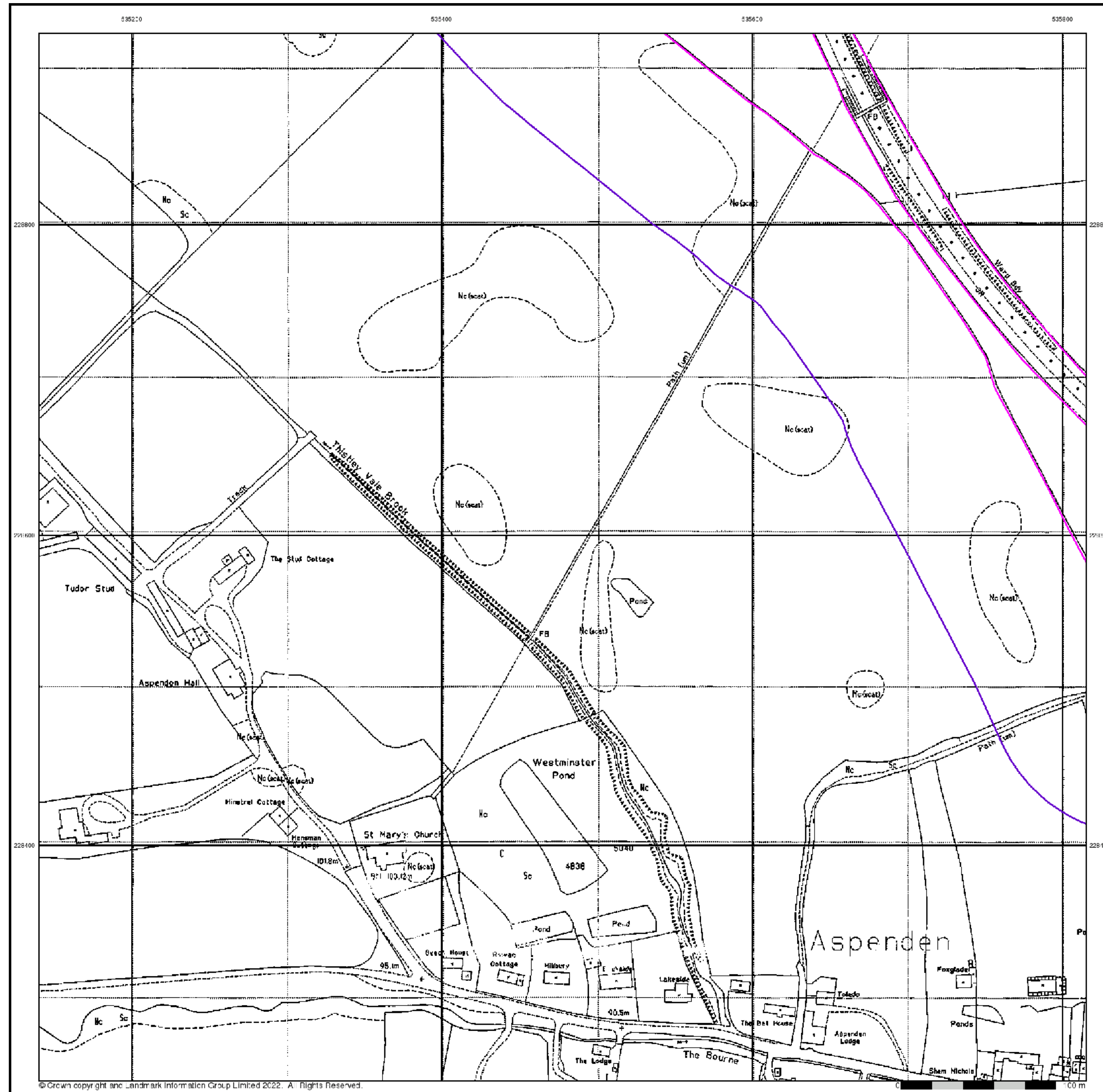
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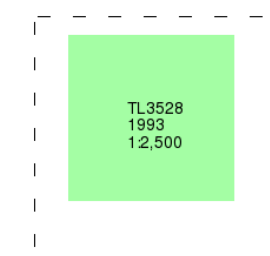
Large-Scale National Grid Data

Published 1993

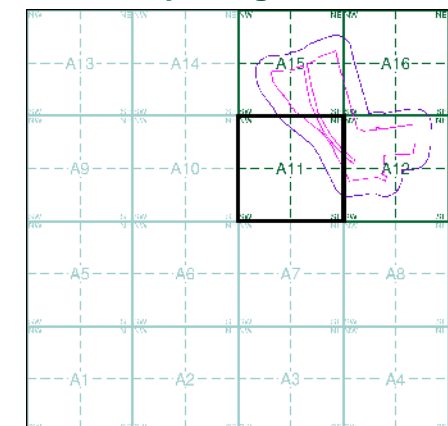
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

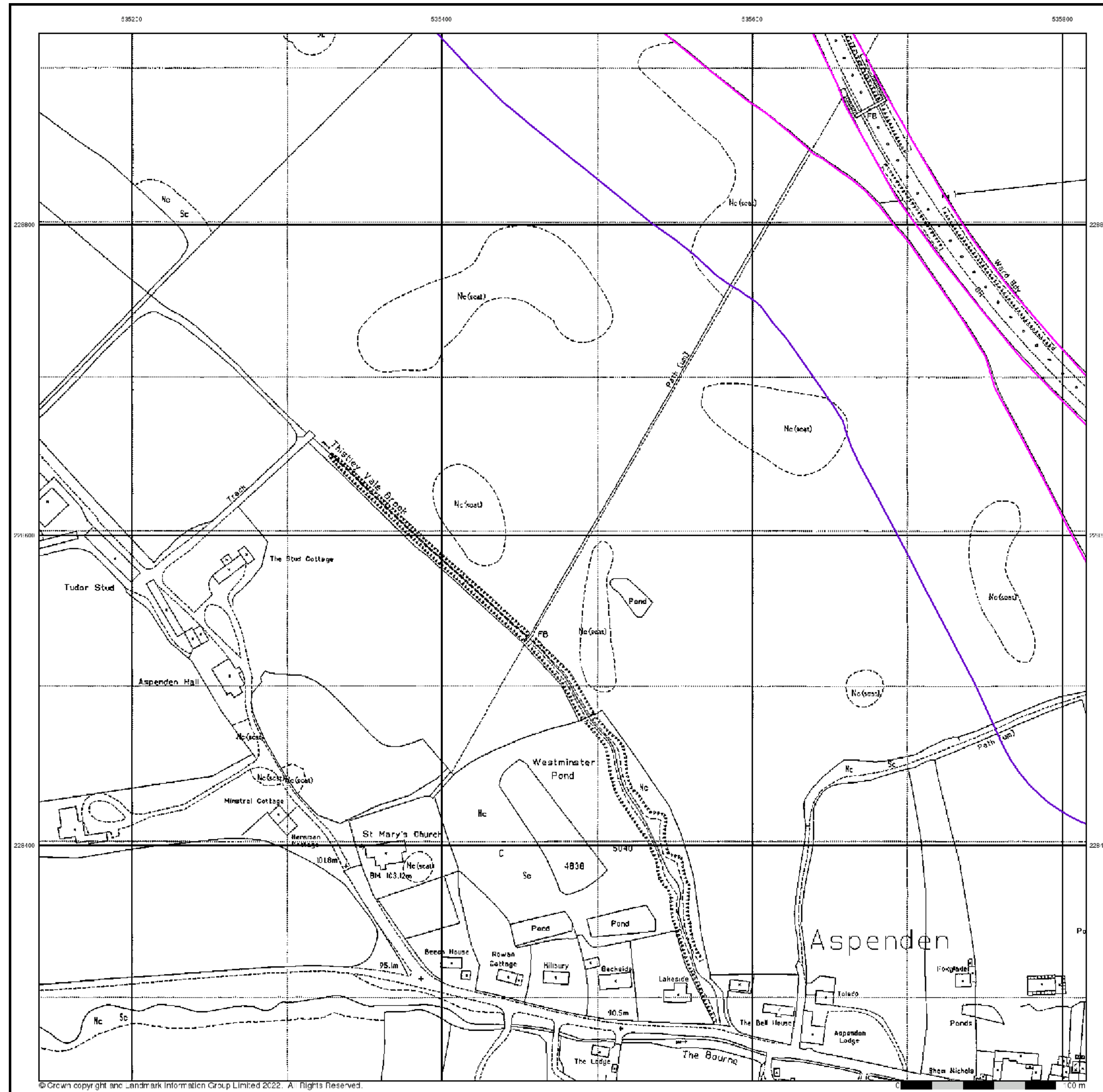
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



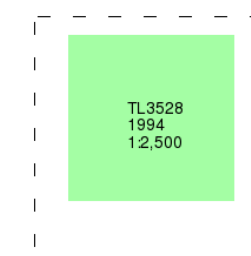
Large-Scale National Grid Data

Published 1994

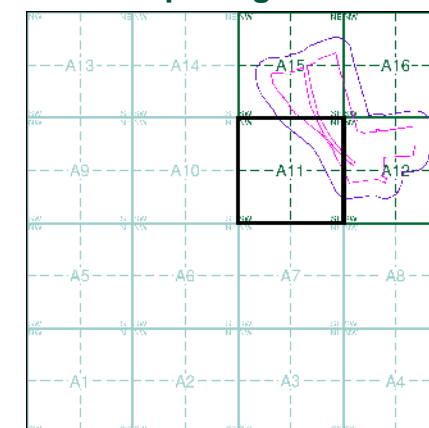
Source map scale - 1:2,500

'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)



Historical Map - Segment A11



Order Details

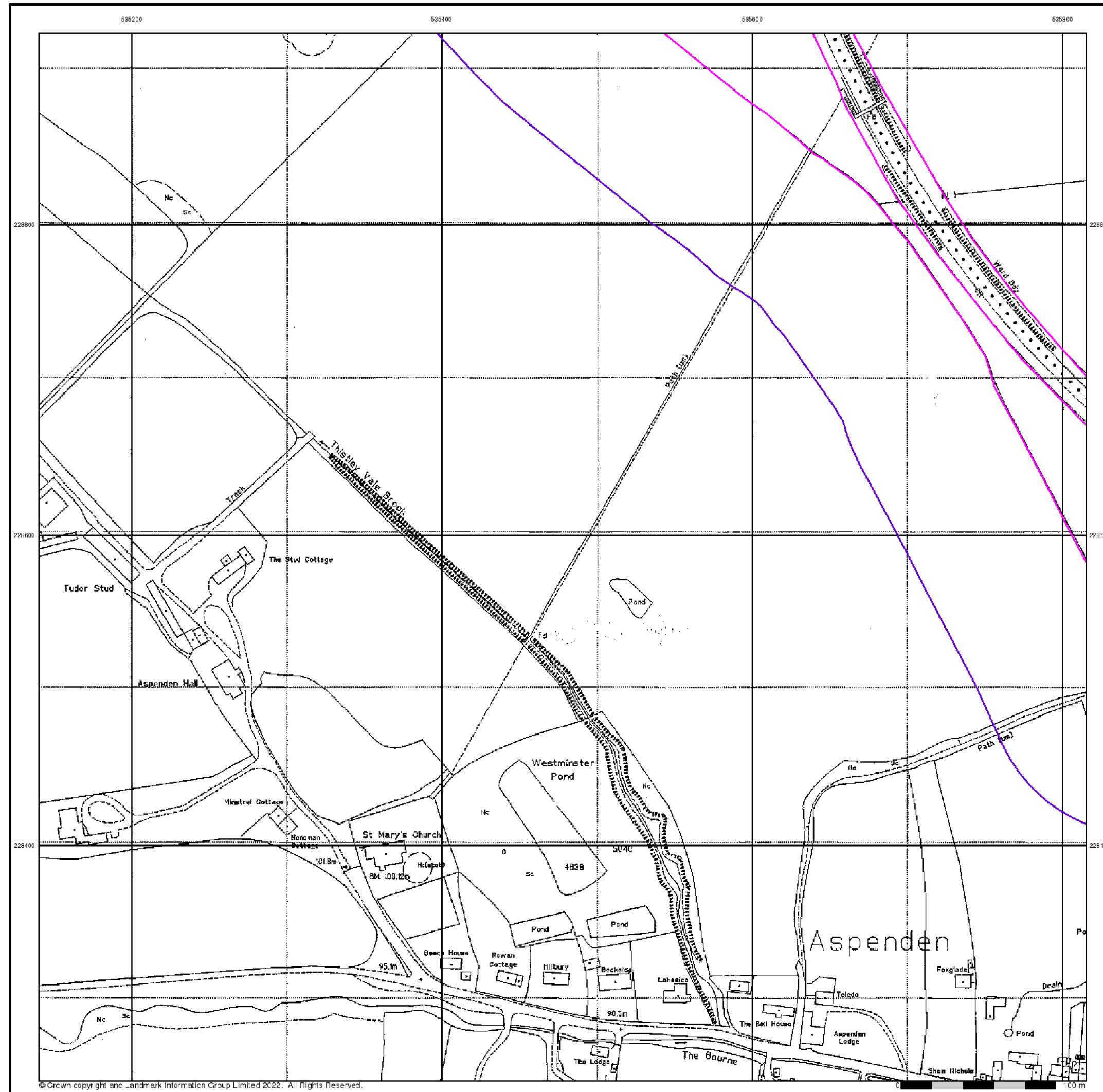
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

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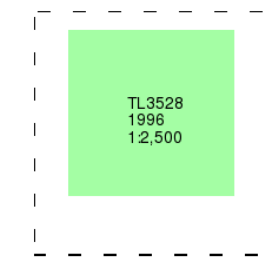
Large-Scale National Grid Data

Published 1996

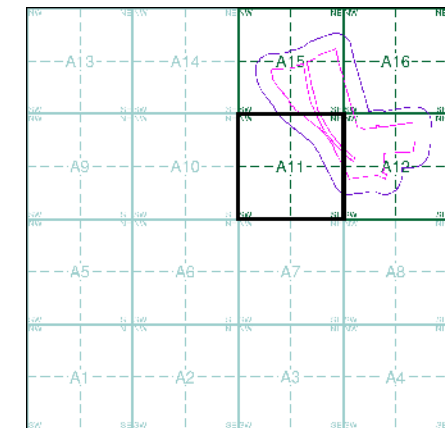
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 296189182_1_1
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535200

535400

535600

535800

228800

228800

228600

228600

228400

228400

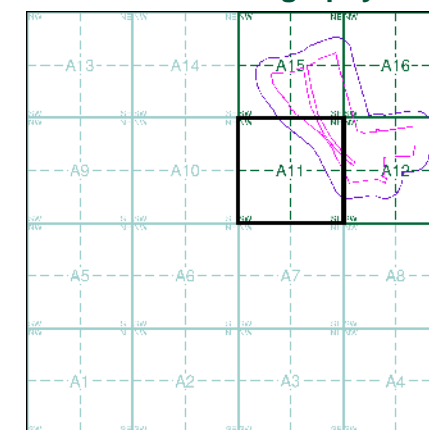


Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A11



Order Details

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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 Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **Pump**
E.P. Electricity Pylon **S.P. Signal Post**
F.B. Foot Bridge **Sl. Sluice**
F.P. Foot Path **Sp. Spring**
G.P. Guide Post or Board **T.C.B. Telephone Call Box**
M.S. Mile Stone **Tr. Trough**
M.P. M.R. Mooring Post or Ring **W. 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** **Top**
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** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
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

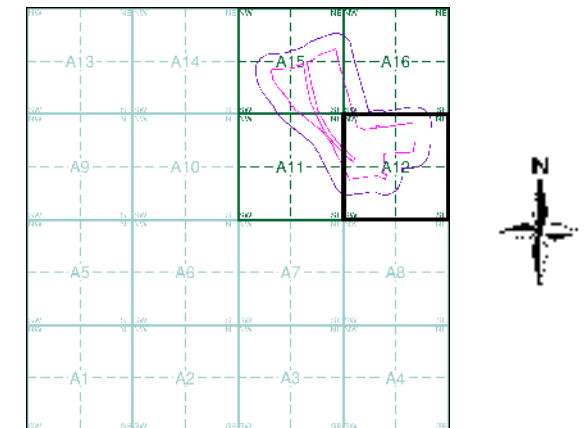
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
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**
Dismtd Rly **Place of Worship**
Electricity Generating Station **Sewage Ppg Sta** **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
Hertfordshire	1:2,500	1878	2
Hertfordshire	1:2,500	1897 - 1898	3
Hertfordshire	1:2,500	1921 - 1923	4
Ordnance Survey Plan	1:2,500	1975	5
Additional SIMs	1:2,500	1984 - 1987	6
Additional SIMs	1:2,500	1987	7
Additional SIMs	1:2,500	1992	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1994	10
Large-Scale National Grid Data	1:2,500	1996	11
Historical Aerial Photography	1:2,500	2000	12

Historical Map - Segment A12



Order Details

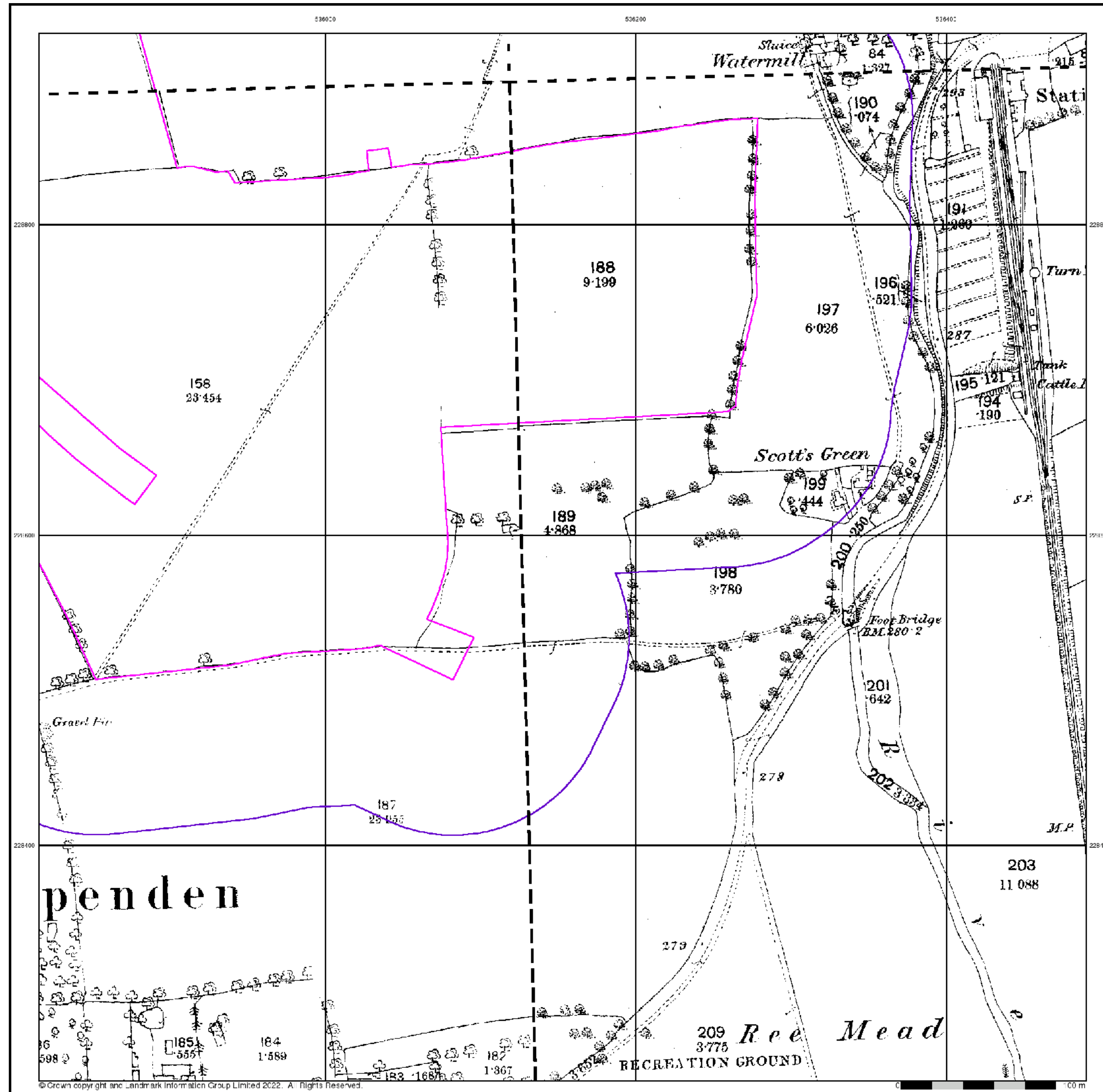
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
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Hertfordshire

Published 1878

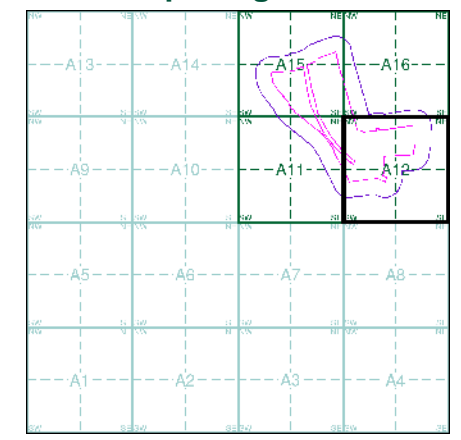
Source map scale - 1:2,500

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)

013_04 1878 1:2,500	014_01 1878 1:2,500
013_08 1878 1:2,500	014_05 1878 1:2,500

Historical Map - Segment A12



Order Details

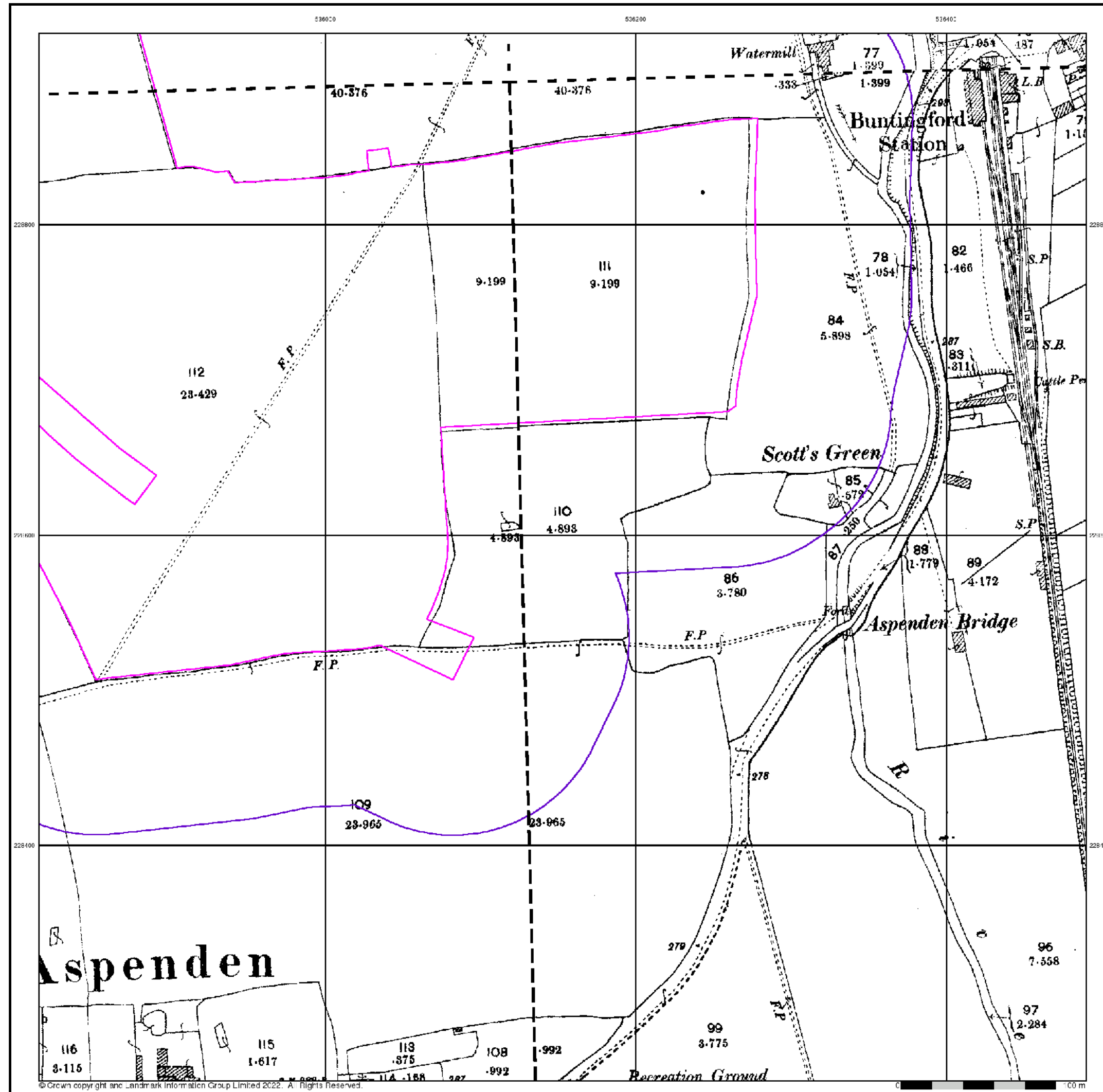
Order Number: 296189182_1_1
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Hertfordshire

Published 1897 - 1898

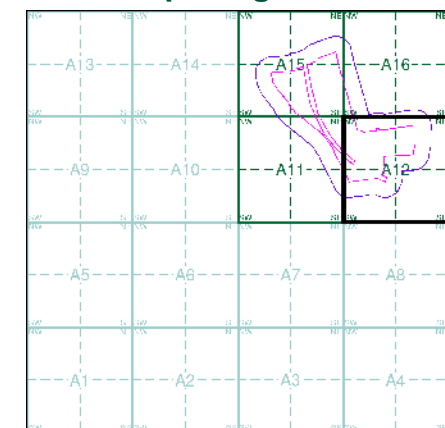
Source map scale - 1:2,500

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)

