Phase 1 Desk Study Report

Land West of Buntingford – South of A507 (Southern Site)

Hertfordshire

PREPARED BY:	FOR:	DATE:	REFERENCE:
Jubb Consulting Engineers Ltd	Hallam Land Management Ltd	July 2024	23161-JCE-XX-XX-RP-GE-001 P4

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PROJECT INFORMATION

Project Information

Client	Hallam Land Management Ltd

Project Details

Project Name	Land West of Buntingford (Southern Site)
Location	Buntingford, SG9 9ER
Jubb Project Number	23161
Title	Phase 1 Desk Study Report

Report Details

Version	P4
Status	First Issue
Date	04/07/2024

Report Authorisation

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Issue History

Version	**Date**	**Details**
P1	18/12/2023	Pre planning issue
P2	17/06/2024	Planning issue
P3	18/06/2024	Minor amendments
P4	04/07/2024	Minor amendments

EXECUTIVE SUMMARY

Client	Hallam Land Management Ltd
Project	Land at West Buntingford (Southern Site)
Objectives	The objective of the Phase 1 Desk Study is to develop a preliminary Conceptual Ground Model (ground conditions) and preliminary Conceptual Site Model (contamination exposure model) to inform and make a preliminary assessment of key geo-environmental and geotechnical risks.
Development Proposals	The site is to be developed for employment land, informal open space, and associated infrastructure, including a new roundabout on Baldock Road and new access.
Site Description and Current Use	Site is irregular in shape, approximately 13Ha in size, and comprises fields south of Baldock Road, and east of Thistley Vale Brook, site also includes sections of Baldock Road The site is agricultural land in arable use, with maximum site levels of approx. 125m AOD in the western third of the site, with levels falling to both the east (to 113m AOD) and west (to 122m AOD), The site comprises a single field, with main roads to the north and east, and agricultural land to south and west, which is bounded by hedgerows on all sides.
Site History	Historic mapping sources from 1884 until present day indicate that the site has comprised agricultural fields for the duration of the mapped period. A track was recorded in the early to mid-20th Century, located centrally, running north to south.
Geology	BGS mapping indicates the site to be underlain by superficial soils of the Lowestoft Formation, comprise extensive chalky till. Underlying these glacial deposits at depths is the Lewes Nodular Chalk Formation bedrock (unlikely to be encountered as part of the proposed development).
Mining / Mineral Extraction	The site is not within an area of recorded mining / mineral extraction. However, a former gravel pit was identified from historical mapping to the south of the site.
Ground Stability	The site will be underlain by deposits containing cohesive clay materials, which have the potential for volume change. The Envirocheck report has identified a low risk of ground dissolution features and collapsible ground, due to the underlying Chalk bedrock. Given the chalk is expected at depths exceeding 20m bgl, it is unlikely the presence of dissolution features will impact the proposed development and is considered a very low risk.
Hydrogeology and Hydrology	The superficial deposits (Glacial Till) beneath the site are classed as either a Secondary A or Undifferentiated aquifer with 'Medium' groundwater vulnerability. The solid geology (Lewes Nodular Chalk Formation) is designated as Principal Aquifer with 'Low' groundwater vulnerability. The site is within a Zone 3 (Total Catchment) groundwater Source Protection Zone (SPZ3).