013_04 1898 1:2,500	014_01 1897 1:2,500
013_08 1898 1:2,500	014_05 1897 1:2,500

Historical Map - Segment A12



Order Details

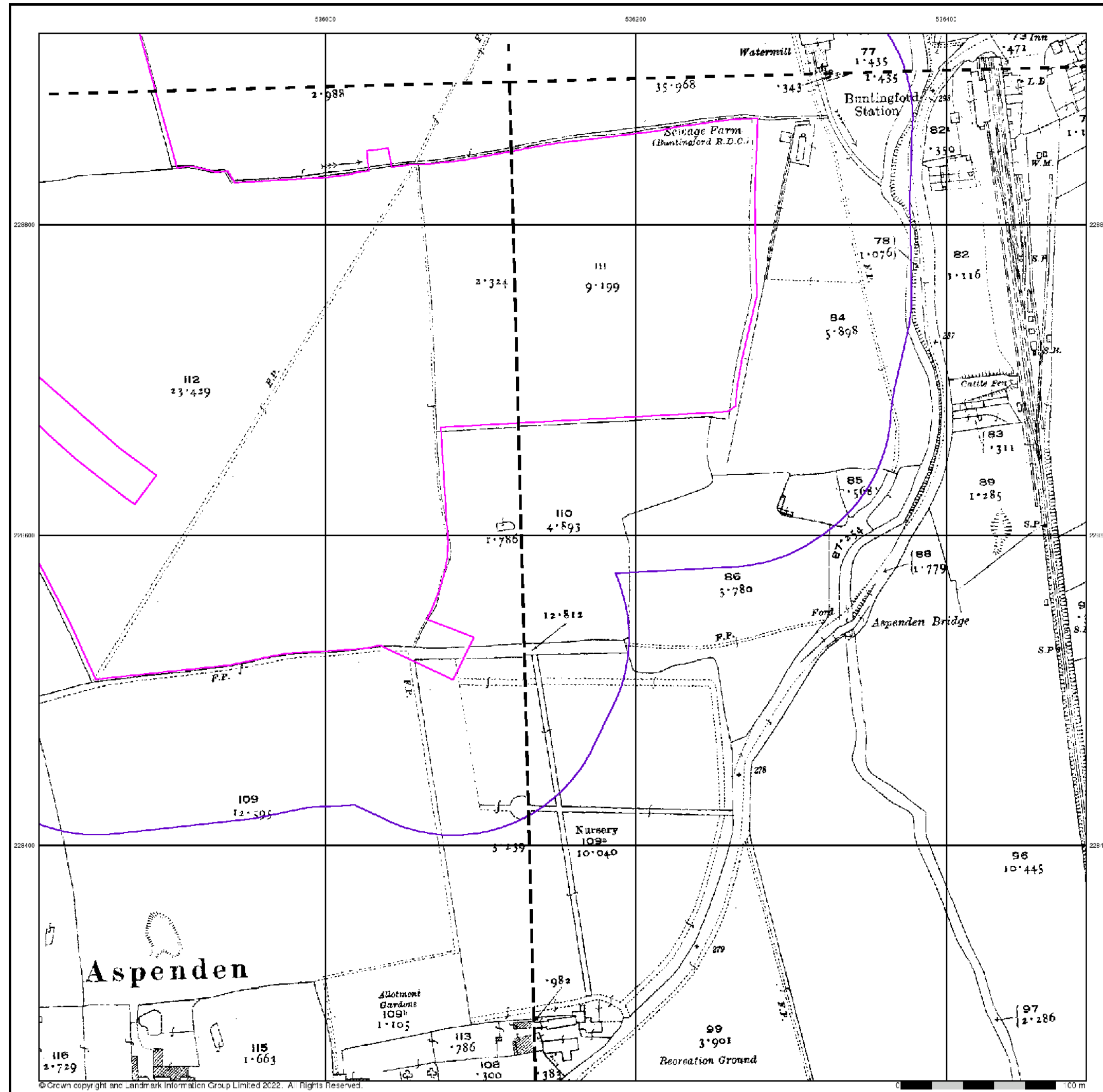
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
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Hertfordshire

Published 1921 - 1923

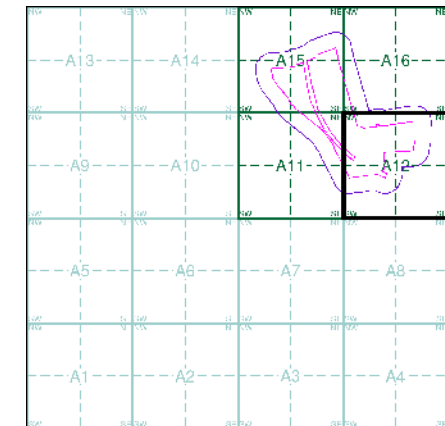
Source map scale - 1:2,500

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)

013_04 1923 1:2,500	014_01 1921 1:2,500
013_08 1923 1:2,500	014_05 1921 1:2,500

Historical Map - Segment A12



Order Details

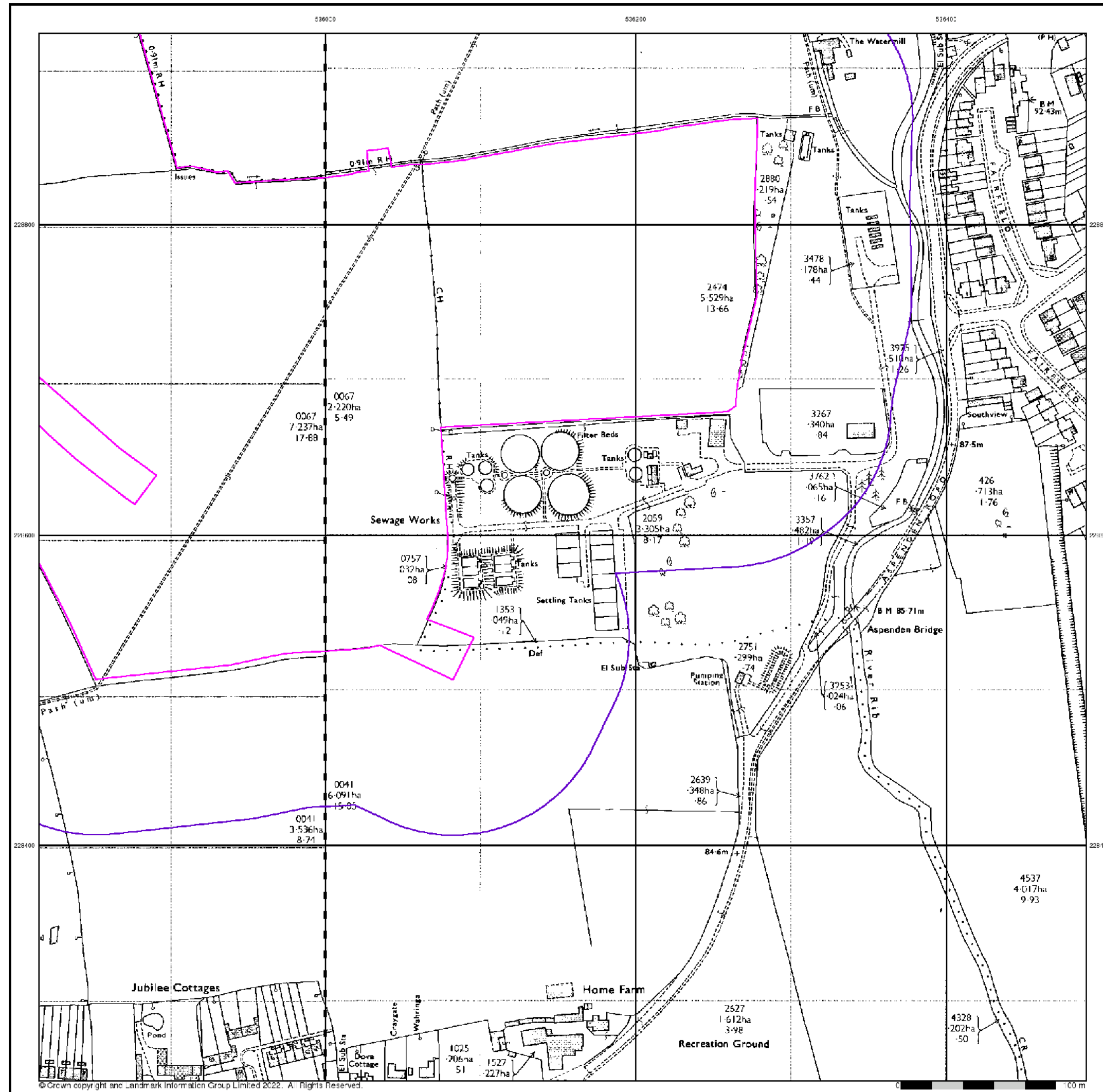
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
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Site Details

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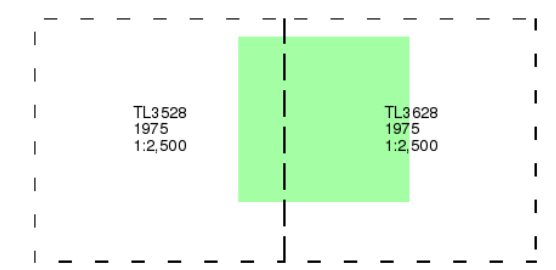
Tel: 0844 844 9952
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 Web: www.envirocheck.co.uk



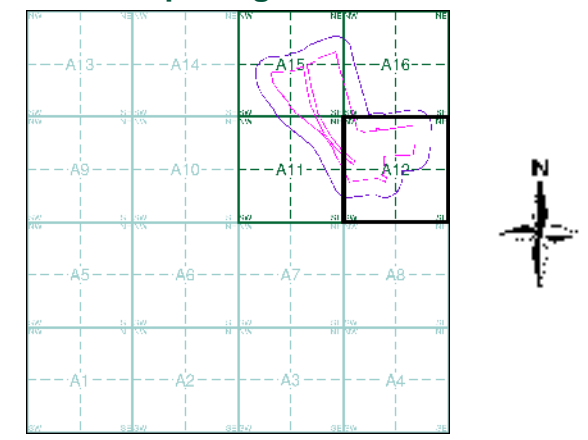
Ordnance Survey Plan
Published 1975
Source map scale - 1:2,500

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)



Historical Map - Segment A12



Order Details

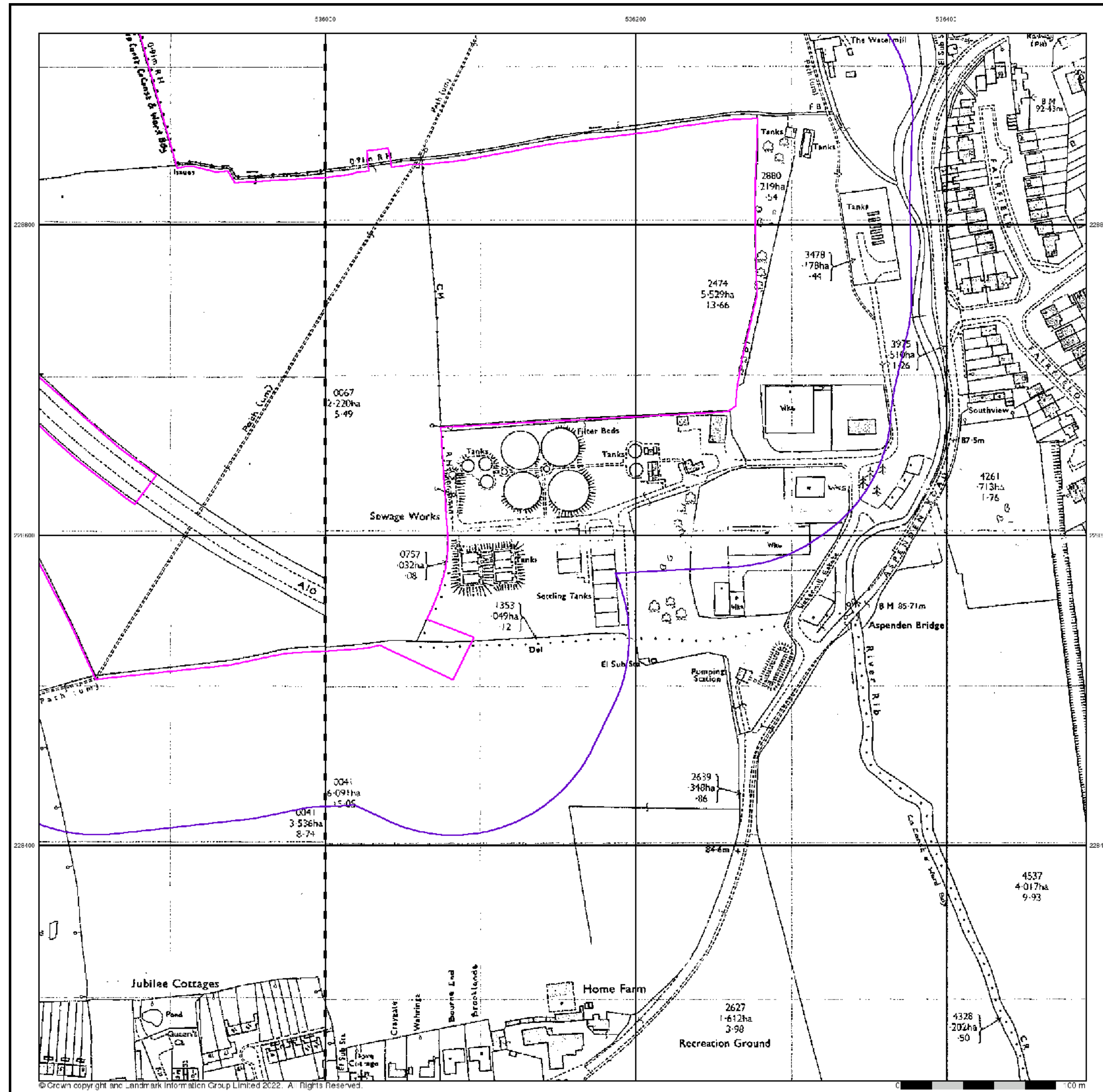
Order Number: 296189182_1_1
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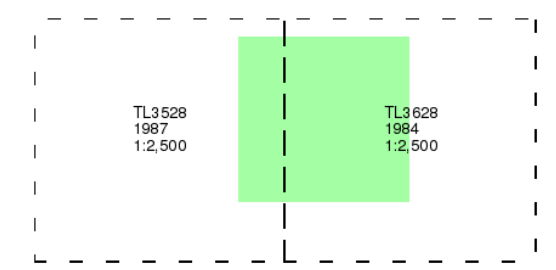
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



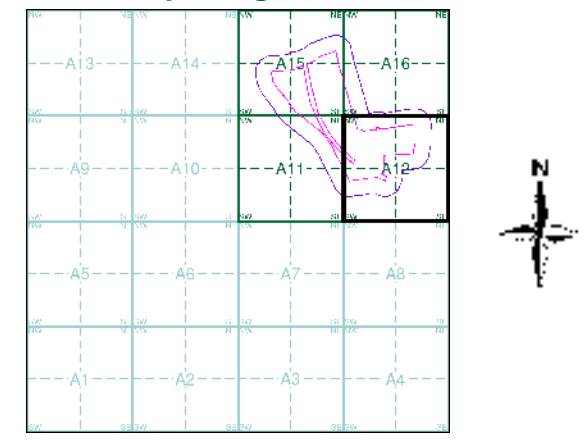
Additional SIMs
Published 1984 - 1987
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

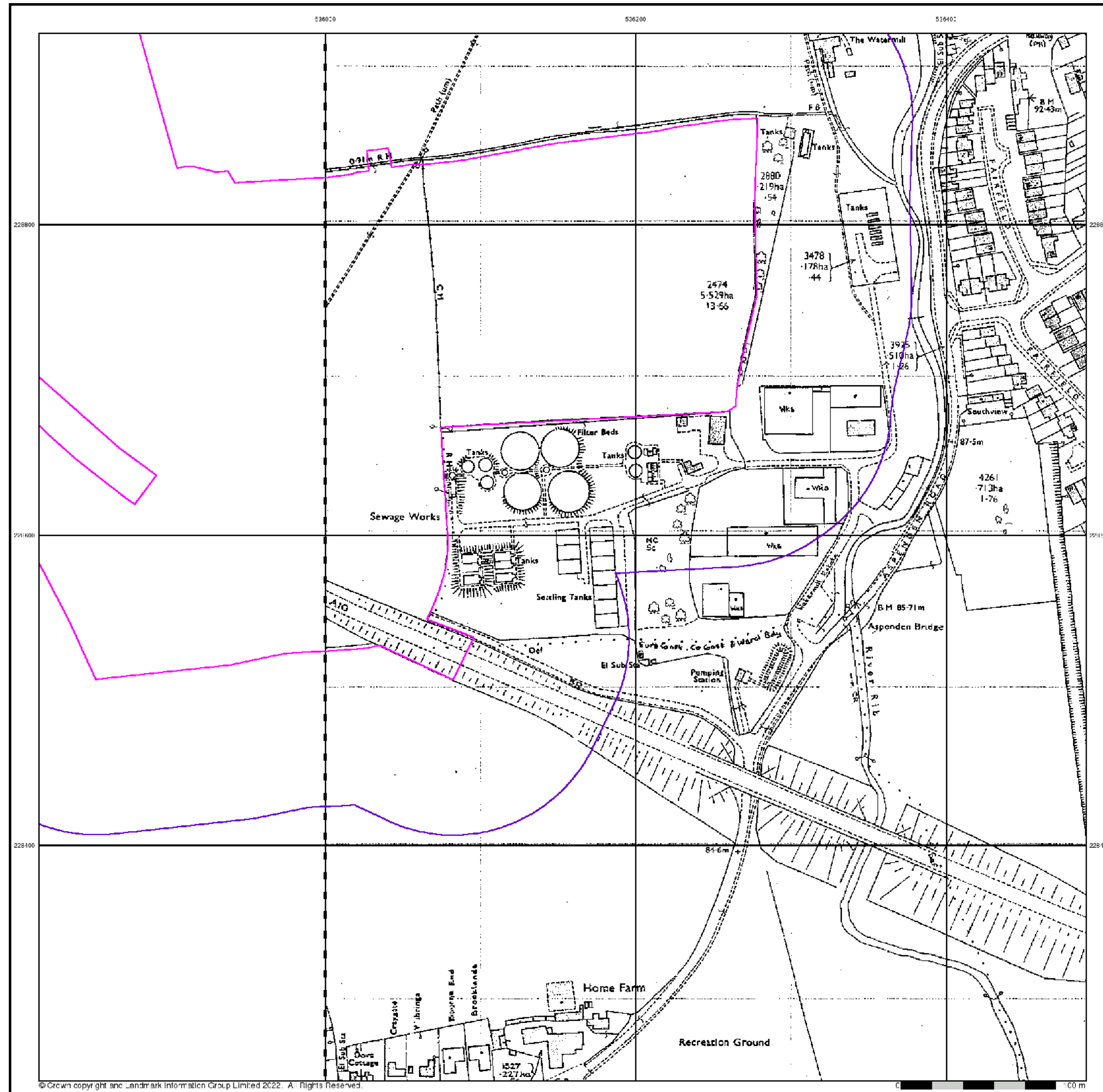
Order Number: 296189182_1_1
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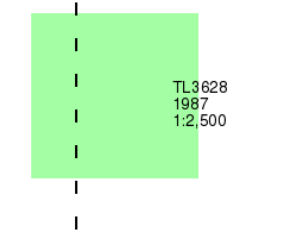
Additional SIMs

Published 1987

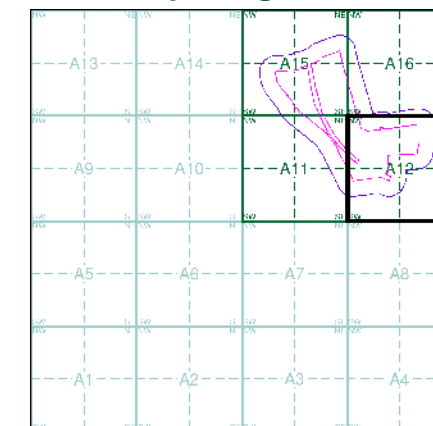
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



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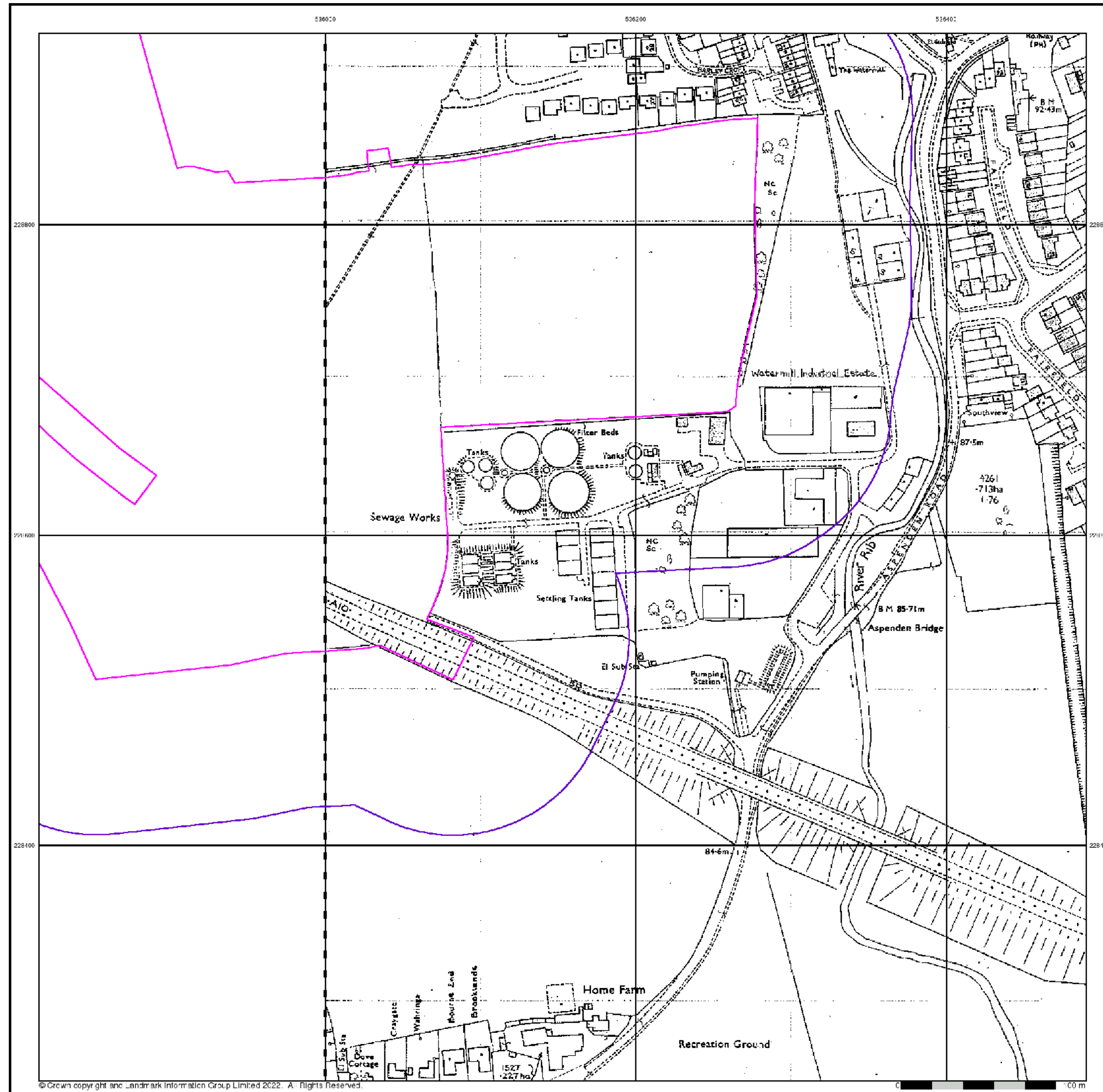
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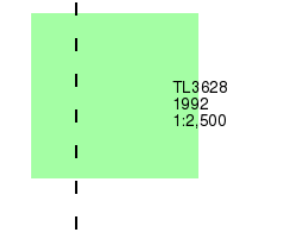
Additional SIMs

Published 1992

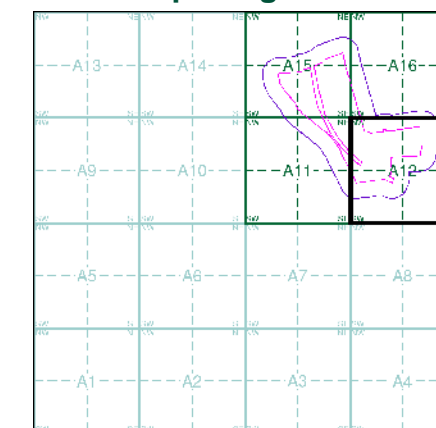
Source map scale - 1:2,500

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Order Details

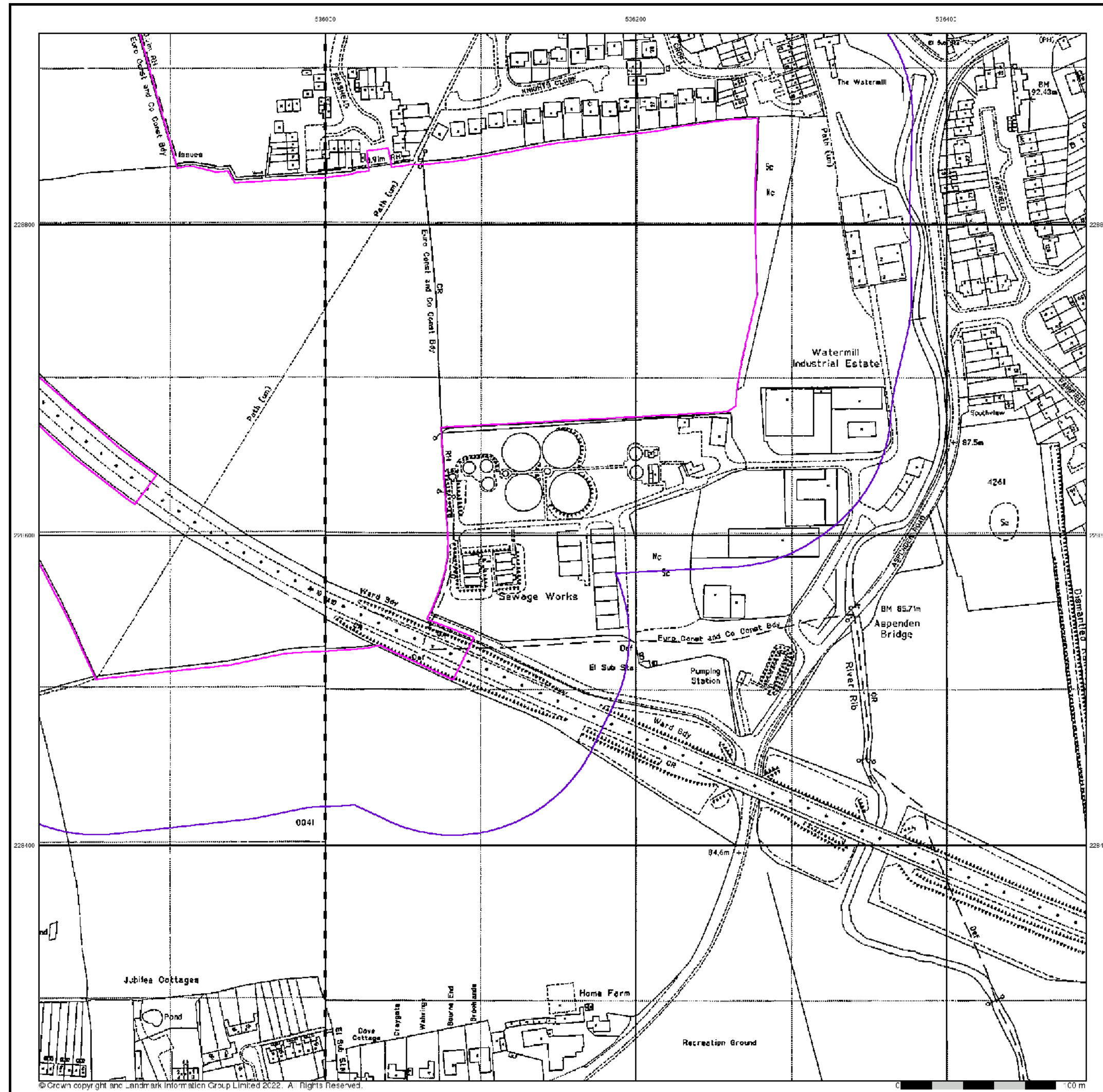
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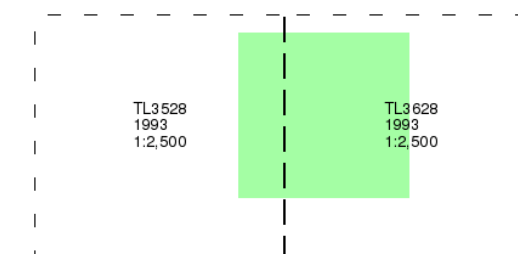
Large-Scale National Grid Data

Published 1993

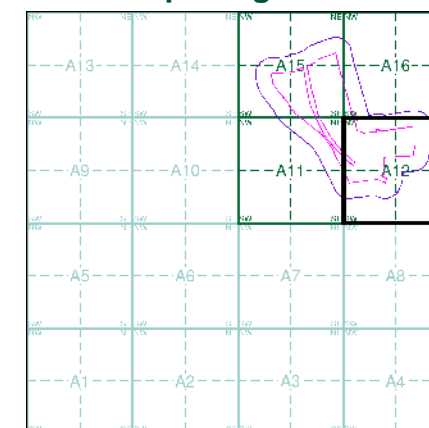
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

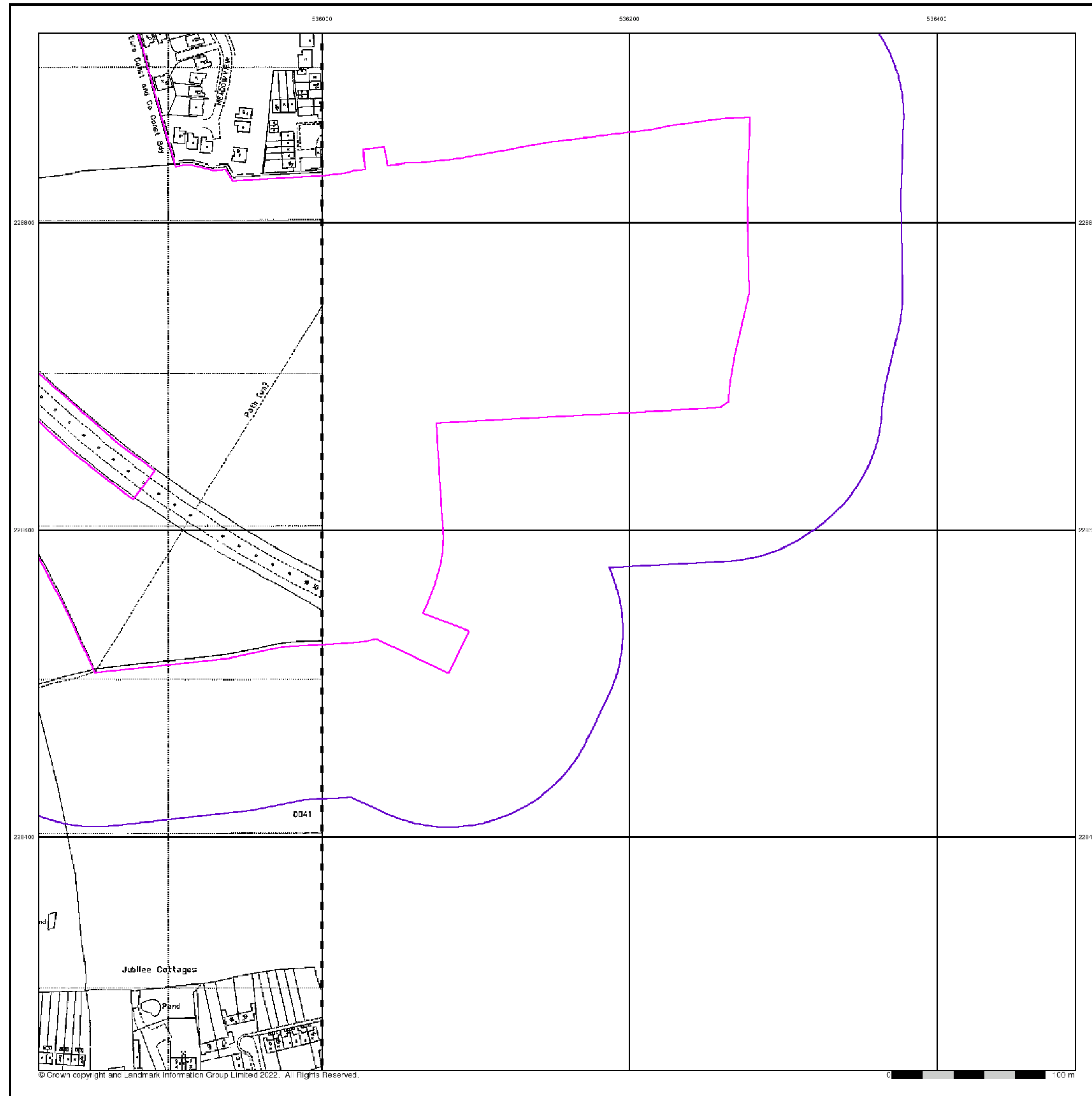
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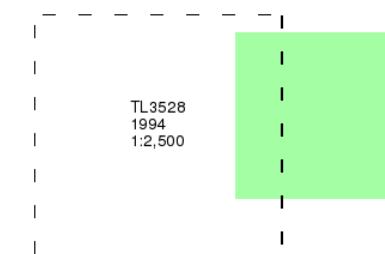
Large-Scale National Grid Data

Published 1994

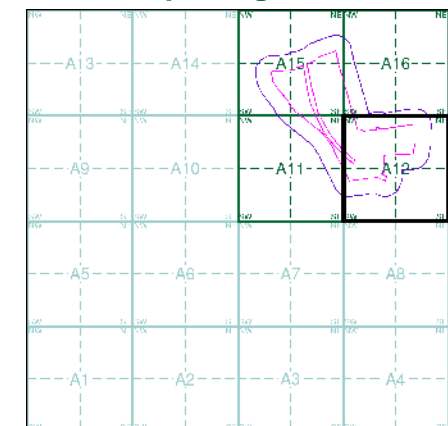
Source map scale - 1:2,500

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Historical Map - Segment A12



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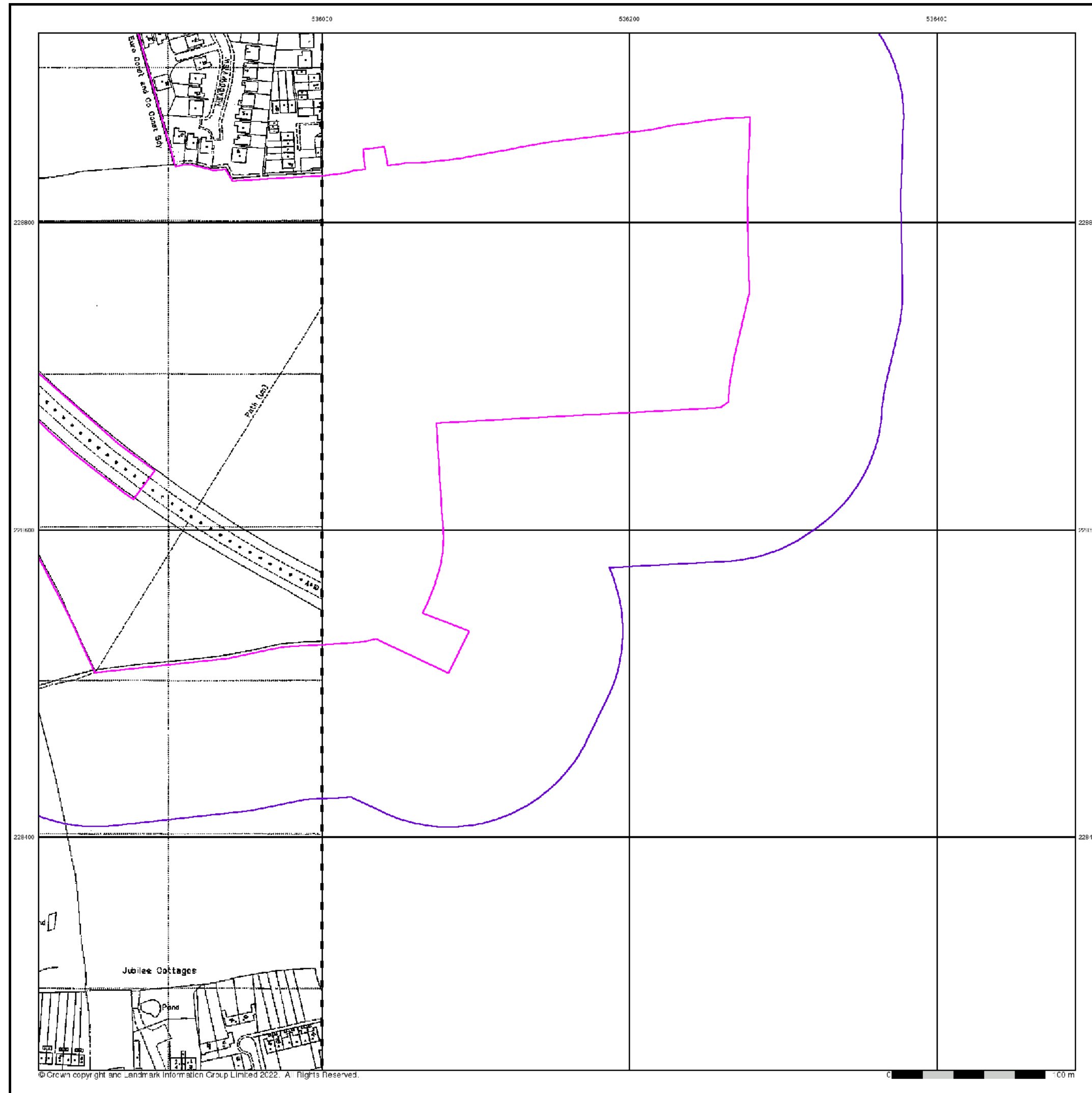
Order Number: 296189182_1_1
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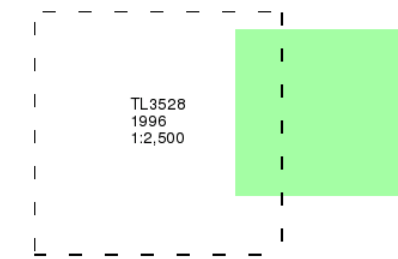
Large-Scale National Grid Data

Published 1996

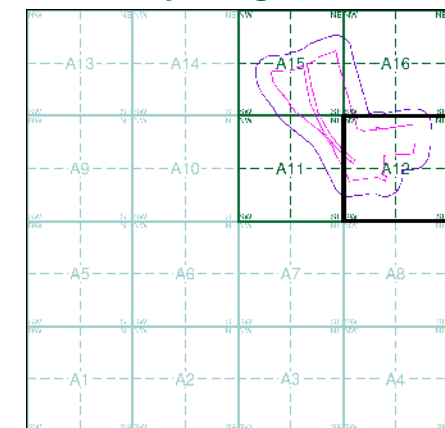
Source map scale - 1:2,500

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536000

536200

536400



Historical Aerial Photography

Published 2000

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

228800

228800

228600

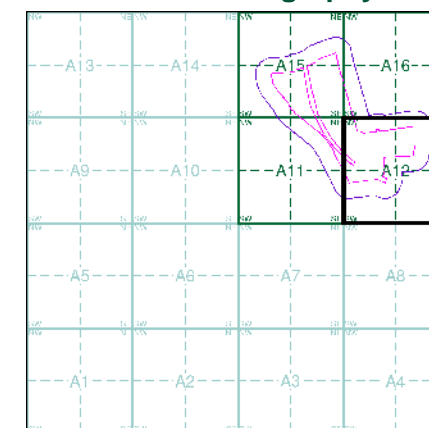
228600

228400

228400



Historical Aerial Photography - Segment A12



Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG

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 Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **Pump**
E.P. Electricity Pylon **S.P. Signal Post**
F.B. Foot Bridge **Sl. Sluice**
F.P. Foot Path **Sp. Spring**
G.P. Guide Post or Board **T.C.B. Telephone Call Box**
M.S. Mile Stone **Tr. Trough**
M.P. M.R. Mooring Post or Ring **W. 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** **Top**
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** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P Pillar, Pole or Post**
BP, BS Boundary Post or Stone **PO Post Office**
Cn, C Capstan, Crane **PC Public Convenience**
Chy Chimney **PH Public House**
D Fn Drinking Fountain **Pp Pump**
EI P Electricity Pillar or Post **SB, S Br Signal Box or Bridge**
FAP Fire Alarm Pillar **SP, SL Signal Post or Light**
FB Foot Bridge **Spr Spring**
GP Guide Post **Tk Tank or Track**
H Hydrant or Hydraulic **TCB Telephone Call Box**
LC Level Crossing **TCP Telephone Call Post**
MH Manhole **Tr Trough**
MP Mile Post or Mooring Post **Wr Pt, Wr T Water Point, Water Tap**
MS Mile Stone **W Well**
NTL Normal Tidal Limit **Wd Pp Wind Pump**

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

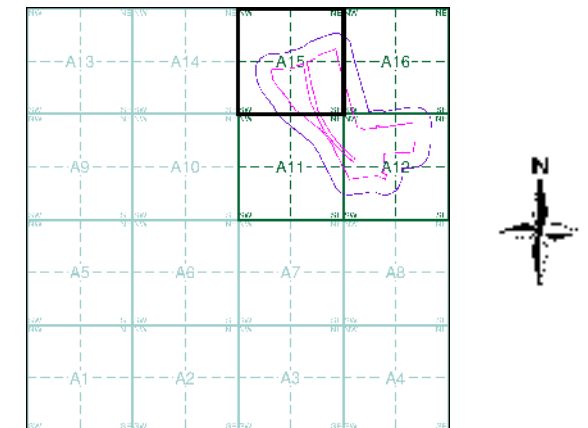
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
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Direction of water flow **Triangulation Station** **Antiquity (site of)**
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)
Bks Barracks **P Pillar, Pole or Post**
Bty Battery **PO Post Office**
Cemy Cemetery **PC Public Convenience**
Chy Chimney **Pp Pump**
Cis Cistern **Ppg Sta Pumping Station**
Dismtd Rly Dismantled Railway **PW Place of Worship**
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta Sewage Pumping Station**
EI P Electricity Pole, Pillar **SB, S Br Signal Box or Bridge**
EI Sub Sta Electricity Sub Station **SP, SL Signal Post or Light**
FB Filter Bed **Spr Spring**
Fn / D Fn Fountain / Drinking Ftn. **Tk Tank or Track**
Gas Gov Gas Valve Compound **Tr Trough**
GVC Gas Governor **Wd Pp Wind Pump**
GP Guide Post **Wr Pt, Wr T Water Point, Water Tap**
MH Manhole **Wks Works (building or area)**
MP, MS Mile Post or Mile Stone **W Well**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:2,500	1878	2
Hertfordshire	1:2,500	1898	3
Hertfordshire	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1975	5
Additional SIMs	1:2,500	1985 - 1987	6
Additional SIMs	1:2,500	1987	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1994 - 1995	9
Large-Scale National Grid Data	1:2,500	1996	10
Large-Scale National Grid Data	1:2,500	1996	11
Historical Aerial Photography	1:2,500	2000	12

Historical Map - Segment A15



Order Details

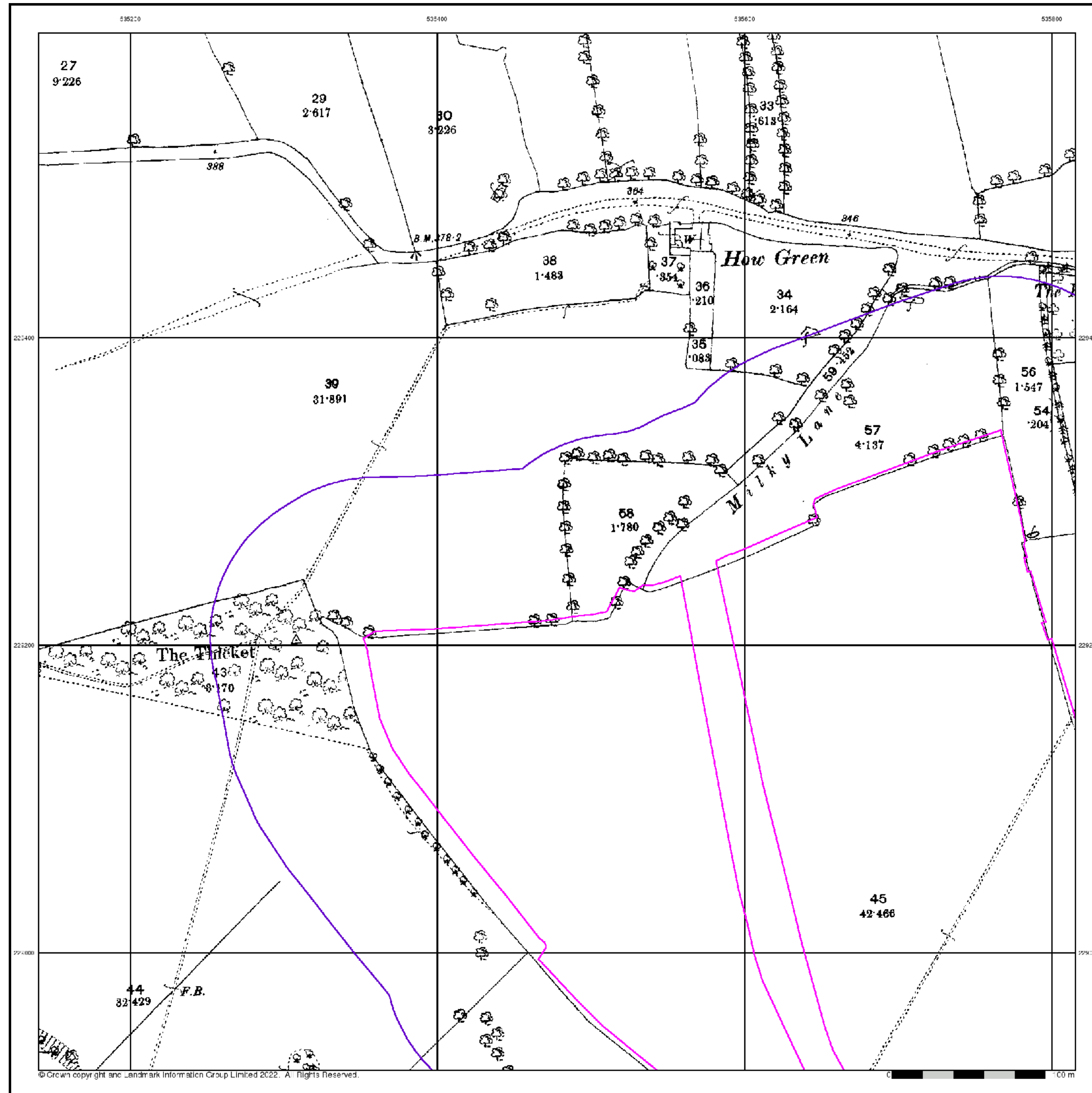
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



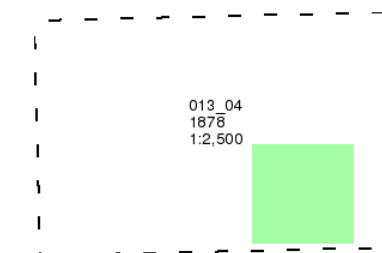
Hertfordshire

Published 1878

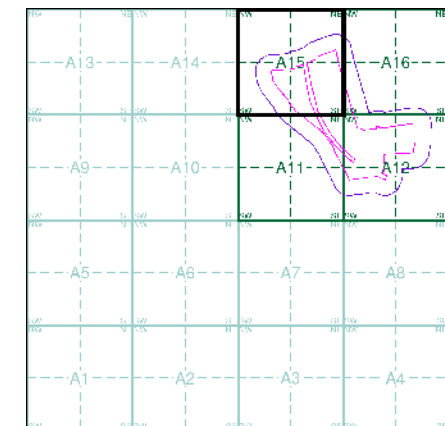
Source map scale - 1:2,500

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 A15



Order Details

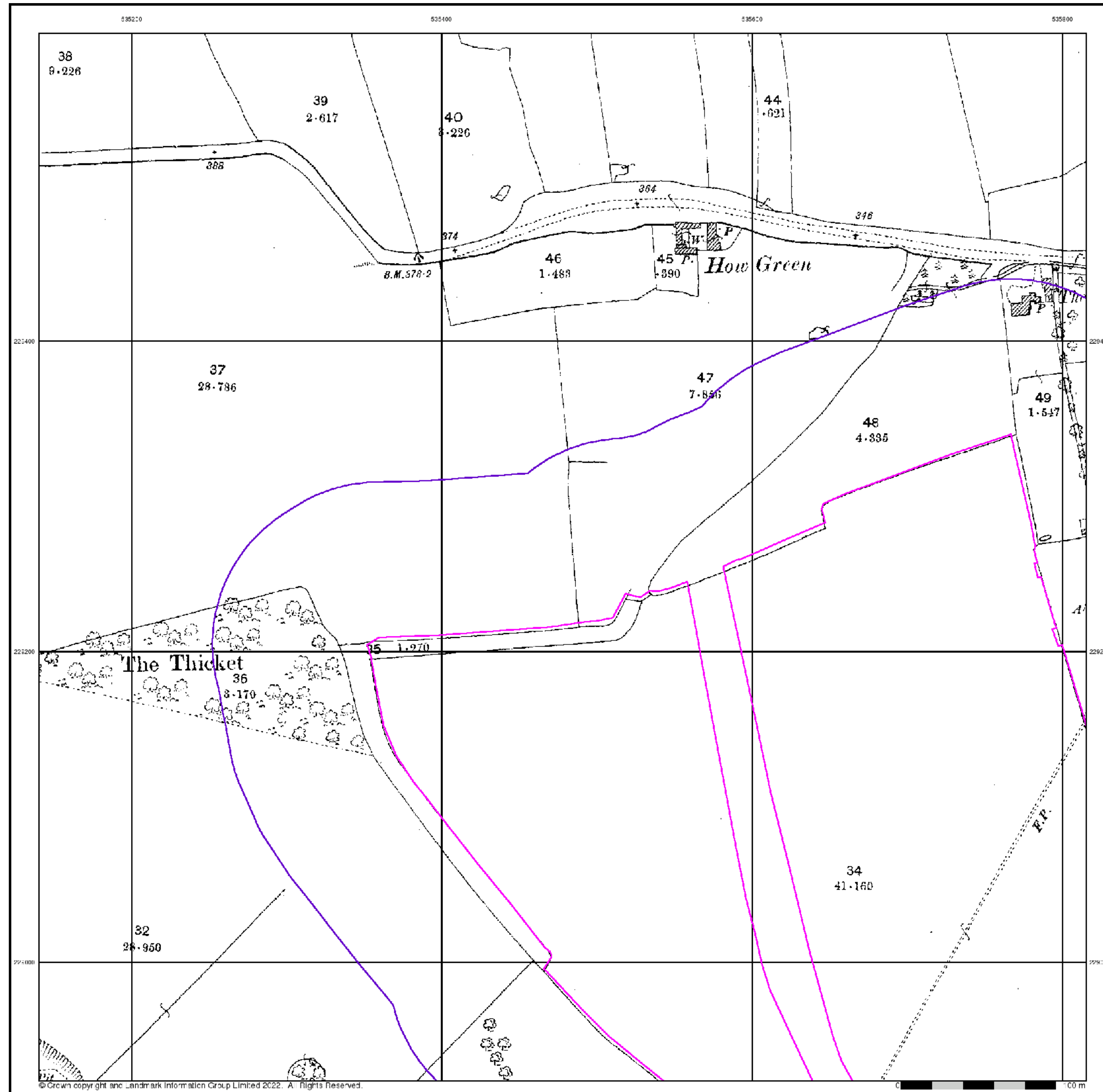
Order Number: 296189182_1_1
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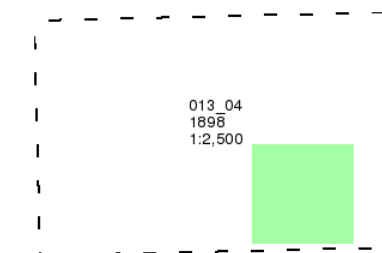
Hertfordshire

Published 1898

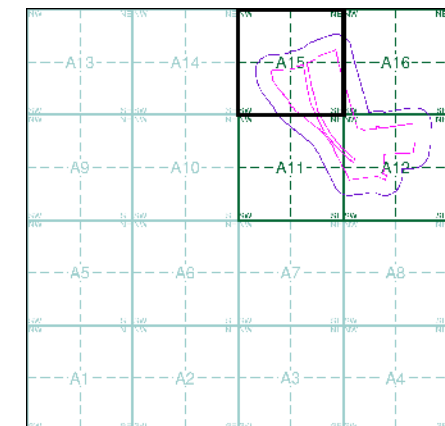
Source map scale - 1:2,500

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 A15



Order Details

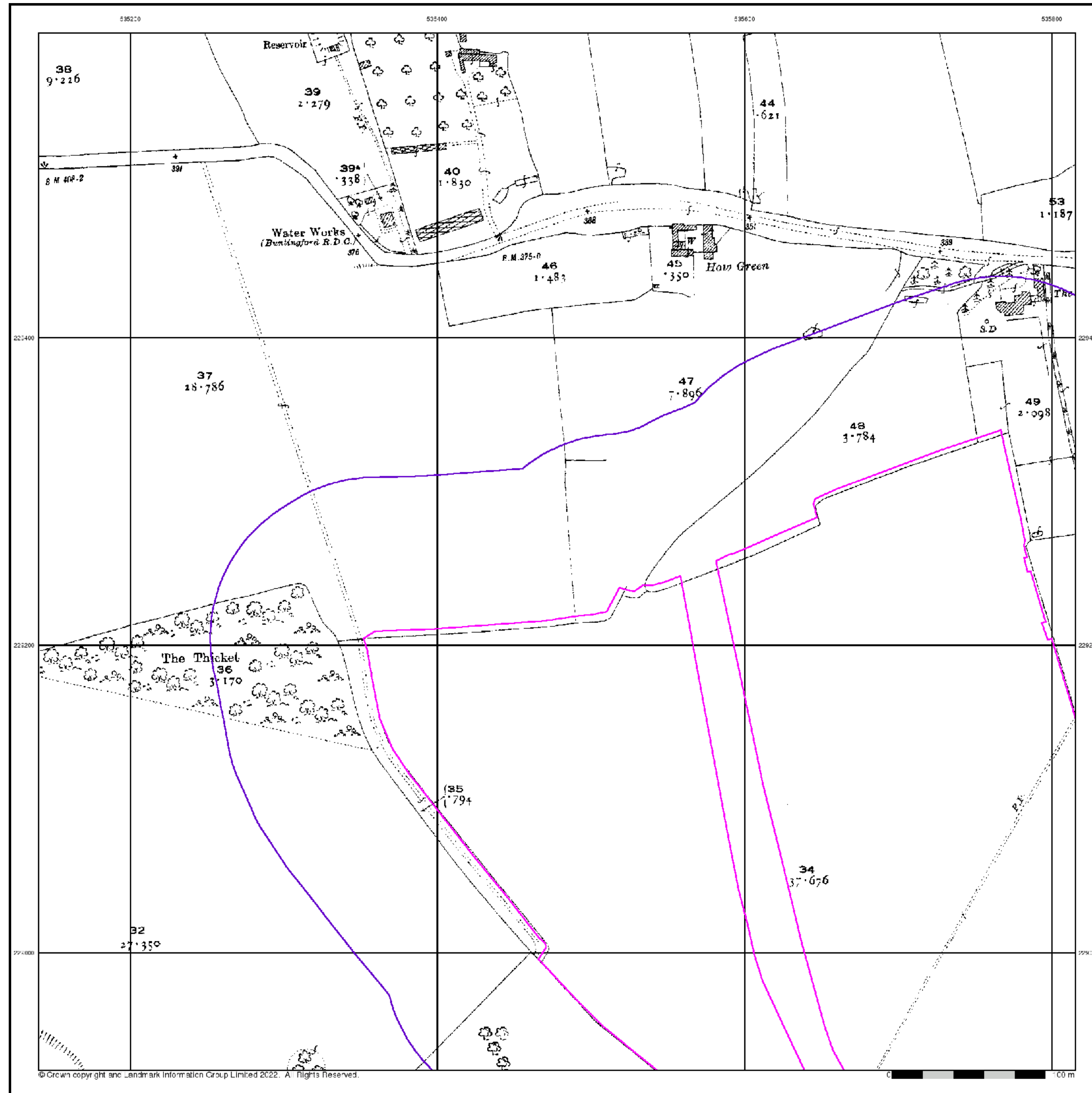
Order Number: 296189182_1_1
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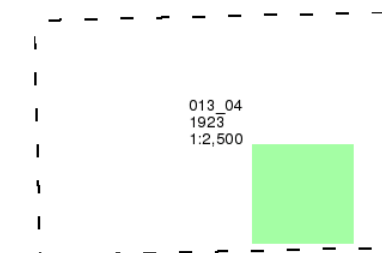
Hertfordshire

Published 1923

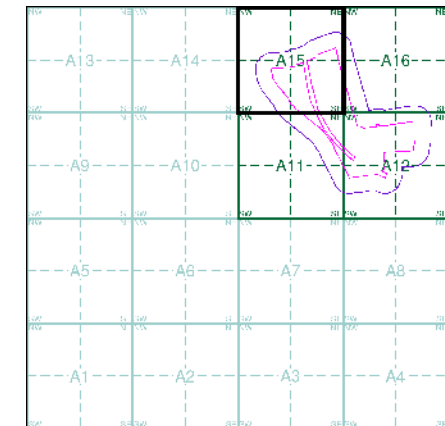
Source map scale - 1:2,500

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.