Ground Gas	The site is not in a Radon Affected Area and no radon protection measures are required. No other potential gas source identified.
Possible Contaminant Linkages	The site is greenfield, and no significant sources of contamination have been identified, and the contamination potential is considered to be low. There remains a (low) risk of unrecorded made ground being present on site, which needs to be confirmed by GI works.
Geotechnical Hazards from Desk Study	Unknown made ground associated with agricultural activities, the former track, and possible backfilled mining/quarrying features may be present and could present loose and low strength ground conditions. Shrink/swell and volume change potential of cohesive soils present a potential risk to foundations. Weak/loose specifical deposits (Lowestoft Formation) presents a potential risk to foundations and other structures. Shallow groundwater may be encountered.
Conclusions	Based on historic and current uses, the overall risk of significant contamination at the site is considered low/moderate, to be confirmed by appropriate intrusive investigation, testing and assessment. It is considered unlikely that the site would be classified as Contaminated Land under Part 2A of the EPA 1990. Based on the available desk study and walk-over information, the following geotechnical issues need to be addressed in exploratory investigation: • Presence and depth of Made Ground. • Vertical extent of any shallow superficial soils and their competency.
Recommendations	To confirm the risks to receptors and confirm the ground conditions with respect to potential geotechnical and geo-environmental risks, an appropriate intrusive investigation will need to be undertaken. Based on the current data, this site investigation is proposed to comprise: • Machine Excavated Trial Pits. • Dynamic Sampled and/or Cable Percussive Boreholes. • Installation of groundwater monitoring wells and program of monitoring if deemed necessary based on GI findings.

1 Introduction

1.1 Commission

Jubb Consulting Engineers Limited (Jubb) were commissioned by Hallam Land Management Ltd to undertake a Phase 1 desk study investigation of Land West of Buntingford (Southern Site).

The site currently comprises arable fields, and is to be acquired for commercial development as part of a wider development to the north, with a view to create a new local community called 'West Buntingford'. The southern site is to be subject to an outline planning application for development of employment land (flexible use B2, B8, E(c) and E(g)), informal open space, associated works and infrastructure including a new access from A507, with all matters reserved save for access.

A site red line plan and development masterplan has been provided by David Lock Associates, showing the extent of the site for this commission, which is presented in **Appendix A.**

The works have been undertaken in accordance with Jubb's fee quote (23161 – Planning Services Fee, dated September 2023) and the Client's instructions to proceed via email, dated 15th November 2023.

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1.2 Objective

The objective of the Phase 1 Desk Study is to develop a preliminary Conceptual Ground Model (ground conditions) and preliminary Conceptual Site Model (contamination exposure model) to inform and make a preliminary assessment of key geo-environmental and geotechnical risks associated with the site with respect to re-development.

1.3 Scope, Sources & Limitations

The scope of the Phase 1 Desk Study includes a field reconnaissance (walkover); acquisition and review of;

i. historical Ordnance Survey maps;

ii. a third-party environmental report;

iii. topographical, geological and hydrogeological maps;

iv. British Geological Survey (BGS) archive records;

v. regional UXO risk maps;

The geo-environmental section of this report is written in broad accordance with BS 10175:2011+ A2:2017, 'Land Contamination: Risk Management' (LCRM, 2019).

A risk-based approach has been adopted in this desk study, the first stage of which is a Phase 1 desk study and field reconnaissance and development of an outline Conceptual Site Model detailing potential geo-environmental risks. These are then assessed qualitatively using the 'source-pathway-receptor contaminant linkage' concept to assess risk as introduced in the Part IIA of the Environmental Protection Act 1990 (EPA, 1990). The preliminary Conceptual Site Model will include a preliminary Conceptual Ground Model representing ground conditions at the site. This report also contains a qualitative assessment of plausible geotechnical hazards.

Unless specifically referred to in the text of this report, it does not cover; above ground hazards (e.g., asbestos in buildings or overhead services); potential ecological impacts (e.g., newts or bats); botanical risks (e.g., Japanese Knotweed); or structural hazards (e.g., building or boundary wall stability).

All information, comments and opinions given in this report are based on third party reports procured by Jubb and documentary records made available to us at the present time. It should be noted that documentary sources

and records may not be totally accurate, precise, or complete. It is possible, therefore that there may be potential or actual contaminants or adverse ground conditions that remain undetected.

Advice and recommendations given in this report are provided for information; they are not exhaustive and do not constitute a specification for further investigation or other works.