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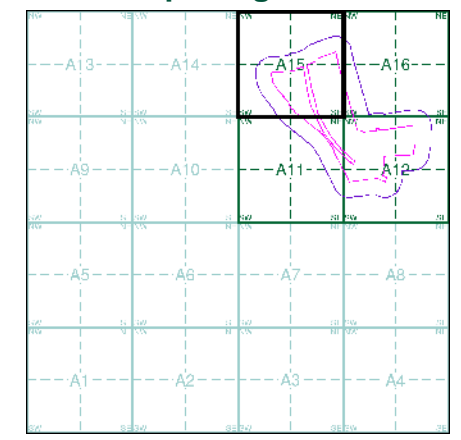
Ordnance Survey Plan
Published 1975
Source map scale - 1:2,500

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)

TL3529	1975	1:2,500
TL3528	1975	1:2,500

Historical Map - Segment A15



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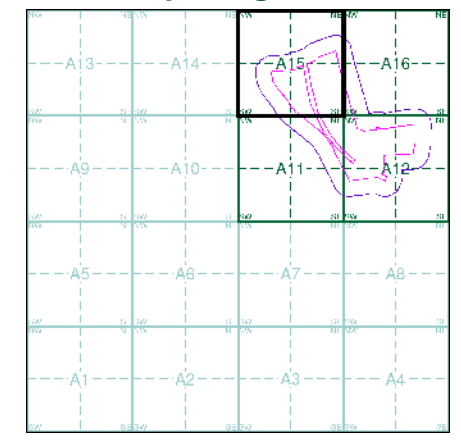
Additional SIMs
Published 1985 - 1987
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TL3529	1985	1:2,500
TL3528	1987	1:2,500

Historical Map - Segment A15



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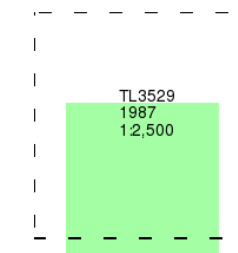
Additional SIMs

Published 1987

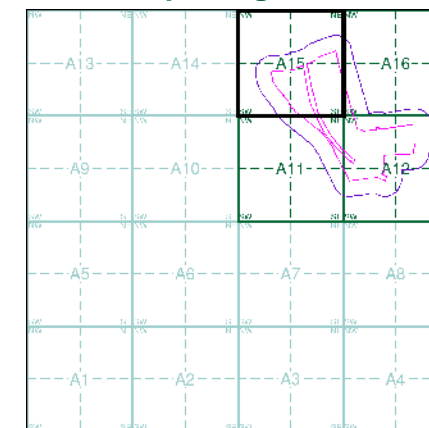
Source map scale - 1:2,500

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Map Name(s) and Date(s)



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Large-Scale National Grid Data

Published 1993

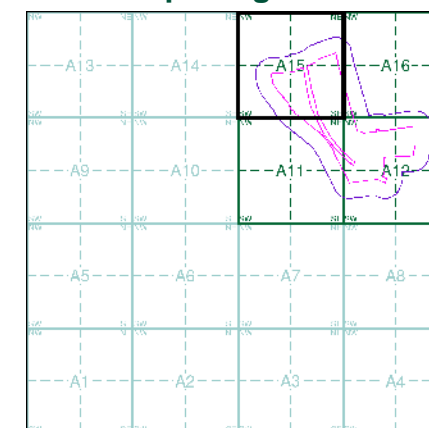
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TL3529	1993	1:2,500
TL3528	1993	1:2,500

Historical Map - Segment A15



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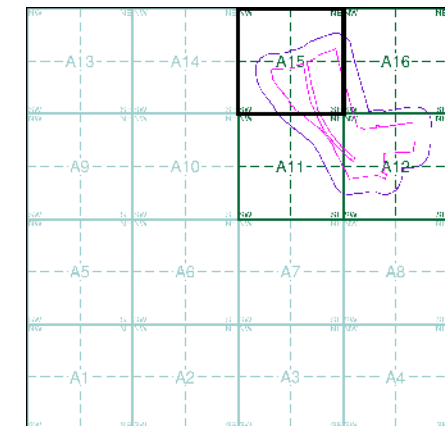
Large-Scale National Grid Data
Published 1994 - 1995
Source map scale - 1:2,500

'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)

TL3529	1995	1:2,500
TL3528	1994	1:2,500

Historical Map - Segment A15



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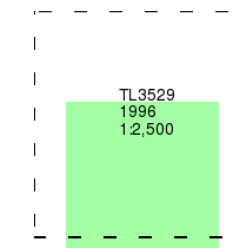
Large-Scale National Grid Data

Published 1996

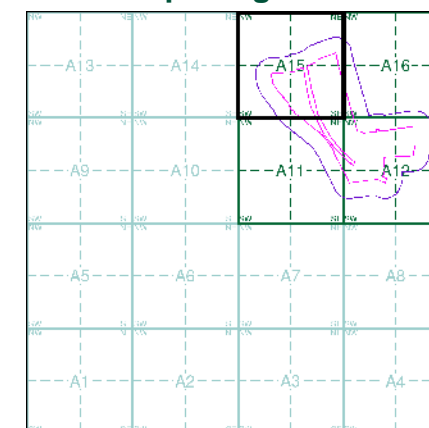
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

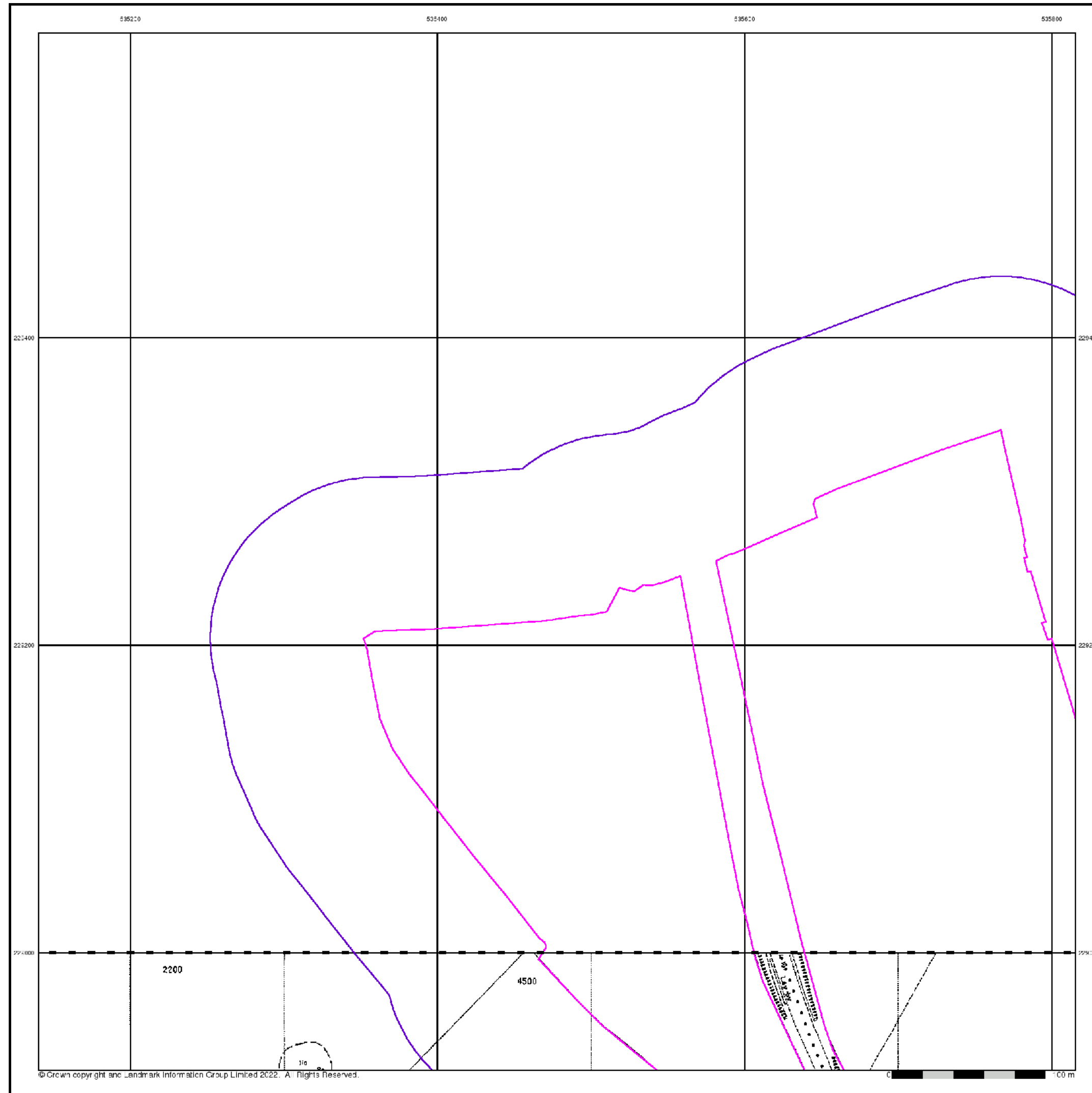
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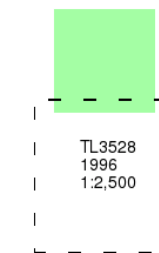
Large-Scale National Grid Data

Published 1996

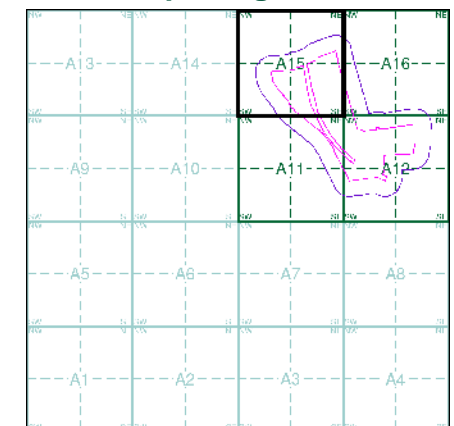
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535200

535400

535600

535800



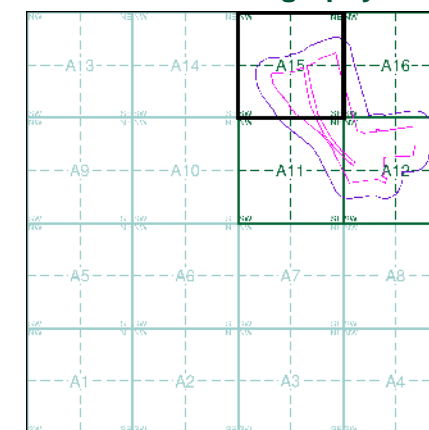
Historical Aerial Photography

Published 2000

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



Historical Aerial Photography - Segment A15



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Historical Mapping Legends

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

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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**
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Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
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County & Civil Parish Boundary
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County Borough Boundary (England)
County Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **Pump**
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F.B. Foot Bridge **Sl. Sluice**
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Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

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Sloping Masonry **Archway**
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Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P Pillar, Pole or Post**
BP, BS Boundary Post or Stone **PO Post Office**
Cn, C Capstan, Crane **PC Public Convenience**
Chy Chimney **PH Public House**
D Fn Drinking Fountain **Pp Pump**
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FB Foot Bridge **Spr Spring**
GP Guide Post **Tk Tank or Track**
H Hydrant or Hydraulic **TCB Telephone Call Box**
LC Level Crossing **TCP Telephone Call Post**
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MP Mile Post or Mooring Post **Wr Pt, Wr T Water Point, Water Tap**
MS Mile Stone **W Well**
NTL Normal Tidal Limit **Wd Pp Wind Pump**

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

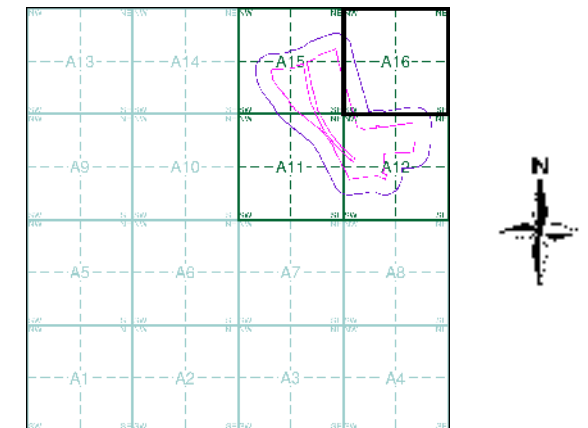
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
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Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed 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)
Bks Barracks **P Pillar, Pole or Post**
Bty Battery **PO Post Office**
Cemy Cemetery **PC Public Convenience**
Chy Chimney **Pp Pump**
Cis Cistern **Ppg Sta Pumping Station**
Dismtd Rly Dismantled Railway **PW Place of Worship**
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta Sewage Pumping Station**
EI P Electricity Pole, Pillar **SB, S Br Signal Box or Bridge**
EI Sub Sta Electricity Sub Station **SP, SL Signal Post or Light**
FB Filter Bed **Spr Spring**
Fn / D Fn Fountain / Drinking Ftn. **Tk Tank or Track**
Gas Gov Gas Valve Compound **Tr Trough**
GVC Gas Governor **Wd Pp Wind Pump**
GP Guide Post **Wr Pt, Wr T Water Point, Water Tap**
MH Manhole **Wks Works (building or area)**
MP, MS Mile Post or Mile Stone **W Well**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:2,500	1878	2
Hertfordshire	1:2,500	1897 - 1898	3
Hertfordshire	1:2,500	1921 - 1923	4
Ordnance Survey Plan	1:2,500	1975	5
Additional SIMs	1:2,500	1984 - 1987	6
Additional SIMs	1:2,500	1987 - 1988	7
Additional SIMs	1:2,500	1992	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1994 - 1995	10
Large-Scale National Grid Data	1:2,500	1995	11
Large-Scale National Grid Data	1:2,500	1996	12
Large-Scale National Grid Data	1:2,500	1996	13
Historical Aerial Photography	1:2,500	2000	14

Historical Map - Segment A16



Order Details

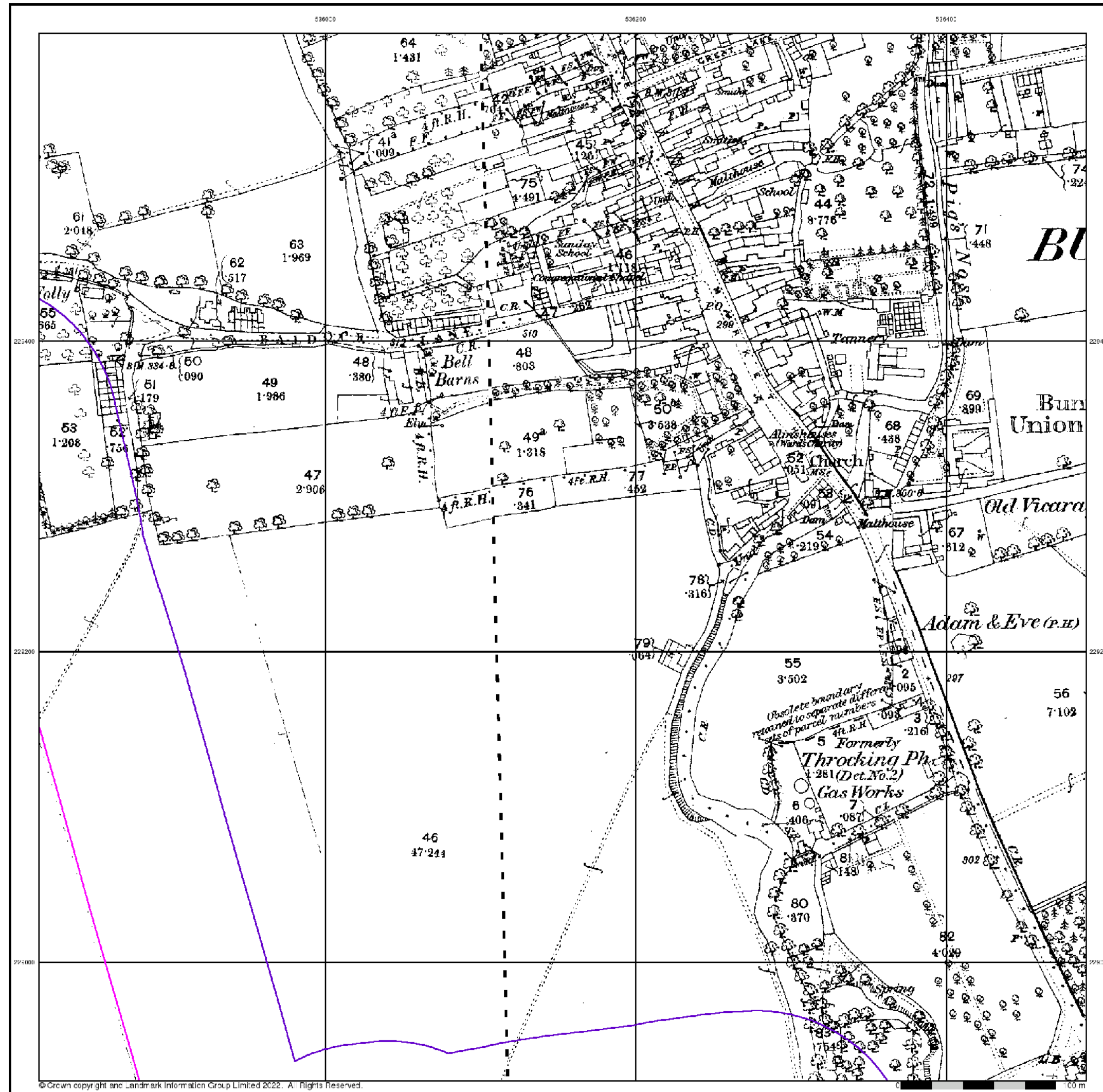
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 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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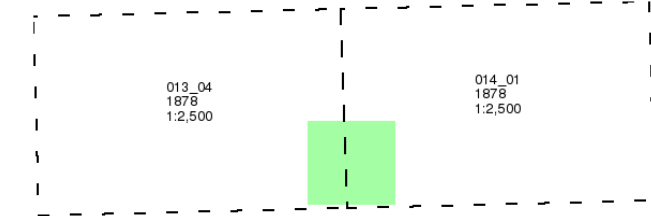
Hertfordshire

Published 1878

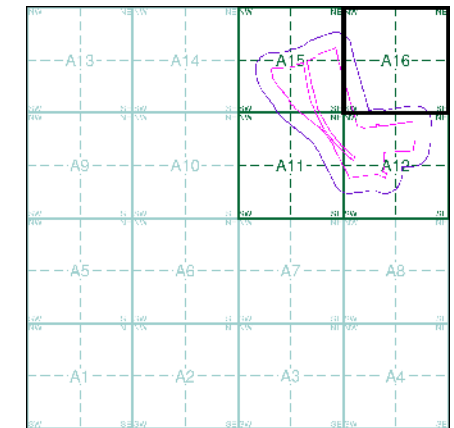
Source map scale - 1:2,500

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 A16



Order Details

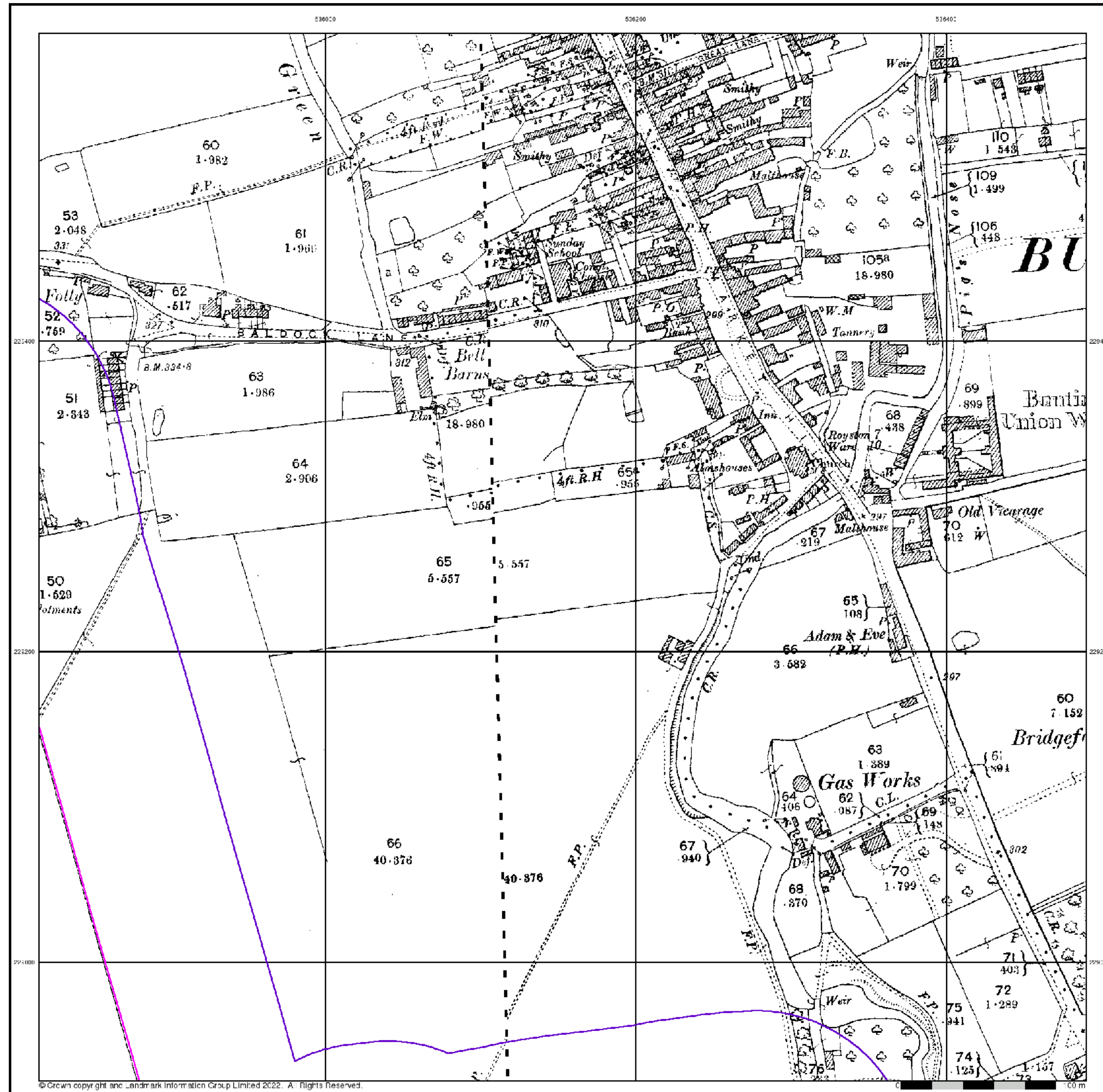
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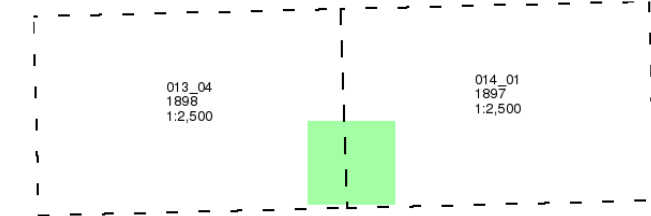
Hertfordshire

Published 1897 - 1898

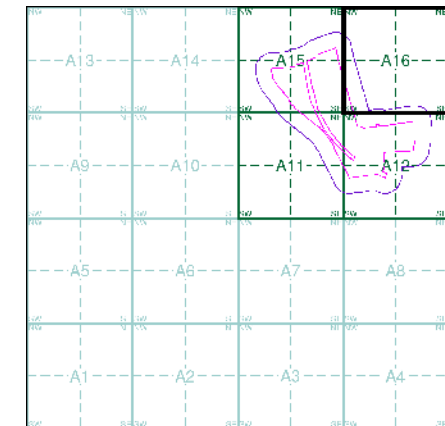
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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 A16



Order Details

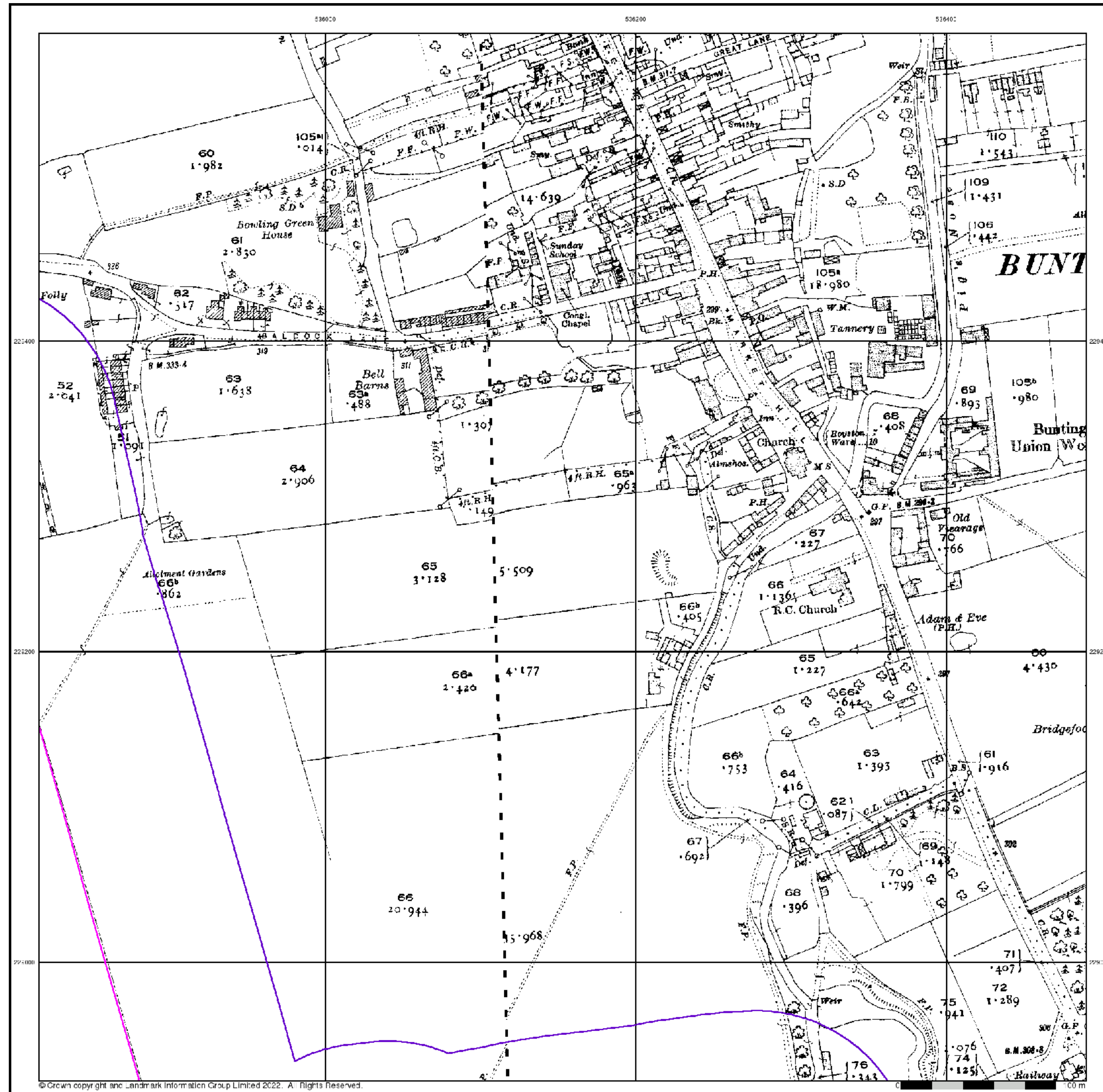
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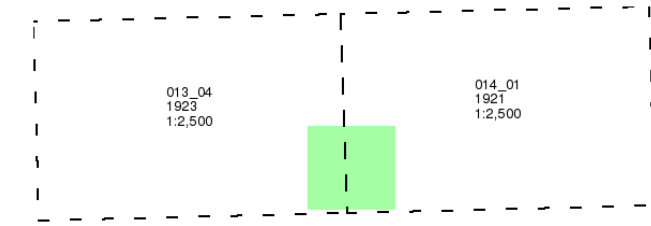
Hertfordshire

Published 1921 - 1923

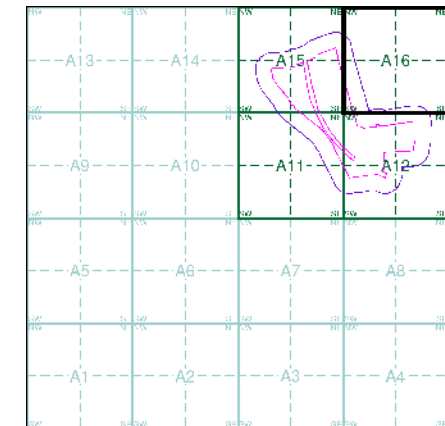
Source map scale - 1:2,500

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 A16



Order Details

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Ordnance Survey Plan

Published 1975

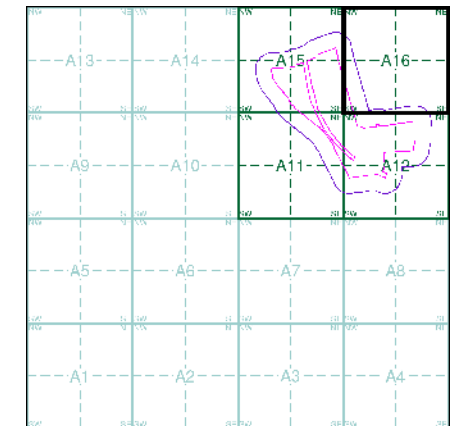
Source map scale - 1:2,500

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)

TL3529 1975 12,500	TL3629 1975 12,500
TL3528 1975 12,500	TL3628 1975 12,500

Historical Map - Segment A16



Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
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Additional SIMs

Published 1984 - 1987

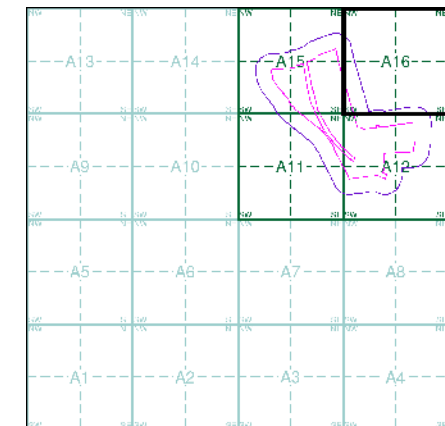
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TL3529 1985 12,500	TL3629 1984 12,500
TL3528 1987 12,500	TL3628 1984 12,500

Historical Map - Segment A16



Order Details

Order Number: 296189182_1_1
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 Slice: A
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536020

536200

536400



Additional SIMs

Published 1987 - 1988

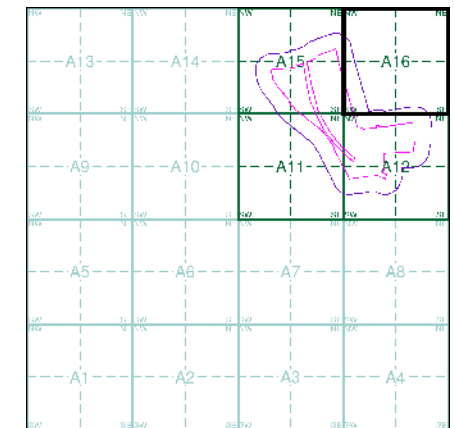
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TL3529 1987 12,500	TL3629 1988 12,500
	TL3628 1987 12,500

Historical Map - Segment A16



Order Details

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0004 1.91ha 4.80	0004 2.492ha 6.16	0004 4.549ha 11.24
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2900
786ha
1.04

536000

536200

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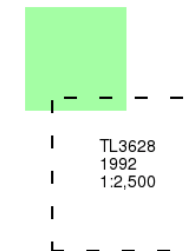
Additional SIMs

Published 1992

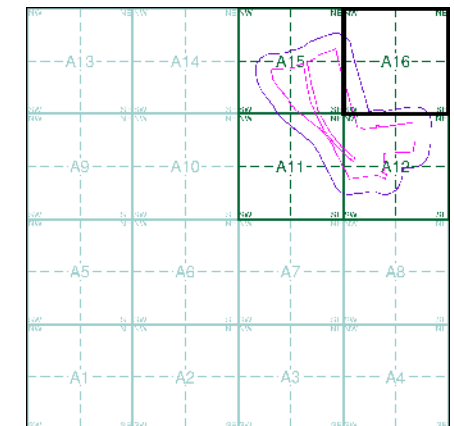
Source map scale - 1:2,500

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 A16



Order Details

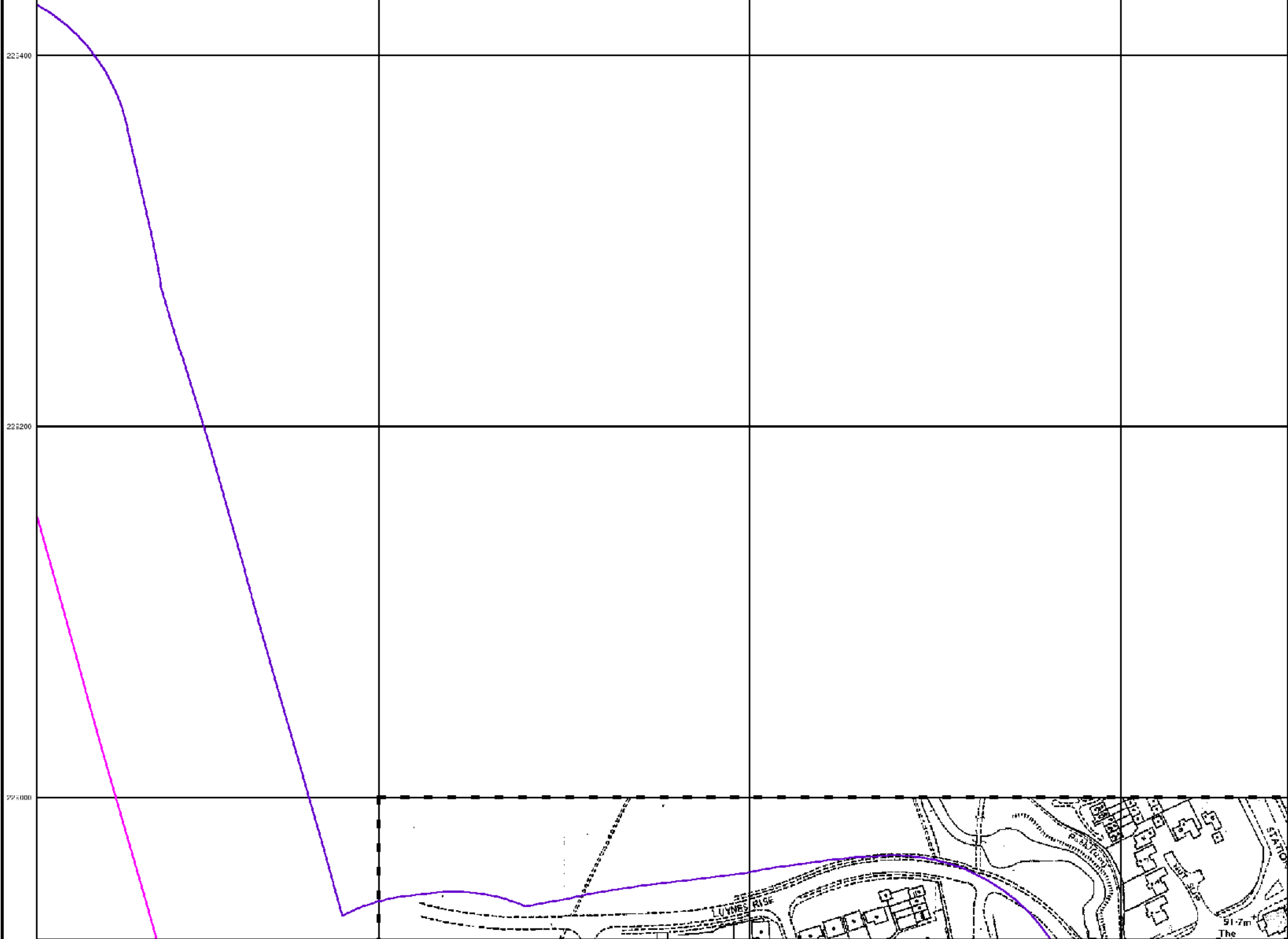
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

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Large-Scale National Grid Data

Published 1993

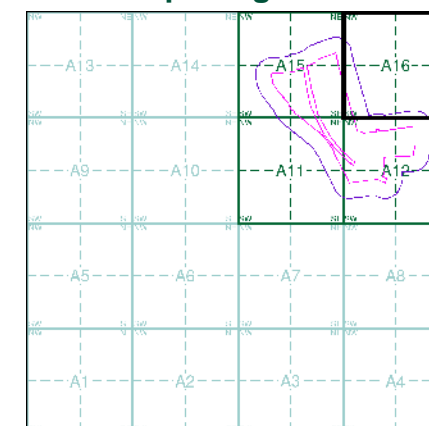
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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)

TL3529 1993 1:2,500	TL3629 1993 1:2,500
TL3528 1993 1:2,500	TL3628 1993 1:2,500

Historical Map - Segment A16



Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1994 - 1995

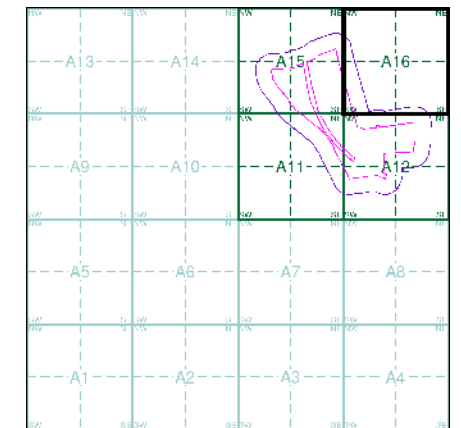
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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)

TL3529	1995	1:2,500
TL3528	1994	1:2,500

Historical Map - Segment A16



Order Details

Order Number: 296189182_1_1
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 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
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Site Details

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536020

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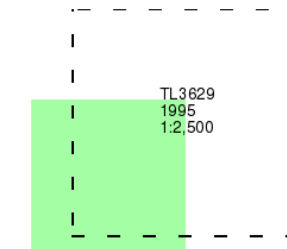
Large-Scale National Grid Data

Published 1995

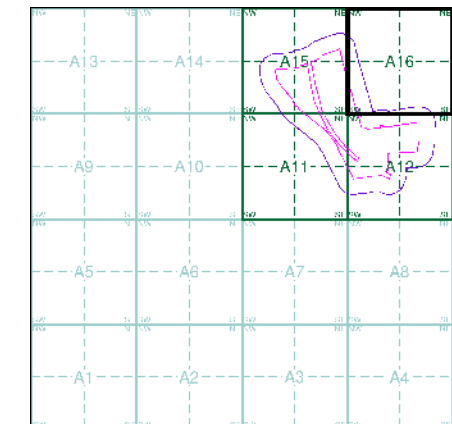
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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 A16



Order Details

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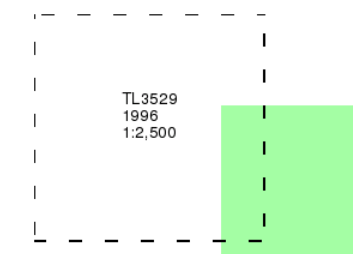
Large-Scale National Grid Data

Published 1996

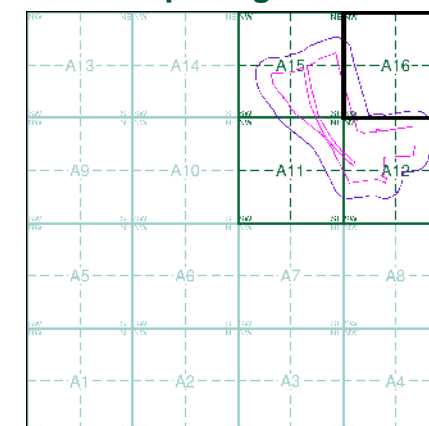
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Map Name(s) and Date(s)



Historical Map - Segment A16



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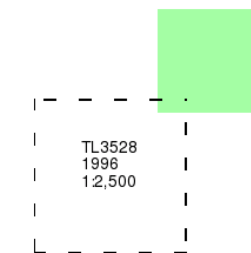
Large-Scale National Grid Data

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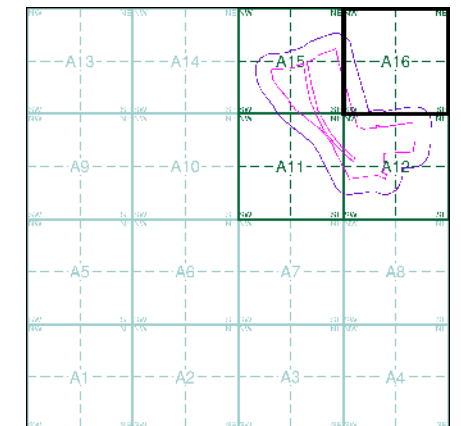
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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 A16



Order Details

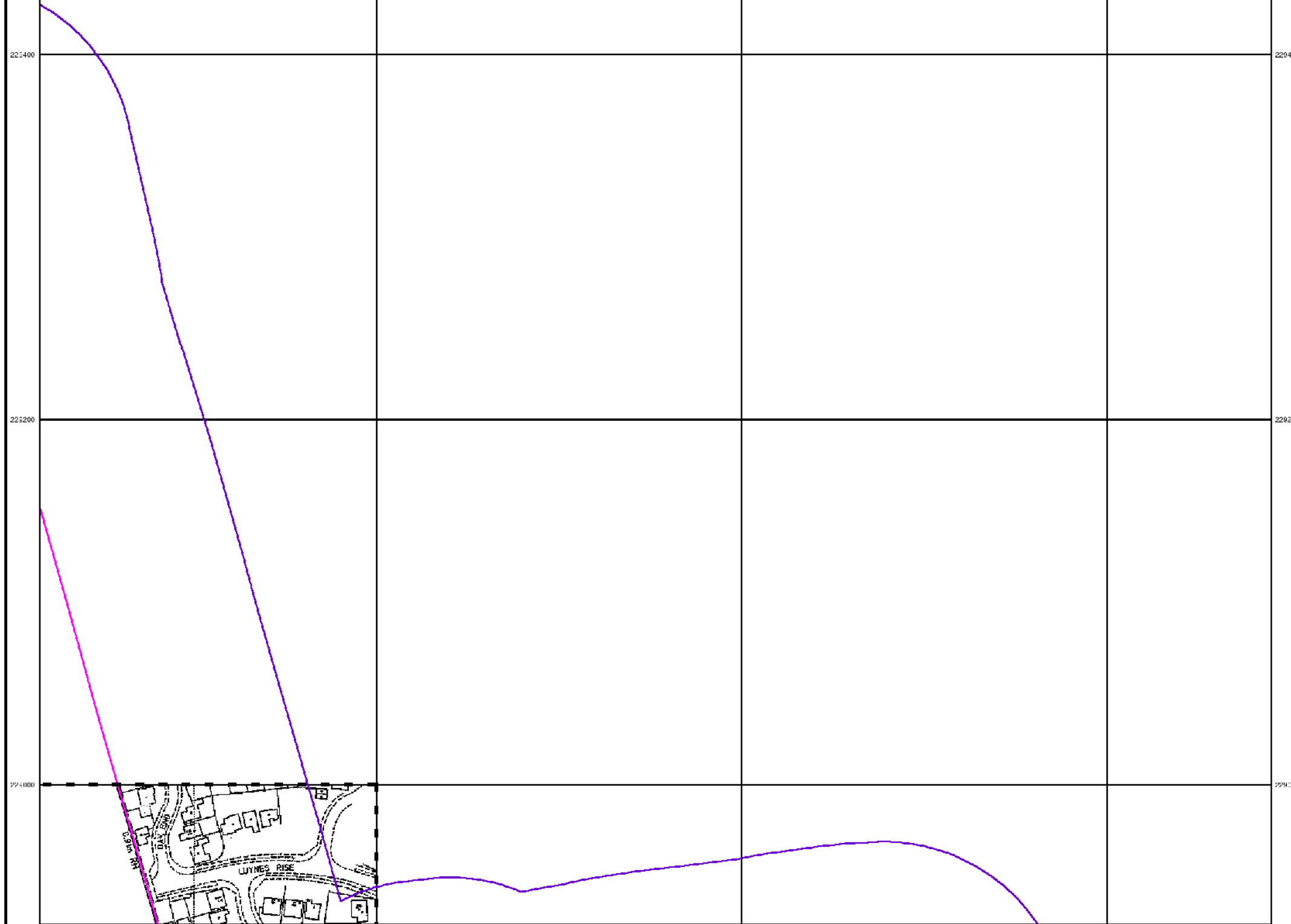
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536000

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Historical Aerial Photography

Published 2000

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



229400

229400

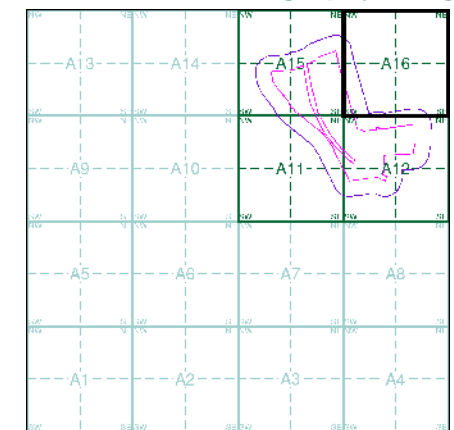
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Historical Aerial Photography - Segment A16



Order Details

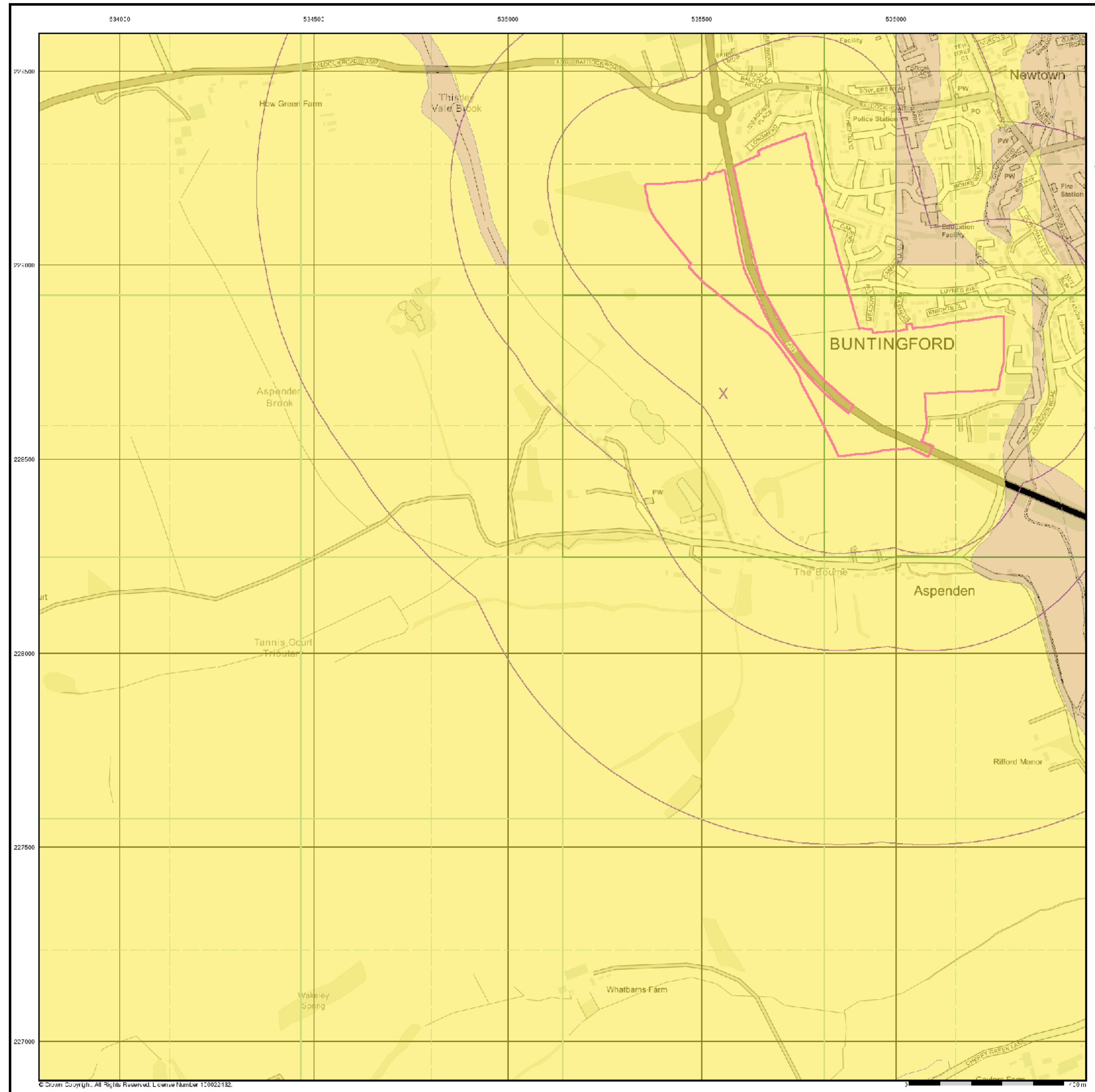
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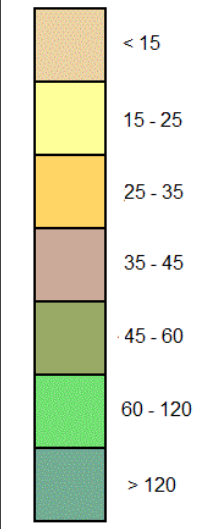


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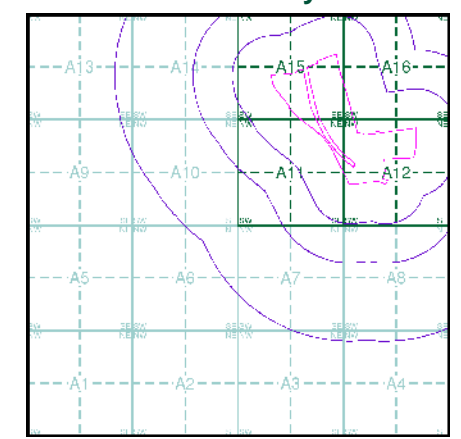
- ▭ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

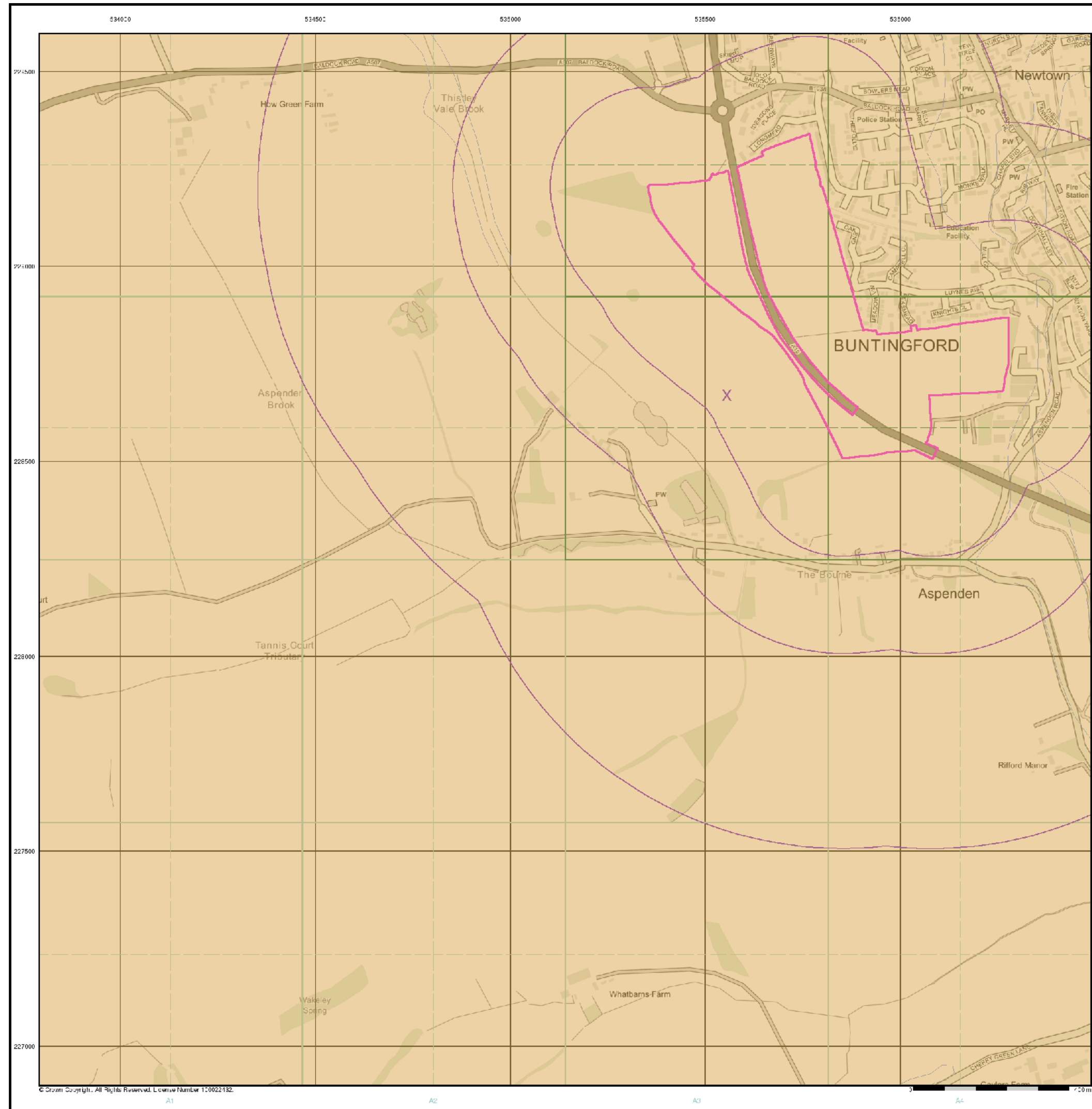
Order Details: 296189182_1_1
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 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

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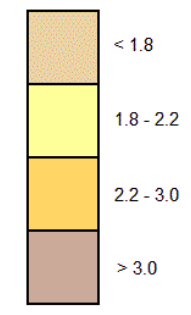


General

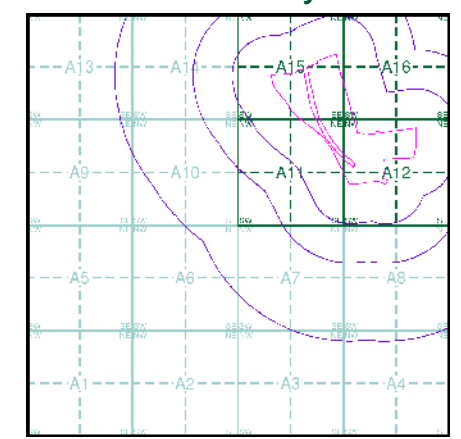
- ▭ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