1.4 Information

The following documents have been provided to Jubb by Hallam Land Management Ltd for use in the preparation of this report:

- David Lock Associates, Drawing titled: Land West of Buntingford, Application Boundary Plan, ref HLM082-020, May 2024.
- David Lock Associates, Drawing titled: Land West of Buntingford, Land Use Components Plan, ref HLM082-019, June 2024.
- David Lock Associates, Drawing titled: Land West of Buntingford, Illustrative Masterplan, ref HLM082-030, June 2024.
- Interlock Surveys, Topographic Survey drawing, ref 230901 3D, dated 31/01/2024.

Jubb understand that Hallam Land Management Ltd has commissioned or obtained assignment of the above documents and Jubb is entitled to full reliance upon their contents.

2 Development Proposals

2.1 Description of Proposals

The site is to be developed for employment usage, with an outline planning application for development of employment land (flexible use B2, B8, E(c) and E(g)), informal open space, associated works and infrastructure including a new access from A507, with all matters reserved save for access.

An extract of the proposed site plan is indicated in Figure 1 below.



Figure 1: Proposed Development.

3 Desk Study

3.1 Site Setting

The site is known as Land West of Buntingford (Southern Site), the address is Baldock Road, Buntingford and the nearest post code is SG9 9ER. The site is located south of Baldrock road, west of the A10 and east of Thistley Vale Brook and is shown below in Figure 2. The Ordnance Survey National Grid Reference at the centre of the site is E535258, N229380.



Figure 2: Site Extents.

3.2 Site Description

The site comprises a field used for arable purposes, with an area of approximately 13Ha, some 440m long by 320m wide.

The site is bounded to the east by the A10, and to the north by the A507 (Baldock Road), with hedgerows around the site boundaries. A stand of trees (known as 'The Thicket') is situated on the southern boundary of the site. Triple overhead power cables run across the site western side of the site.

The site levels range from approximately 126m to 113m AOD. There is a local topographic high running north to south across the western third of the site, broadly parallel with the western site boundary and levels fall away from this to both the east and west, being approximately 122m on the western boundary, and 113m on the eastern boundary.

Further agricultural land lies to the north, south and west of the site, with a number of commercial units being situated to the north east (adjacent to the roundabout), and residential areas to east.



Photograph 1: Eastern side of site looking north to roundabout.



Photograph 2: Looking west from roundabout.

3.3 Site History

The site history has been assessed by a study of historic Ordnance Survey Maps dating back to 1884 as supplied in an Envirocheck Report and historic aerial photos from Google Earth. The historical maps/photos obtained from these sources, whilst considered to be comprehensive, may not represent all the historical maps possibly published for the site.

Historic mapping sources from 1886 until present day indicate that the site has comprised various agricultural fields for the duration of the mapped period. The area to the south of the site was woodland from earliest available maps until the 1890's when it became agricultural fields, with an area close to the site boundary named 'The Thicket' retained. A waterworks and reservoir were constructed sometime between 1899-1925, to the north of the site, opposite Baldock Road, where it remains to present day.

A minor road (track) was recorded in the early to mid-20th Century, located centrally, running north to south.

An old gravel pit is noted to the south of the site from 1899, until assumed to be backfilled by the 1920's.

Figure 3 below shows an Envirocheck report extract of 1884 historic mapping (1:10,000), and Figure 4 below shows an LiDAR image of the site (Lidar Without Trees (DTM 1m)), no current surface anomalies are observed which seems to indicate no unrecorded gravel pitting has occurred onsite, although this is not conclusive.