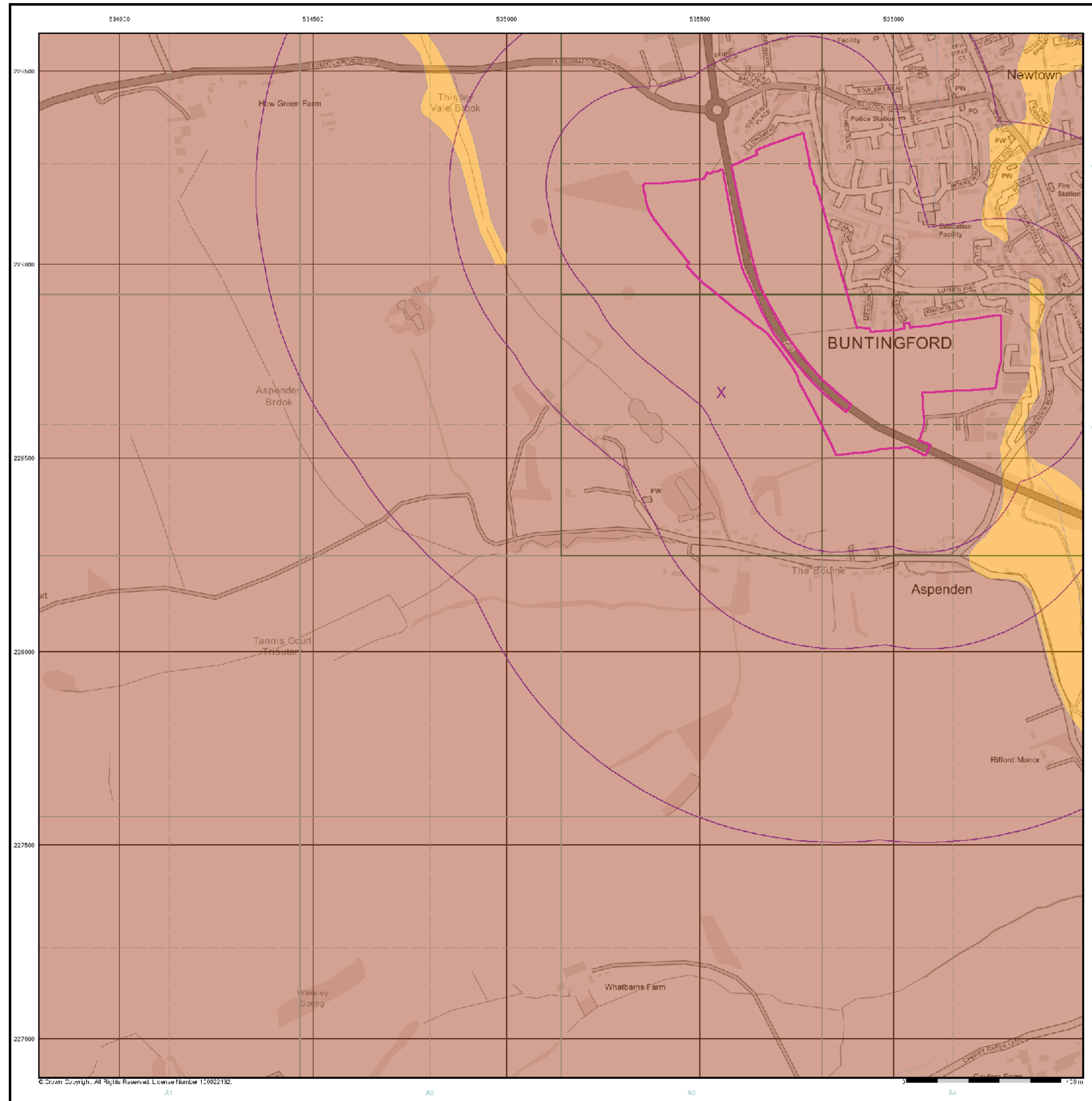
Order Details: 296189182_1_1
 Customer Ref: 70088938-L01
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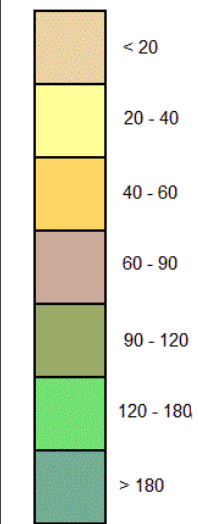


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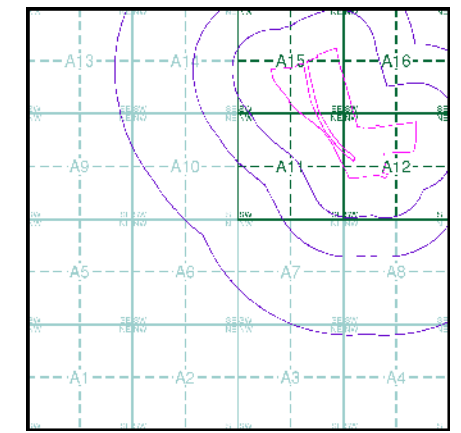
- ▭ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

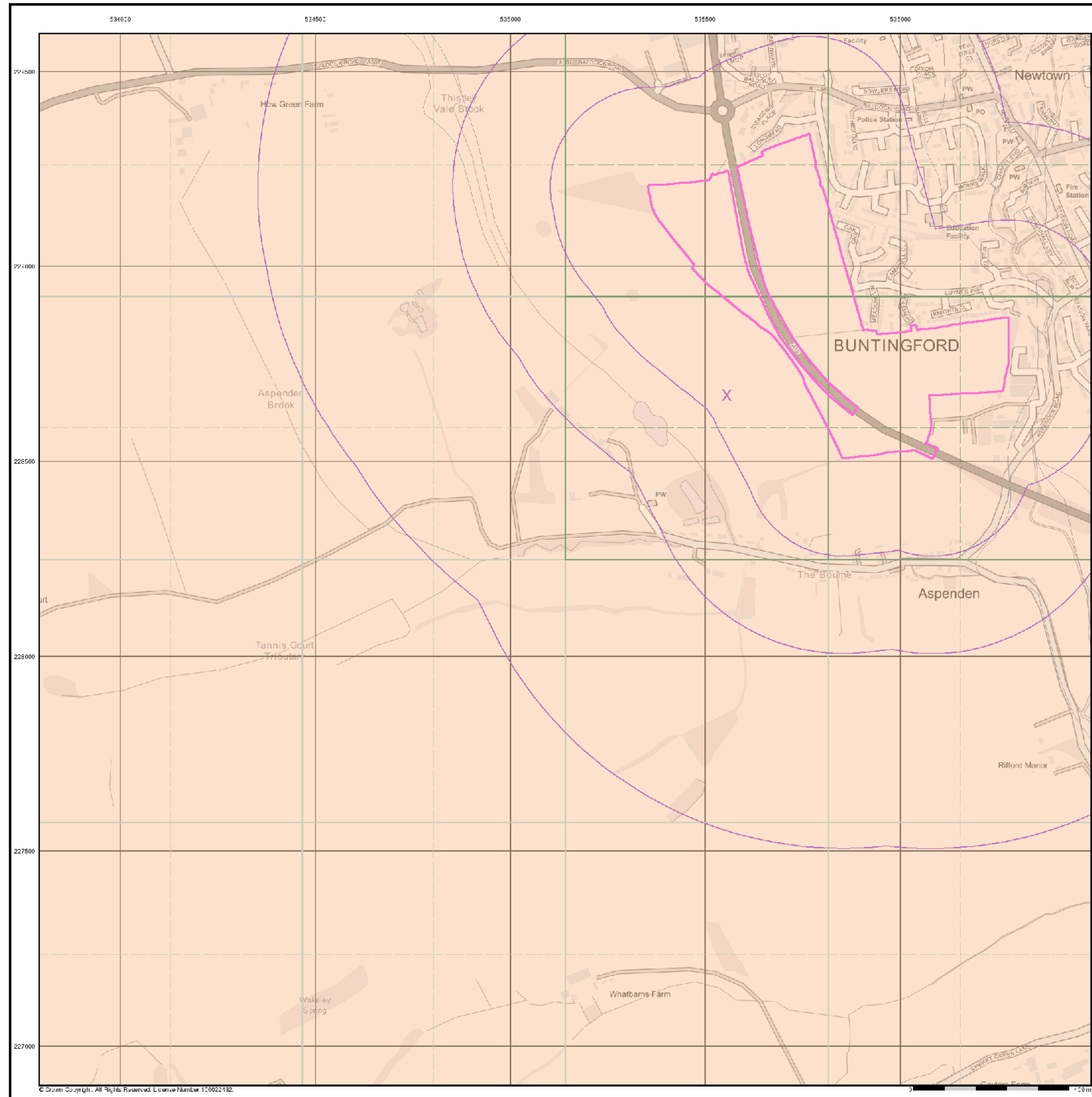
Order Details: 296189182_1_1
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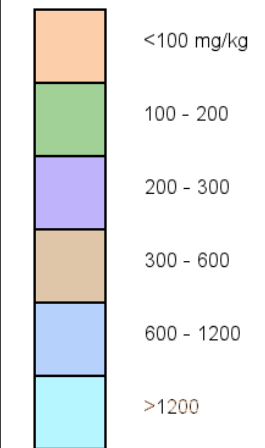


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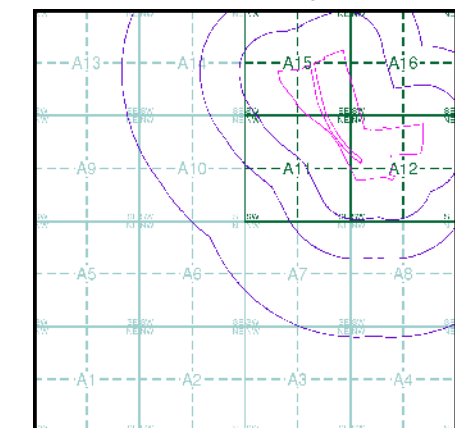
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- X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

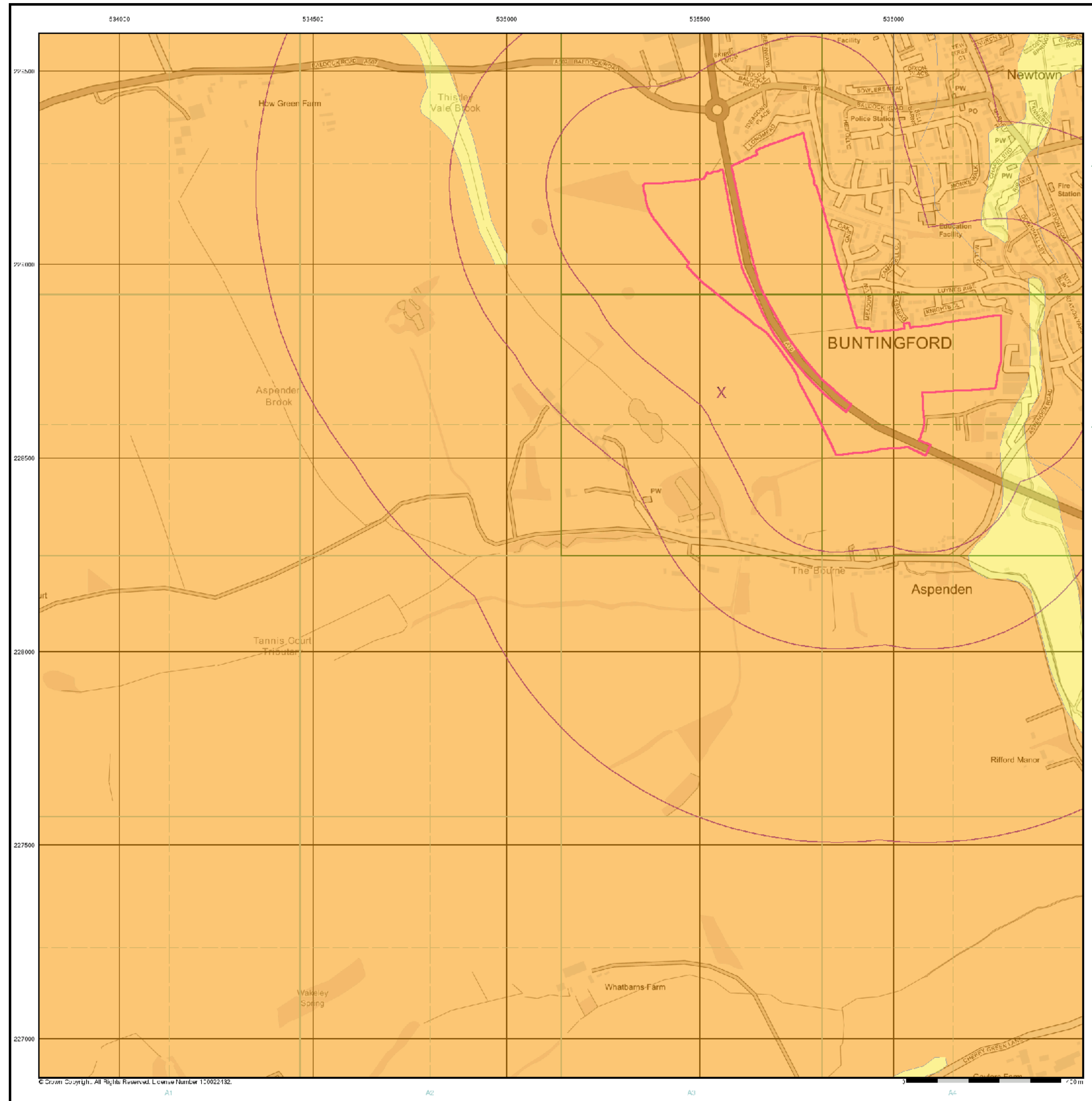
Order Details: 296189182_1_1
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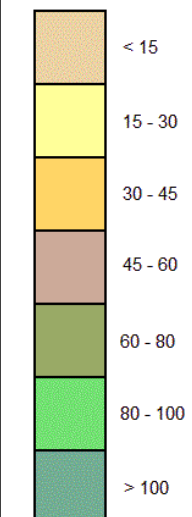


General

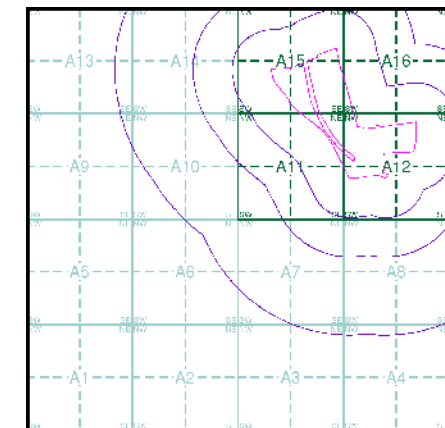
- ▬ Specified Site
- ▬ Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

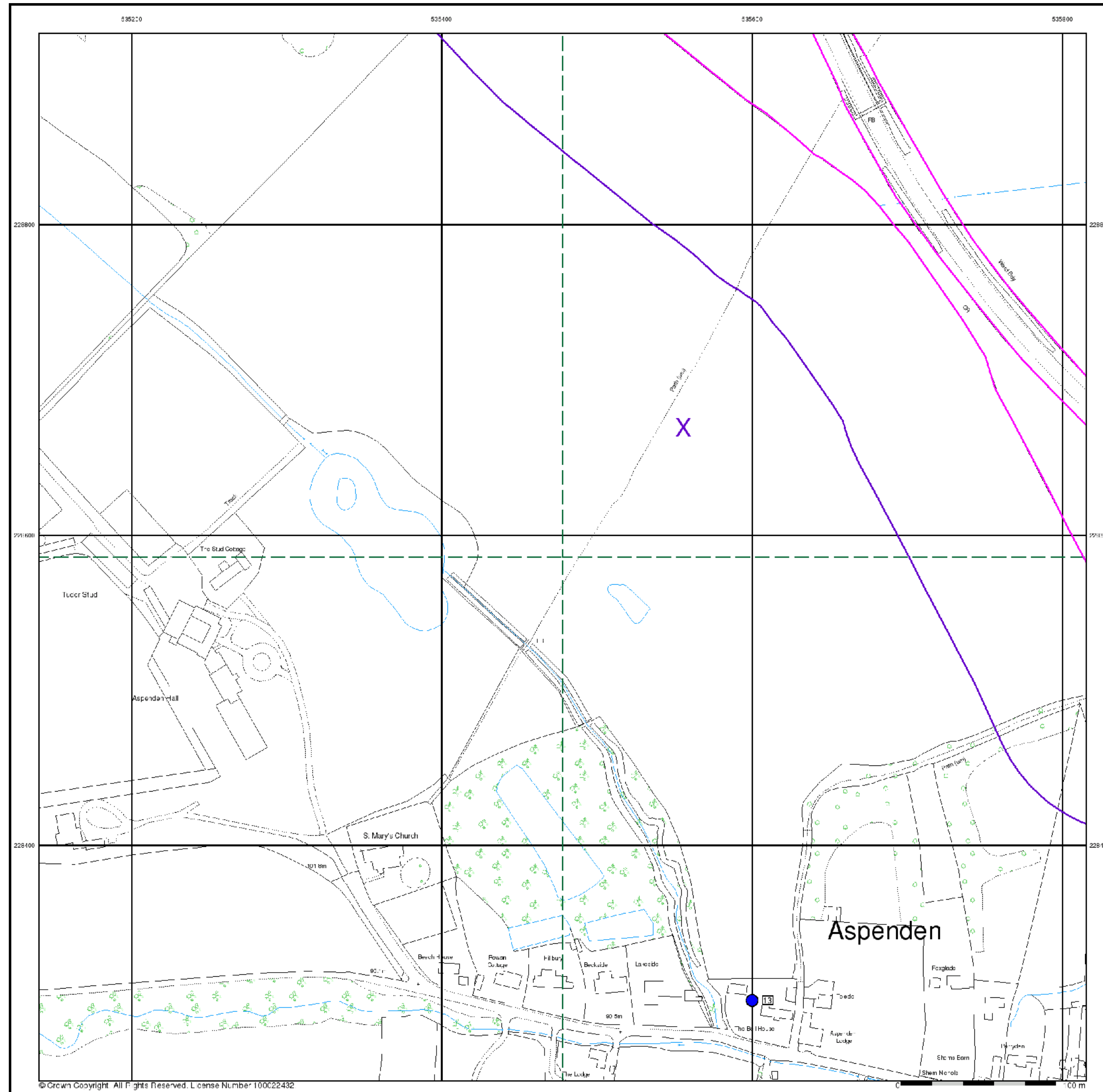
Order Details: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG

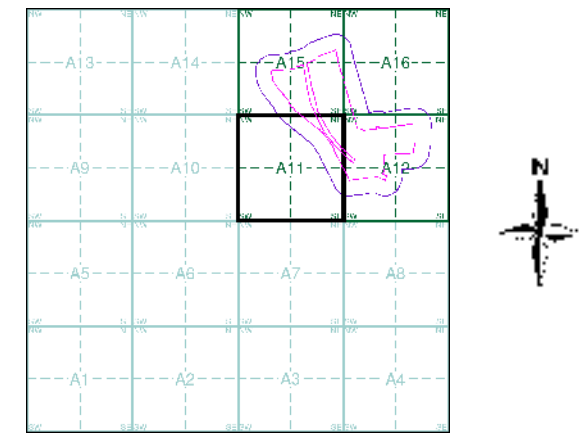


Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - 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 A11

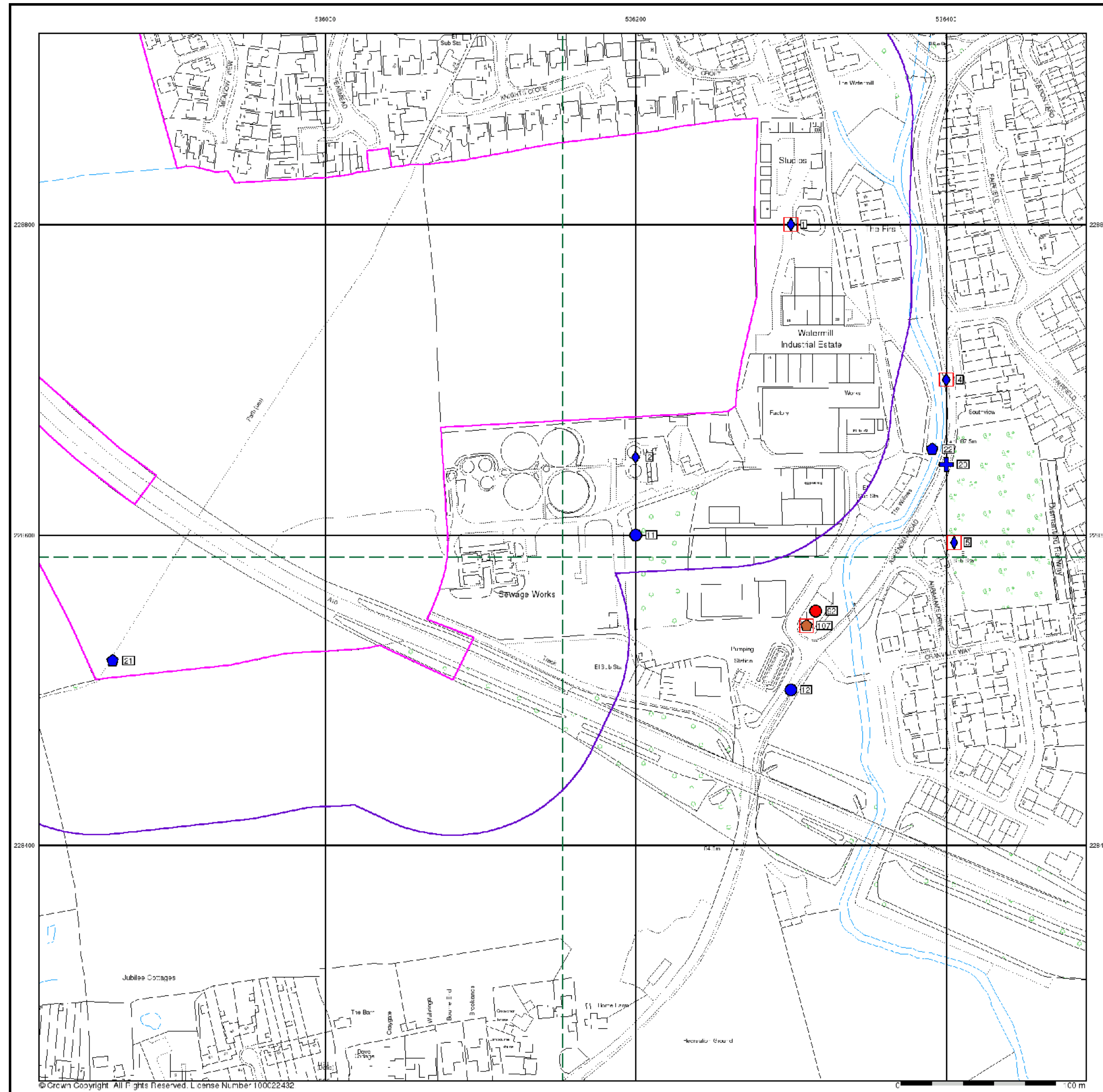


Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Plot Buffer (m): 100

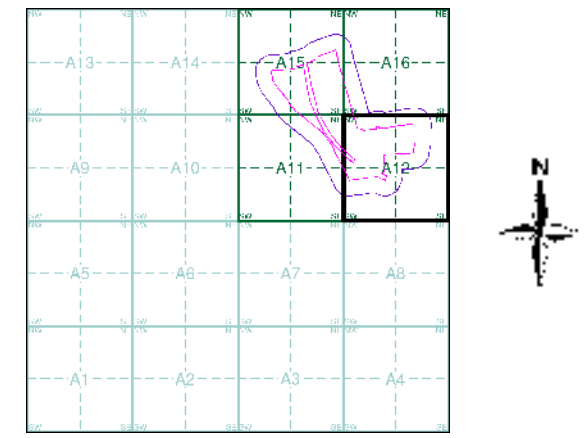
Site Details
 Land west of Buntingford, BUNTINGFORD, SG9 9FG

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



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
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 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
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 - 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 (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 A12



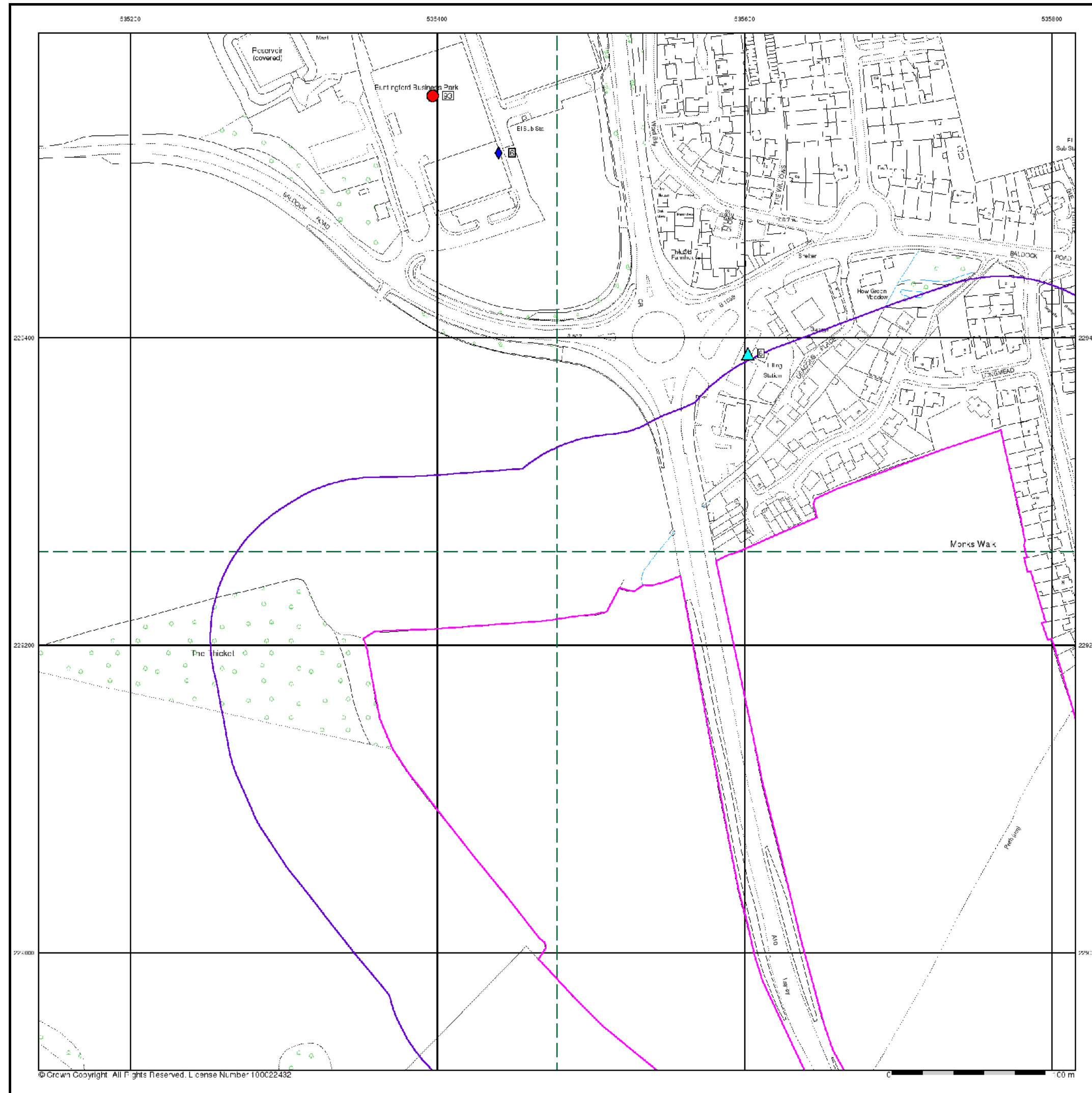
Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Plot Buffer (m): 100

Site Details
 Land west of Buntingford, BUNTINGFORD, SG9 9FG

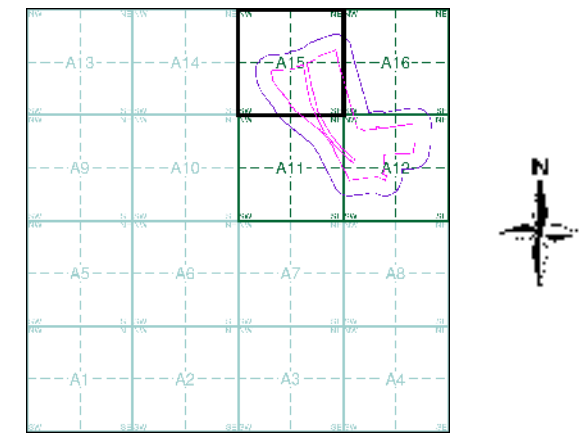
Landmark
 INFORMATION GROUP

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



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
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 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
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 - Licensed Waste Management Facility (Landfill Boundary)
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 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
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 - 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 A15



Order Details

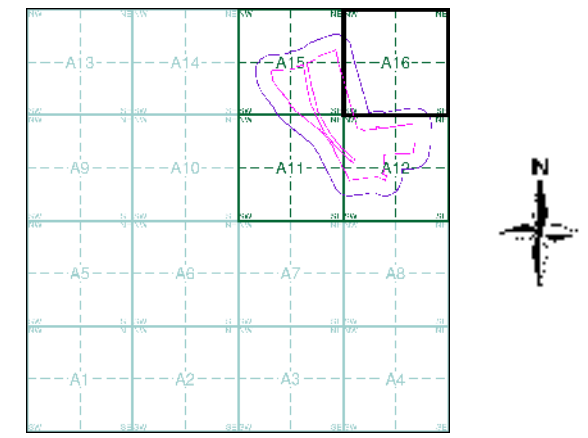
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Plot Buffer (m): 100

Site Details
 Land west of Buntingford, BUNTINGFORD, SG9 9FG



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
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 - Local Authority Pollution Prevention and Control Enforcement
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 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
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 - Potentially Infilled Land (Water)
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 - 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 A16



Order Details

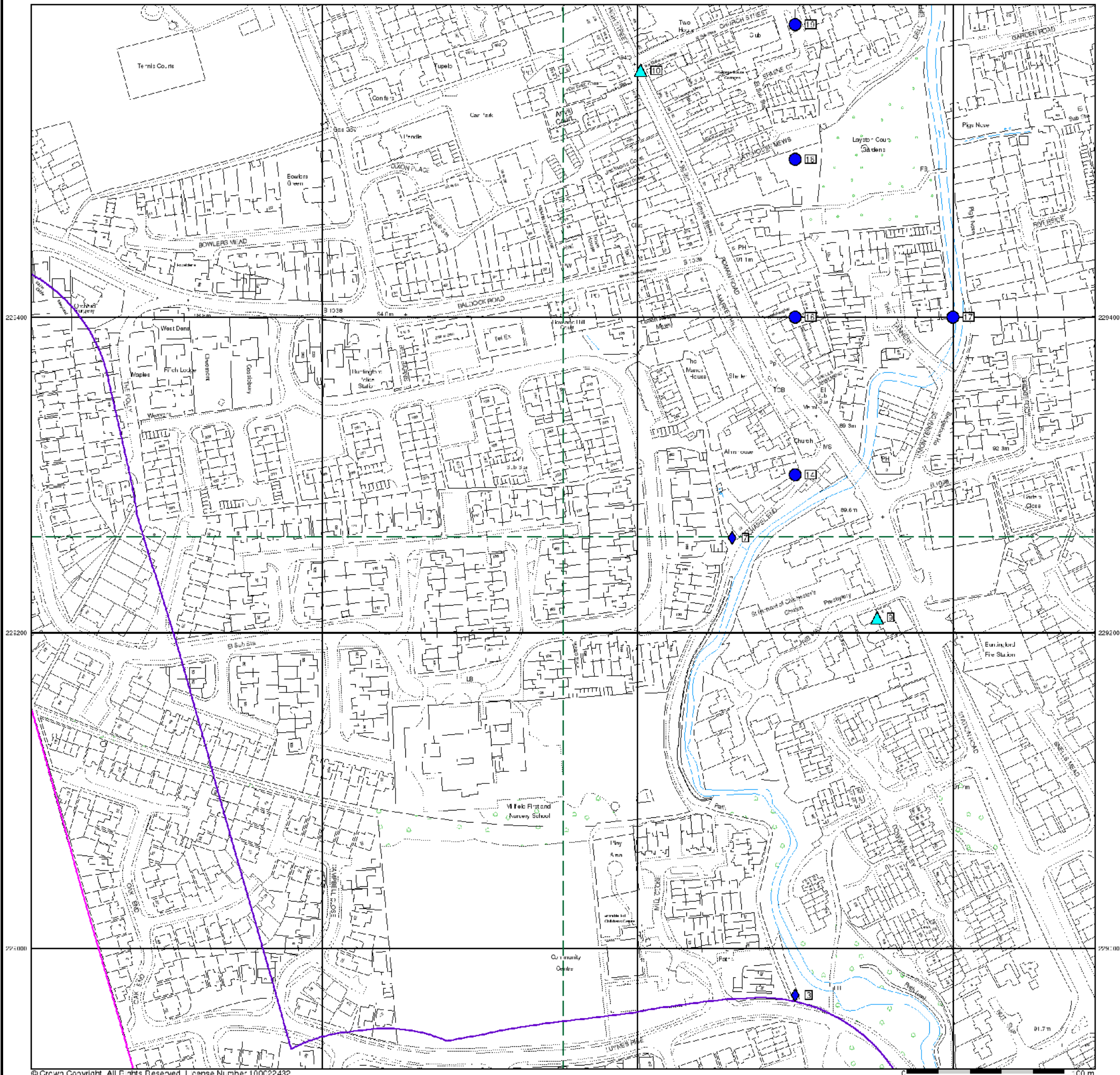
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 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Plot Buffer (m): 100

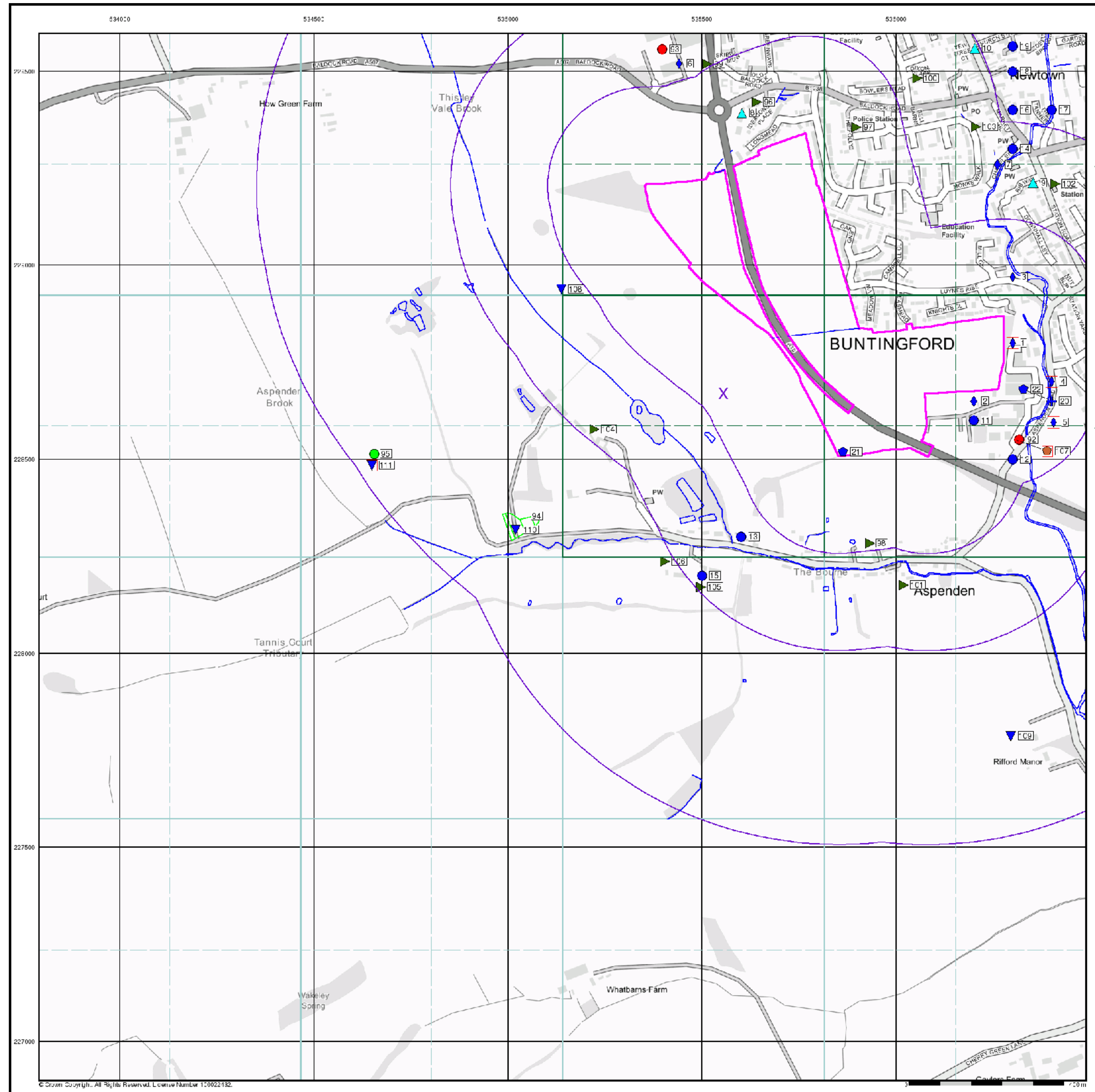
Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG

Landmark
 INFORMATION GROUP

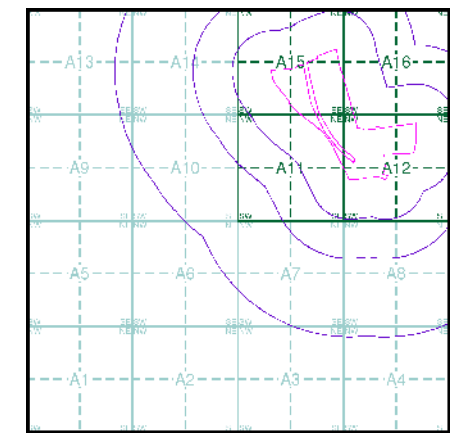
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk





- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
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 - 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
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



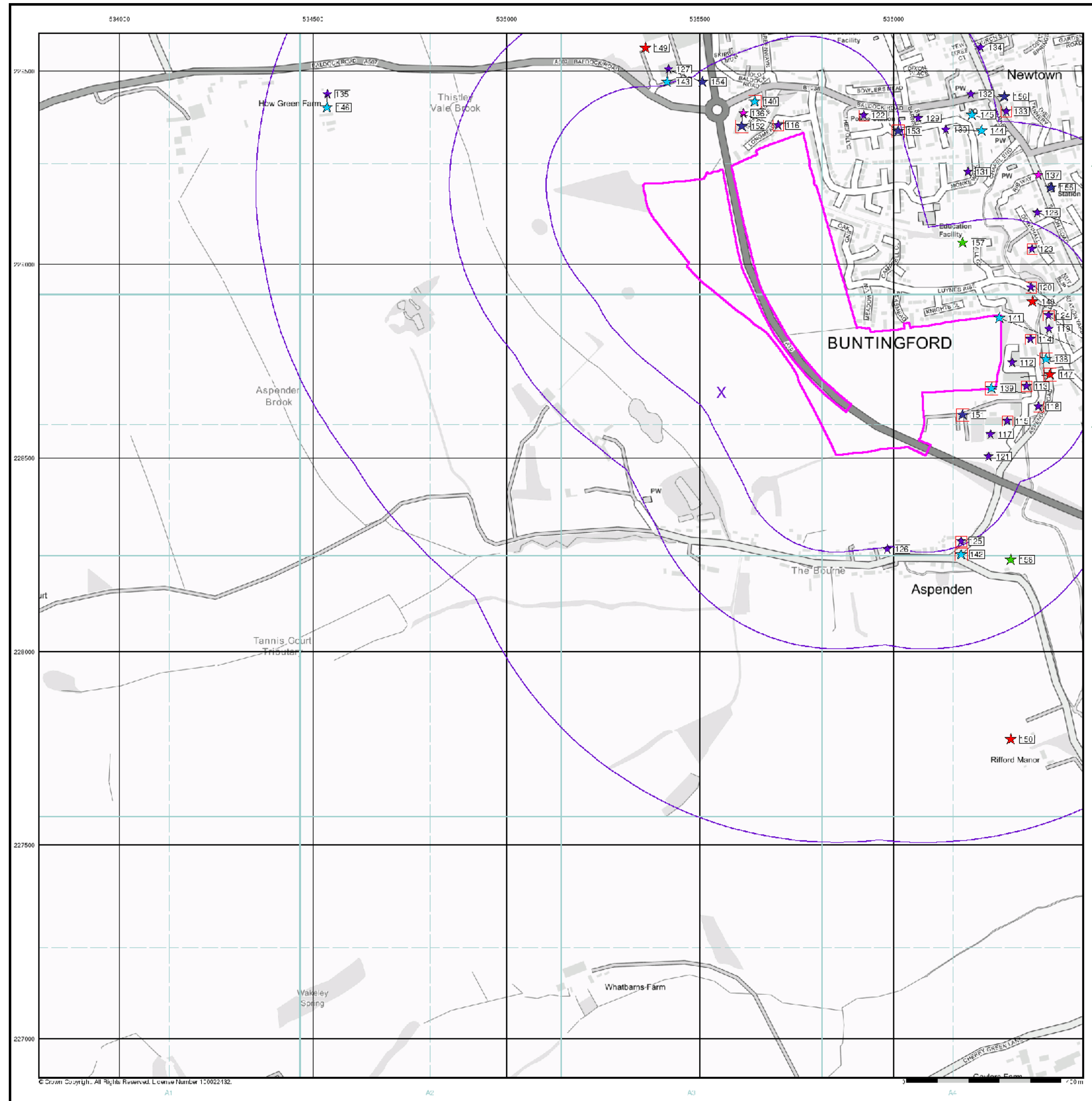
Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details
 Land west of Buntingford, BUNTINGFORD, SG9 9FG



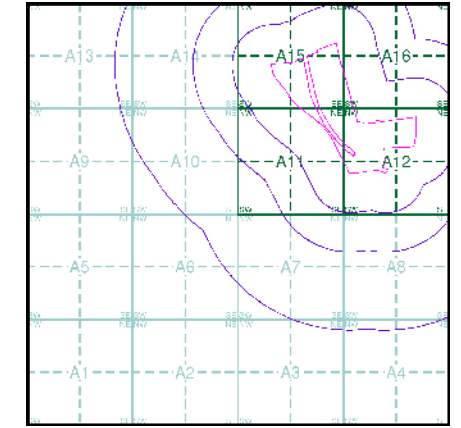
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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

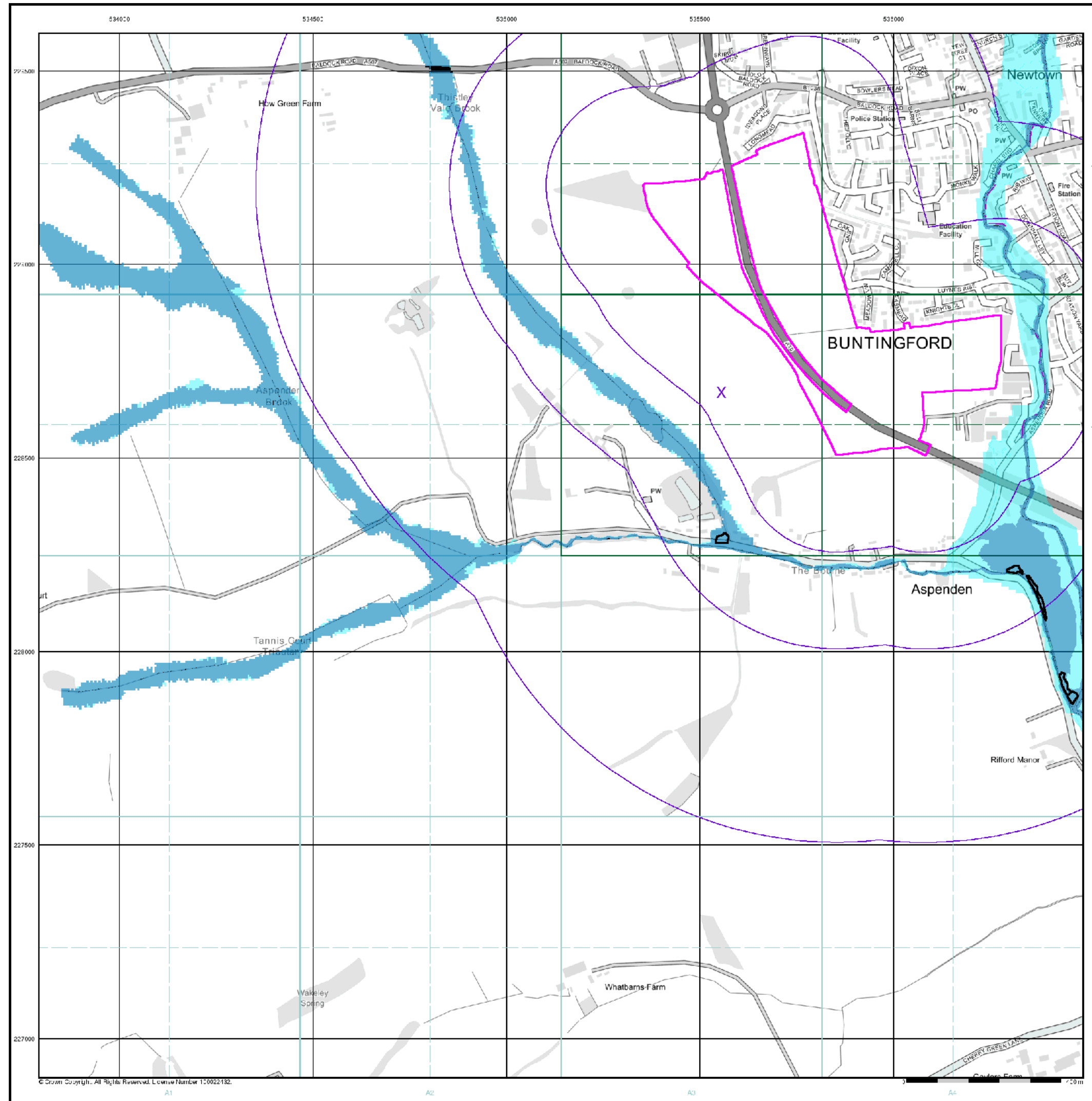
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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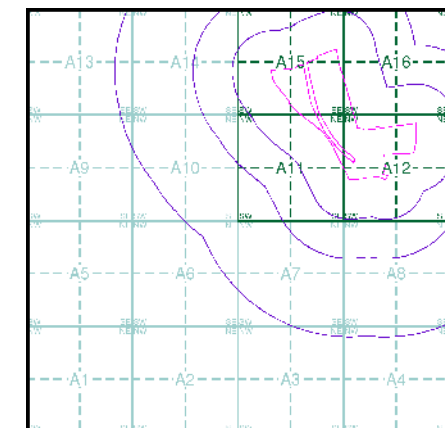
General

- 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

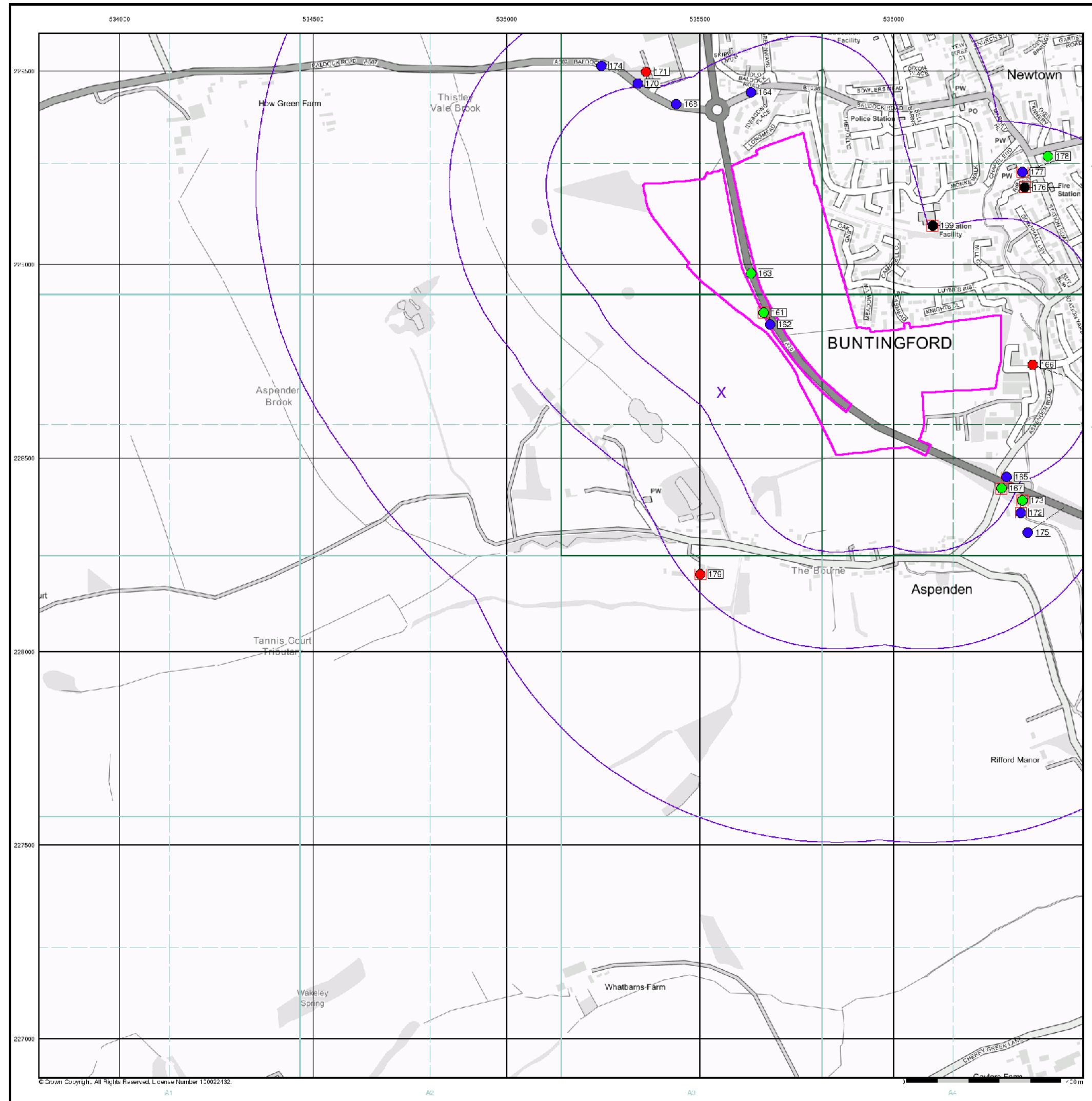
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



General

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

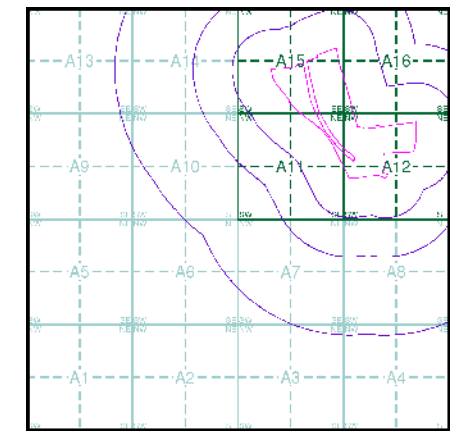
Agency and Hydrological (Boreholes)

- 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

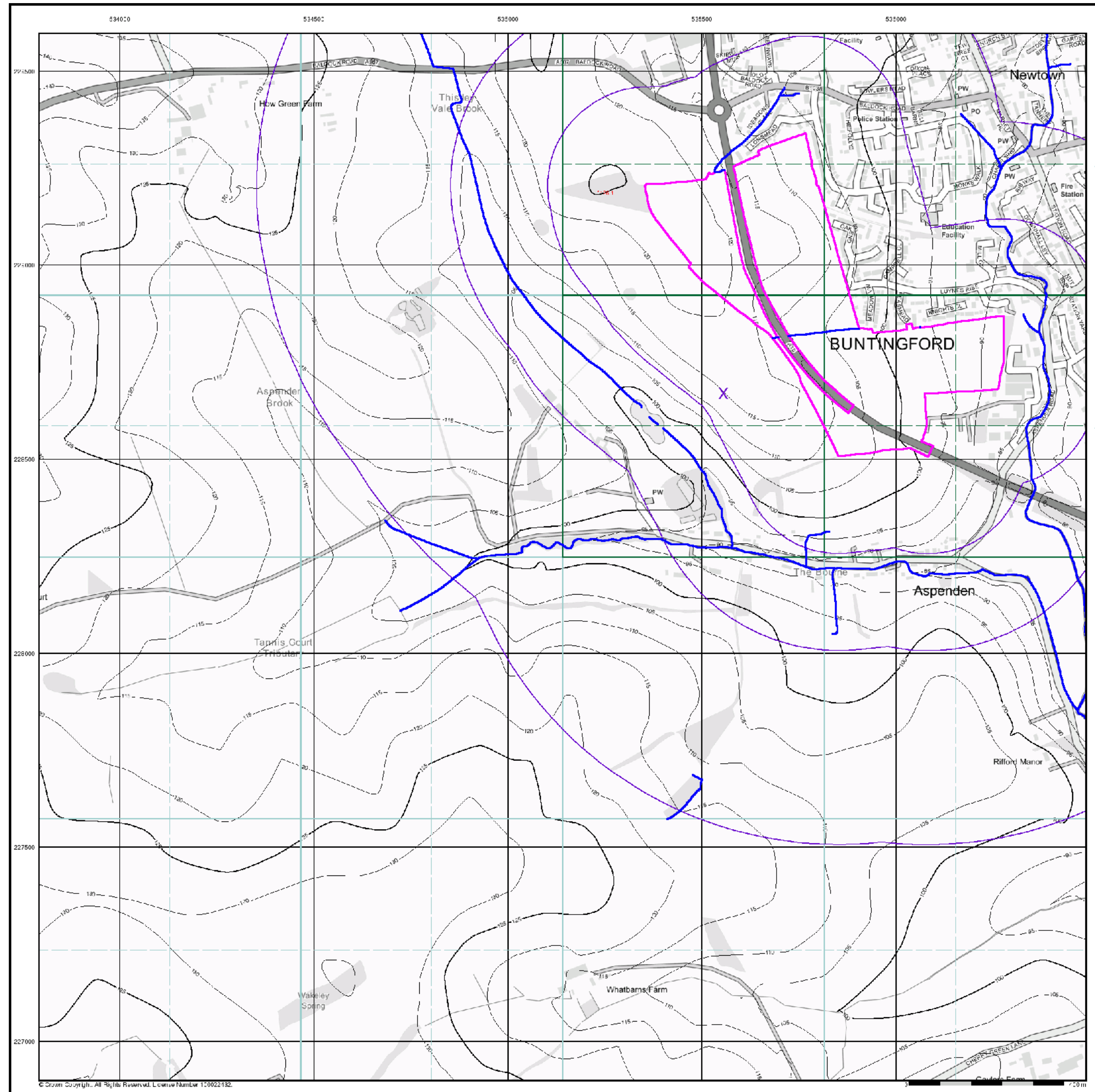
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