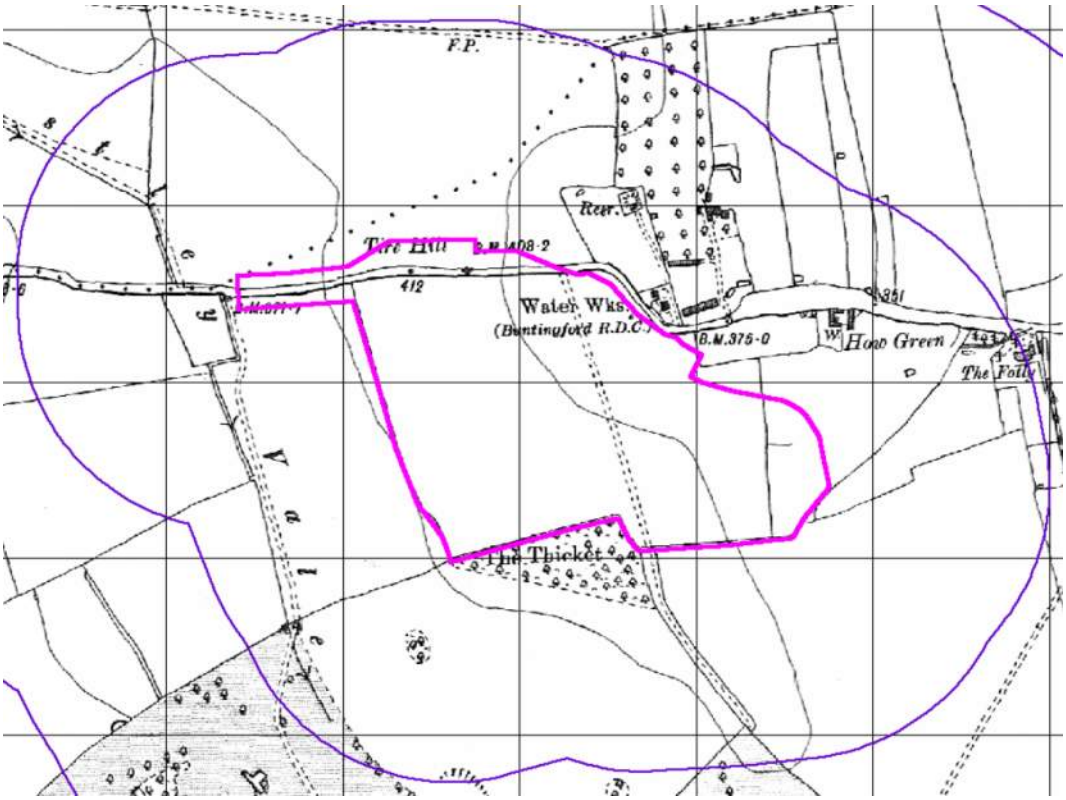


Figure 3: Extract of 1925 historic mapping



Figure 4: LiDAR image of site (Archi UK)

The historical maps reviewed are presented for reference in **Appendix C.**

3.4 Geology and Ground Conditions

The BGS 1:50,000 Solid and Drift Mapping of Hitchin, Sheet 221, the online BGS Geology of Britain Viewer, online historic 1:10,000 British Geological Survey (BGS) mapping (Sheets: TL33SW, TL33SE, TL32NW, and TL32NE) and the 1:10,000 BGS map extract reproduced as part of the Envirocheck report shows the site to be underlain by Bedrock geology of the Lewes Nodular Chalk Formation And Seaford Chalk Formation (Undifferentiated) – Chalk, with the parent unit of the White Chalk Subgroup, referred to through the remainder of this report simply as 'Chalk'.

Superficial deposits of the Lowestoft Formation – Diamicton, historically referred to as 'Till or Boulder Clay', and" very stoney soils", are shown to overly the entirely of the site, the BGS describes these soils as an "extensive sheet of chalky till, together with outwash sands and gravels, silts and clays. The till is characterised by its chalk and flint content".

Other superficial deposits present on site overlying the Lowestoft Formation including pockets of Glaciofluvial deposits (sand and gravel) located in east of the site as shown below. Mapping also shows Head Deposits (clay, silt, sand and gravel) around the existing water course to the west.

Superficial geology is shown on Figure 5 below.