General

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

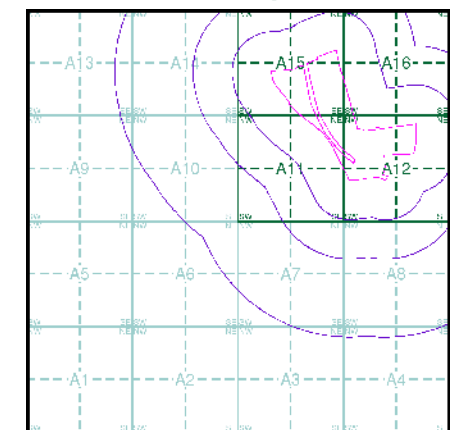
OS Water Network Data

- | | | | |
|--|--------------|--|-------------------------|
| | Canal | | Drain |
| | Reservoir | | Other |
| | Foreshore | | Lake |
| | Marsh | | Transfer |
| | Tidal River | | Lock Or Flight Of Locks |
| | Inland River | | Sea |

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height 167.3
- Mean Low Water
- Mean High Water

OS Water Network Map - Slice A



Order Details

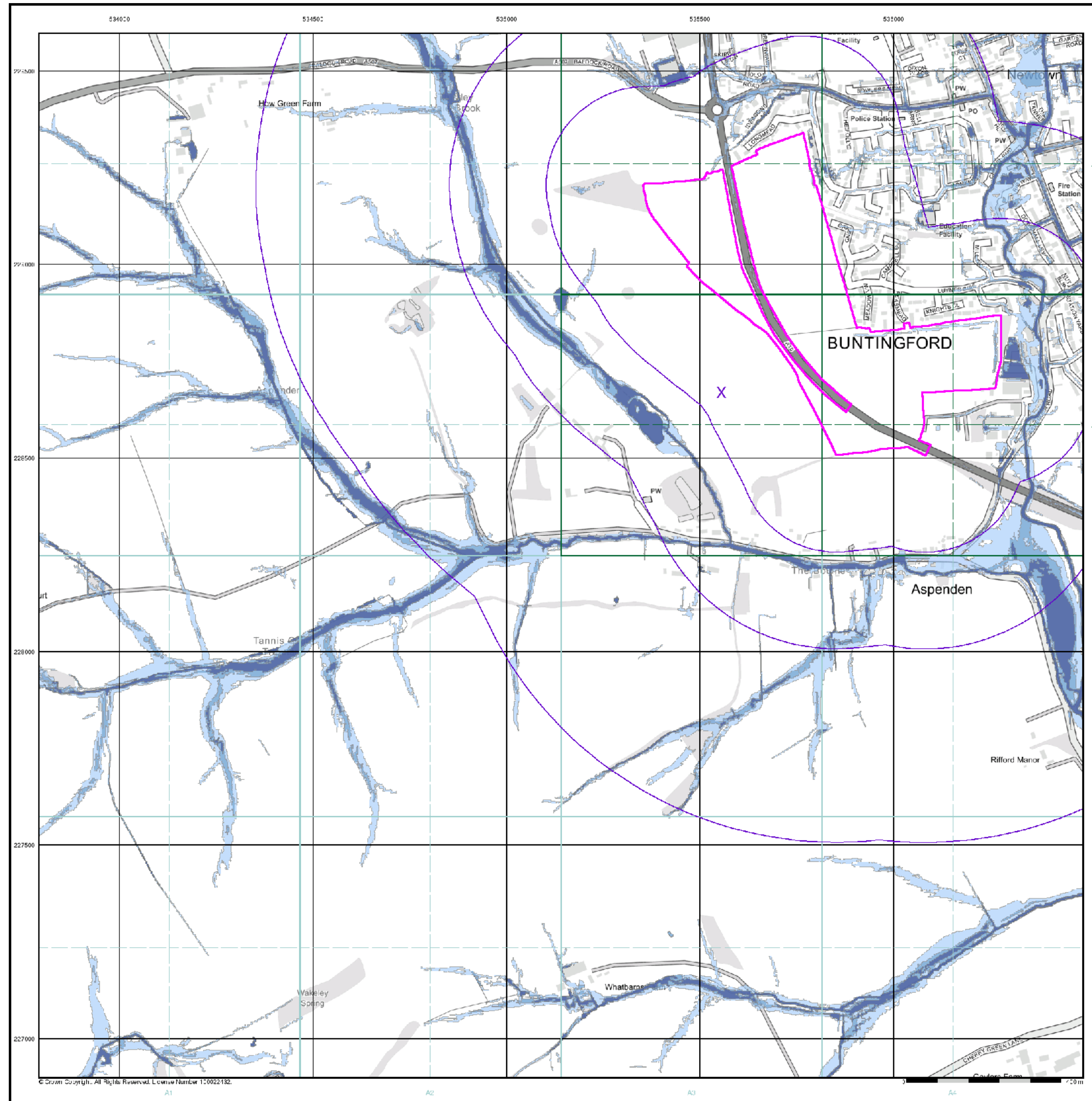
Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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



General

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

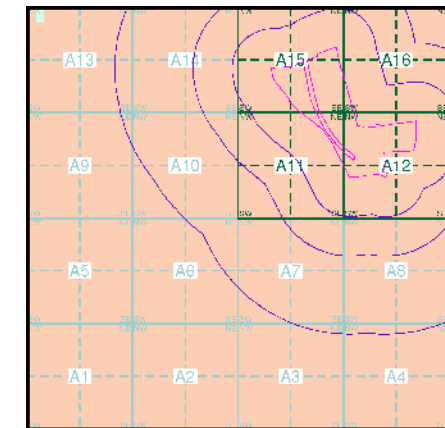
Risk of Flooding from Surface Water

- 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

EANRW Suitability Map - Slice A



Order Details

Order Number: 296189182_1_1
 Customer Ref: 70088938-L01
 National Grid Reference: 535560, 228670
 Slice: A
 Site Area (Ha): 28.24
 Search Buffer (m): 1000

Site Details

Land west of Buntingford, BUNTINGFORD, SG9 9FG



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Appendix E

EXPLORATORY HOLE LOGS



Appendix E.1

BGS BOREHOLES



ENGINEER		HERTS COUNTY COUNCIL		PROJECT				BUNTINGFORD BYPASS		GROUND LEVEL		110.80		MOD		HOLE NO		64A	
LOGGED BY		ICL		EXCAVATION METHODS				Pileon 150 Cable tool boring				COORDINATES		335680 E 228864 N		FIGURE		A	
FIELDWORK BY		SML						150mm diameter G.L. to 6.00m				DATES		17.9.82		SHEET		1 OF 1	
LAB. TESTING BY		SML																	
DATE/TIME AT DEPTH	DEPTH OF CASING	DEPTH TO WATER	N.E.M.	STRATA				SAMPLING/IN SITU TESTING					LAB TESTING					OTHER TESTS AND NOTES	
				DESCRIPTION	LEG.	LEVEL M O.D.	DEPTH m	NO	DEPTH m	TYPE	BLOWS	V / σ_v / MO	% < 25	%	PL %	LL %	MCY %		M Mg/m ³
7.9.82				TOPSOIL		110.80	0.00												
						110.20	0.60												
				Stiff light brown and grey mottled silty CLAY with some subrounded fine to coarse chalk gravel and occasional subangular to subrounded flint and assorted gravel. Occasional chalk cobbles. Becoming grey below 4.4m				1	1.00-1.45	U	(60)								
								2	1.50	D									
								3	2.00-2.45	U	(50)			17	17	34		1.98	1.54
								4	2.50	D									
								5	3.00-3.50	U,B									
								6	3.60-3.90	U	(50)								U100 attempted, no recovery
				Chalk cobble				7	4.20	D									
								8	4.50-5.00	U,B									U100 attempted, no recovery
								9	5.50-5.95	U	(80)								
7.9.82	3.00	DRY		BOREHOLE COMPLETE AT 6.00m		104.80	6.00	10	6.00	D									

WATER
 - - - First water drive
 - - - Subsequent water strikes
 □ Highest water level in open hole

PIEZOMETER
 Upper seal
 Response length
 Lower seal
 (Installation only, readings elsewhere)

SAMPLE AND TEST KEY
 D Small disturbed sample
 B Bulk disturbed sample
 W Water sample
 U Undisturbed sample
 P Piston sample
 R Rotary core recovery to scale
 V Insitu vane test
 S Standard penetration test
 C Cone penetration test
 M Permeability test
 PR Pressuremeter test

Blows: N x N value
 24/150, blows for 150mm drive after sealing
 25r, blows for part or whole of seating drive only.
 (26) Undisturbed sample blow count

V Vane strength σ_v / σ_v / σ_v
 Natural
 Remould
 Cr Core recovery %
 MO Rock quality designation
 < 25 Sample % passing 425 μ sieve

M.F. HARDY B.Sc. F.Eng. C.Eng.
 County Surveyor
 Goldings
 Hertford

SHEET 1 OF 1
 FIG. A
 HOLE NO. 64A

TL 32 NE / 26

ENGINEER HERTS COUNTY COUNCIL	PROJECT HUNTINGFORD BYPASS	GROUND LEVEL 116.35 mOD	HOLE NO 66
LOGGED BY JCL	EXCAVATION METHODS Pilon 150 Cable tool boring 150mm diameter G.L. to 20.00m	COORDINATES 535630 E 228978 N	FIGURE A
FIELDWORK BY SML		DATES 16.9.82	SHEET 1 OF 2
LAB TESTING BY SML			

DATE/TIME AT DEPTH	DEPTH OF CASING	DEPTH TO WATER	STRATA			SAMPLING/ IN SITU TESTING					LAB TESTING						OTHER TESTS AND NOTES						
			DESCRIPTION	LEG.	LEVEL m OD	DEPTH m	NO	DEPTH m	TYPE	BLOWS	V / Cr / RQD	%	W %	PL %	LL %	MCV		W Mg/m ³	Cu gN/m ²				
16.9.82			TOPSOIL		116.35	0.00																	
			Stiff light grey and brown mottled silty CLAY with some subrounded fine to coarse chalk gravel and occasional subangular to subrounded flint and assorted gravel. Becoming very stiff, grey below 4.5m	X 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	115.85	0.80	1	1.00	U	(60)						19	19	40	2.12	2.83			
					2	1.45	D																
					3	2.00	U	(60)															
					4	2.45	D																
					5	3.00	U																
					6	3.45	D																
					7	4.00	U	(40)															
					8	4.30	D																
					9	5.00	U	(60)															
					10	5.45	D																
					11	6.00	U,B	(60)															
					12	6.50	U																U100 attempted, no recovery
					13	7.05	D																
					14	8.00	U	(60)															
					15	8.30	D																
					16	9.50	U	(80)															
					17	9.95	D																
				10.00	D																		

PIEZOMETER <input type="checkbox"/> Upper seal <input type="checkbox"/> Response length <input type="checkbox"/> Lower seal (Installation only, readings elsewhere)	SAMPLE AND TEST KEY D Small disturbed sample B Bulk disturbed sample W Water sample U Undisturbed sample P Pilon sample	Blows: N x M value 26/150, blows for 150mm drive after seating 26r, blows for part or whole of testing drive only (26) Undisturbed sample blow count	V Vane strength (kN/m ²) Natural At 25°C Cr Core recovery % AGD Rock quality designation (AGS Sample % passing <25µm sieve)	M.F. HARDY B.Sc. P.Eng. C.Eng. County Surveyor Goldings Hertford	SHEET 1 OF 2	HOLE NO 66
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TL 32 NE / 26

ENGINEER HERTS COUNTY COUNCIL	PROJECT BUNTINGFORD BYPASS	GROUND LEVEL 116.35 m O.D.	HOLE NO 66
LOGGED BY ICL	EXCAVATION METHODS	COORDINATES 535630 E 228978 N	FIGURE A
FIELDWORK BY ICL	As sheet 1	DATES 16.9.82	SHEET 2 OF 2
LAB TESTING BY SGL			

DATE/TIME	DEPTH OF CASING	DEPTH TO WATER	STRATA			SAMPLING/IN SITU TESTING				LAB TESTING							OTHER TESTS AND NOTES		
			DESCRIPTION	LEG.	LEVEL = O.D.	DEPTH m	NO	DEPTH m	TYPE	BLOWS	V / Cr / RQD	% LL	% W	PL %	SL %	MCV		V Mg/m ³	Cu xN/m ²
			Very stiff grey silty CLAY (As sheet 1)	[Handwritten symbols]			18	11.00	U	(80)									
									19	11.45									
										11.50	D								
									20	13.00	U	(80)							
										13.45									
										13.50	D								
									22	14.50	U	(90)							
								101.55		14.95									
										15.00	D								
					Very stiff dark grey slightly sandy silty CLAY with a little generally fine to medium assorted gravel, mainly chalk and flint	[Handwritten symbols]			24	16.00	U,B	(70)							
										16.50									
										17.00	U	(80)							
										17.45									
										17.60	D								
										19.00	S,D	N=47							
								19.45											
16.9.82	3.00							96.35		20.00									

Water entry at 15.50m; rose to 15.30m in 20 mins
U100 attempted; no recovery.

BORING COMPLETE AT 20.00m

<p>WATER</p> <p>— First water strike</p> <p>- - - Subsequent water strikes</p> <p>☒ Highest water level in each hole</p>	<p>PIEZOMETER</p> <p>☒ Upper seal</p> <p>☒ Response length</p> <p>☒ Lower seal</p> <p>(Installation only, readings elsewhere)</p>	<p>SAMPLE AND TEST KEY</p> <p>○ Small disturbed sample</p> <p>□ Bulk disturbed sample</p> <p>W Water sample</p> <p>U Undisturbed sample</p> <p>P Piston sample</p>	<p>Rotary core</p> <p>☒ recovery to scale</p> <p>V Insitu vane test</p> <p>S Standard penetration test</p> <p>C Cone penetration test</p> <p>X Permeability test</p> <p>PR Pressuremeter test</p>	<p>Blooms</p> <p>4 x 4 value</p> <p>26/150, blows per 150mm drive after seating</p> <p>26, blows per part or whole of seating drive only</p> <p>(24) Undisturbed sample blow count</p>	<p>V Vane strength kN/m²</p> <p>Natural</p> <p>Remould</p> <p>Cr Core recovery %</p> <p>RQD Rock quality designation</p> <p>CA25 Sample % passing 4.75mm sieve</p>	<p>MF HARDY B.Sc F.Eng C.Eng</p> <p>County Surveyor</p> <p>Goldings</p> <p>Hertford</p>	<p>SHEET 2 OF 2</p>	<p>HOLE NO 66</p>
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Appendix E.2













WSP EXPLORATORY HOLE LOGS





WSP UK Ltd
Unit 9, The Chase, John Tate Road,
Hertford, SG13 7NN
Telephone: 01992 526000

TRIAL PIT LOG

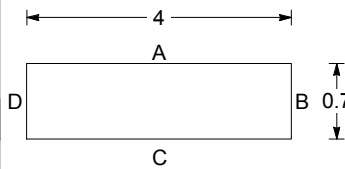
Project Land at West Buntingford	Job No 70007498	Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick-ness)	STRATA			
										Description	Legend	Geology	Install / Backfill
 									(0.25) 0.25	Dark brown slightly gravelly CLAY with rare rootlets. Gravel is fine to medium sub-angular to sub-rounded flint and sub-rounded chalk. (TOPSOIL)		TS	
									(0.65) 0.90	Soft to firm brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to medium sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
									(0.40) 1.30	Soft to firm brown slightly sandy gravelly CLAY. The clay was encountered as friable. Gravel is fine to coarse sub-rounded chalk and sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
									(0.70) 2.00	Firm brown mottled grey slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
									(0.85) 2.85	Firm light grey gravelly CLAY with rare cobbles of flint and chalk and rare lenses of dark orange fine sand. Gravel is fine to coarse sub-rounded chalk and sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
				2.50-2.85	BLK						2.80 m bgl Clay recovered as blocky material. 2.85m bgl END OF HOLE		

08 WSP TP LOG LS 2 PHOTO 28-10-14_AJW_SK LOGS_LAND AT WEST BUNTINGFORD_V1.1.GPJ_WSPTEMPLATE1.03.GDT 17/11/14

General Remarks
No visual or olfactory evidence of contamination.
No groundwater encountered.
Trial pit used for Soakaways.

Shoring/Support:
Stability: Stable

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



Length
4.00m

Width
0.70m

Orientation
degrees from north

Logged By
Alice Waylett

Ground Level (m AOD)
E 0 N 0

Method/Plant Used
JCB 3Cx

Client
Bovis Homes Ltd

Co-Ordinates (NGR)
Date 23-10-14
23-10-14

Contractor
Lynch
Scale
1:33.3

Sheet
1 of 1

Trial Hole No.
SK101



WSP UK Ltd
Unit 9, The Chase, John Tate Road,
Hertford, SG13 7NN
Telephone: 01992 526000

TRIAL PIT LOG

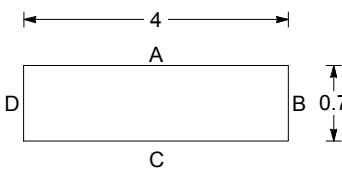
Project	Job No	Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	STRATA			
										Description	Legend	Geology	Install / Backfill
Land at West Buntingford	70007498								(0.29)	Dark brown slightly sandy slightly gravelly CLAY with rare rootlets and fine brick. Gravel is fine to medium sub-angular to sub-rounded flint and fine sub-rounded chalk. (MADE GROUND)		MG	
									(0.41)	Soft to firm brown slightly sandy slightly gravelly CLAY with rare rootlets. The clay was encountered as friable. Gravel is fine to medium sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
									(2.30)	Firm light grey mottled brown gravelly CLAY with rare cobbles of chalk and flint and rare lenses of dark orange fine sand. Gravel is fine to coarse sub-angular to sub-rounded flint and sub-rounded chalk. (LOWESTOFT FORMATION)		LOFT	
		2.50-3.00	BLK						3.00	2.90 m bgl Clay recovered as blocky material. 3m bgl END OF HOLE			



General Remarks
No visual or olfactory evidence of contamination.
No groundwater encountered.
Trial pit used for Soakaways.

Shoring/Support:
Stability: Stable

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



Length
4.00m

Width
0.70m

Orientation
degrees from north

Logged By
Alice Waylett

Ground Level (m AOD)
E 0 N 0

Method/Plant Used
JCB 3Cx

Client
Bovis Homes Ltd

Co-Ordinates (NGR)
Date 23-10-14
23-10-14

Contractor
Scale
Lynch
1:33.3

Sheet
1 of 1

Trial Hole No.
SK102



WSP UK Ltd
Unit 9, The Chase, John Tate Road,
Hertford, SG13 7NN
Telephone: 01992 526000

TRIAL PIT LOG

Project: Land at West Buntingford
Job No: 70007498

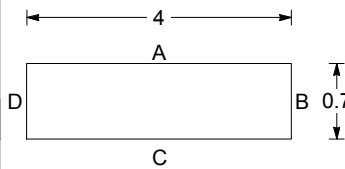


Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	STRATA			
								Description	Legend	Geology	Install / Backfill
2.50-3.00	BLK						0.28	Dark brown slightly sandy slightly gravelly CLAY with frequent rootlets and rare fine brick. Gravel is fine to medium sub-angular to sub-rounded flint and fine sub-rounded chalk. (MADE GROUND)		MG	
							0.50	Soft to firm brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to medium sub-angular to sub-rounded flint. (LOWESTOFT FORMATION)		LOFT	
							(2.50)	Firm light grey mottled brown slightly sandy gravelly CLAY with occasional cobbles of flint and chalk and rare lenses of dark orange fine sand. The clay was encountered as friable. Gravel is fine to coarse sub-angular to sub-rounded flint and sub-rounded chalk. (LOWESTOFT FORMATION)		LOFT	
							3.00	2.90 m bgl Clay recovered as blocky material. 3m bgl END OF HOLE			

General Remarks
No visual or olfactory evidence of contamination.
Slight seepage at the base of the pit after 20 minutes.
Trial pit used for Soakaways.

Shoring/Support:
Stability: Stable

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



Length 4.00m	Logged By Alice Waylett	Client Bovis Homes Ltd		Sheet 1 of 1
Width 0.70m	Ground Level (m AOD)	Co-Ordinates (NGR) E 0 N 0	Date 23-10-14 23-10-14	Trial Hole No. SK103
Orientation degrees from north	Method/Plant Used JCB 3Cx	Contractor Lynch	Scale 1:33.3	

08 WSP TP LOG LS 2 PHOTO 28-10-14_AJW_SK LOGS_LAND AT WEST BUNTINGFORD_V1.1.GPJ_WSPTEMPLATE1.03.GDT 17/11/14



WSP UK Ltd
Unit 9, The Chase, John Tate Road,
Hertford, SG13 7NN
Telephone: 01992 526000

TRIAL PIT LOG

Project	Job No	Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	STRATA			
										Description	Legend	Geology	Install / Backfill
Land at West Buntingford	70007498								(0.37)	Dark brown slightly gravelly CLAY with rare rootlets. Gravel is fine to medium sub-angular chalk and sub-rounded chalk. (TOPSOIL)		TS	
									(0.31) to 0.68	Soft to firm light brown slightly gravelly CLAY with rare rootlets. The clay was encountered as friable. Gravel is fine to medium sub-angular flint. (LOWESTOFT FORMATION)		LOFT	
									(0.52) to 1.20	Firm orangish brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sub-rounded chalk. (LOWESTOFT FORMATION) 0.68 - 1.00 m bgl In the southern face of the trial pit the clay becomes firm and dark brown in colour.		LOFT	
									(1.60)	Firm light grey mottled brown gravelly CLAY with rare cobbles of chalk and flint. Gravel is fine to coarse sub-angular to sub-rounded flint and sub-rounded chalk. (LOWESTOFT FORMATION)		LOFT	
									2.80	2.70 m bgl Clay recovered as blocky material. 2.8 m bgl END OF HOLE			
		2.50-2.80	BLK										

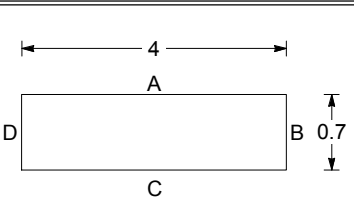


08 WSP TP LOG LS 2 PHOTO 28-10-14_AJW_SK LOGS_LAND AT WEST BUNTINGFORD_V1.1.GPJ_WSPTEMPLATE1.03.GDT 17/11/14

General Remarks
No visual or olfactory evidence of contamination.
No groundwater encountered.
Trial pit used for Soakaways.
Slight pit collapse.

Shoring/Support:
Stability: Moderate to Stable

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



Length	4.00m	Logged By	Alice Waylett		Client	Bovis Homes Ltd		Sheet	1 of 1
Width	0.70m	Ground Level (m AOD)	E 0 N 0		Co-Ordinates (NGR)	Date 24-10-14 24-10-14		Trial Hole No.	SK104
Orientation	degrees from north	Method/Plant Used	JCB 3Cx		Contractor	Scale 1:33.3			

Appendix F

UXO ASSESSMENT



Appendix G

LEGISLATIVE AND PLANNING FRAMEWORK





THE REGULATORY FRAMEWORK FOR OUR ASSESSMENT

Our assessment is made within the framework of the Contaminated Land Regime defined by Part 2A of the Environmental Protection Act and the Contaminated Land Statutory Guidance 2012. We have considered the contaminated land guidance documents issued by the Department for Environment, Food and Rural Affairs (DEFRA) including Model Procedures for the Management of Land Contamination (LCRM) (Environment Agency 2020).

Our method is to create a clear conceptual model of the potential Pollutant Linkages present on-site, consider the Sources (potential contaminants on-site) which may cause harm, via Pathways, to Receptors such as human health (e.g. that of site users), the water environment (groundwater, surface water) and the built environment (buildings, services). Contaminated Land has a precise definition, and does not include all land which contains contaminants, but only land where there is a Pollutant Linkage causing (or giving rise to a significant risk of) a degree of harm.

Our approach to the assessment of risks to Human Health is consistent with that established in LCRM. This establishes a tiered approach including:

- Preliminary Risk Assessment (e.g. the establishment of potential pollutant linkages) – normally through desk-based work;
- Generic Quantitative Risk Assessment (GQRA) (e.g. the comparison of contaminant concentrations against Soil Guideline Values (SGV) or other Generic Assessment Criteria (GAC)); and,

Detailed Quantitative Risk Assessment (DQRA) (e.g. the comparison of contaminant concentrations against site specific assessment criteria).



Appendix H

REGULATORY LIASION



To: Development Control,
From: *Claire Spendley*
Tel: 01992 531476
Date: 21/09/2022
Planning Ref: 3/22/1551/FUL
Subject: Land East Of The A10
Buntingford
Hertfordshire

Notice is hereby given that the Environmental Health Department:

- a) does not wish to restrict the grant of permission
- b) recommends that permission be refused for reasons set out below.
However in the event that the application is given approval, the conditions overleaf should be applied.
- c) advises that any permission which the Planning Authority may give shall include the conditions below.

Thank you for consulting Environmental Health on the above application. My comments are in relation to **contaminated land** and **air quality** matters only, and are as follows:-

Contaminated Land:

The development hereby permitted shall not begin until a scheme to deal with contamination of land/ground gas/controlled waters has been submitted to and approved in writing by the local planning authority. The scheme shall include all of the following measures, unless the local planning authority dispenses with any such requirement specifically in writing:

1. A Phase II intrusive investigation report detailing all investigative works and sampling on site, together with the results of the analysis, undertaken in accordance with BS 10175:2011 Investigation of Potentially Contaminated Sites – Code of Practice. The report shall include a detailed quantitative human health and environmental risk assessment.
2. A remediation scheme detailing how the remediation will be undertaken, what methods will be used and what is to be achieved. A clear end point of the remediation shall be stated, and how this will be validated. Any ongoing monitoring shall also be determined.
3. If during the works contamination is encountered which has not previously been identified, then the additional contamination shall be fully assessed in an appropriate remediation scheme which shall be submitted to and approved in writing by the local planning authority.
4. A validation report detailing the proposed remediation works and quality assurance certificates to show that the works have been carried out in full accordance with the approved methodology shall be submitted prior to [first occupation of the development/the development being brought into use]. Details of any post-remedial sampling and analysis to demonstrate that the site has achieved the required clean-up criteria shall be included, together with the necessary documentation detailing what waste materials have been removed from the site.

Reason

To minimise and prevent pollution of the land and the water environment and in accordance with national planning policy guidance set out in section 11 of the National Planning Policy Framework,

and in order to protect human health and the environment in accordance with policy EQ1 of the adopted East Herts District Plan 2018.

Air Quality

Condition

An air quality neutral assessment is to be submitted and approved in writing by the local planning authority prior to the commencement of any onsite works

Reason

In order to ensure an adequate level of air quality for residents of the new dwellings in accordance with policy EQ4 Air Quality of the adopted East Herts District Plan 2018.

Justification

In line with the requirements of the East Herts Sustainability SPD (Supplementary Planning Document) to ensure development is in line with national and local policy.

Condition

An updated odour assessment is to be completed to fully assess the odour impacts of the adjacent sewage treatment works

Reason

In order to ensure an adequate level of air quality for residents of the new dwellings in accordance with policy EQ4 Air Quality of the adopted East Herts District Plan 2018.

Justification

In order to take into consideration the recent planning application in relation to changes proposed at Buntingford sewage treatment works an updated assessment is required. The current assessment provided relies on 2017 modelling that pre dates the changes.

ENDS

Kindest regards,

Claire Spendley
Senior Environmental Health Officer
Environmental Health



Unit 9, The Chase
John Tate Road, Foxholes Business Park
Hertford
SG13 7NN

wsp.com

PUBLIC