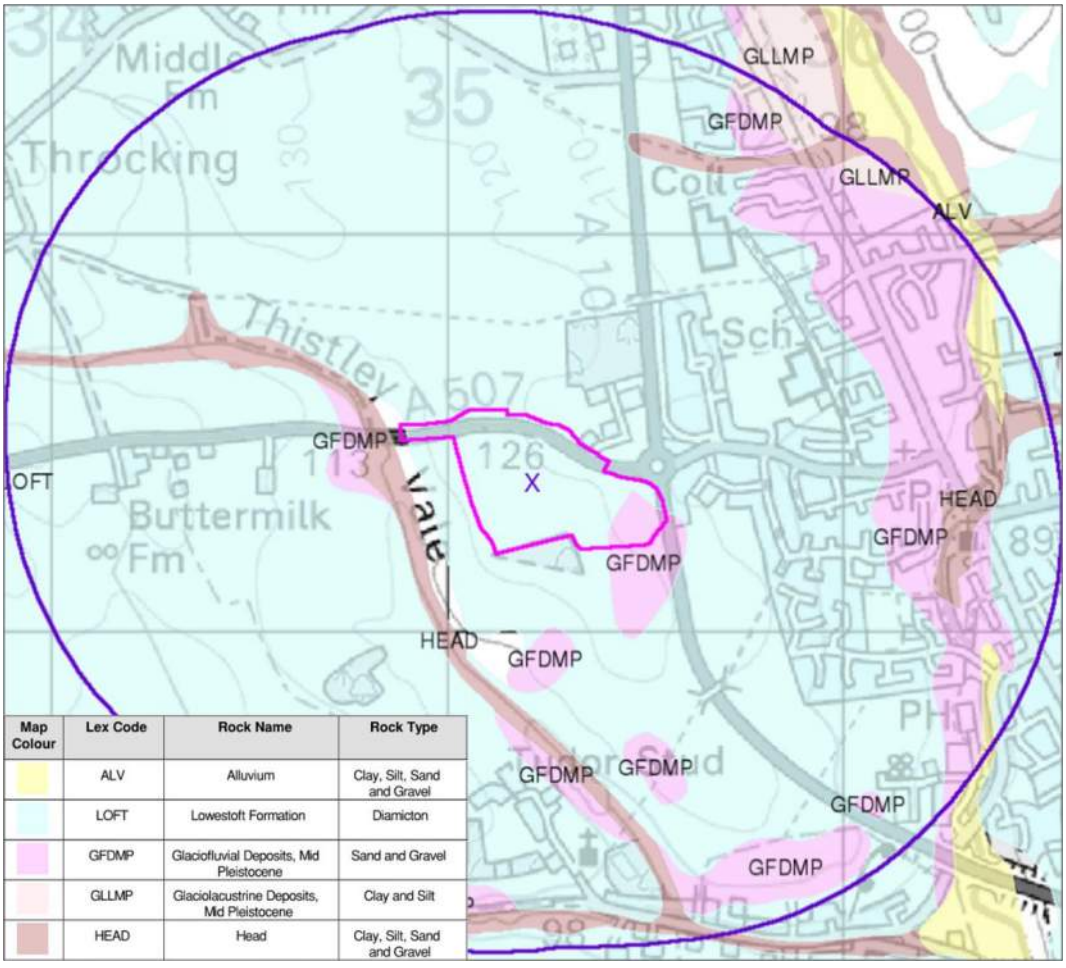


Figure 5: Superficial Geology

An area of Made Ground is noted 45m east of the site adjacent to the A10 roundabout likely associated with the roundabout construction.

A number of borehole logs from the BGS archive have been reviewed, all associated with the Buntingford Bypass (A10) project, undertaken between 1982 and 1985, prior to the construction of the Bypass Road (A10).

Exploratory hole techniques included percussive boring and trial pitting, and select records are summarised below:

- TL33SE9, A10 LONDON TO CAMBRIDGE TRUNK ROAD - 85, NGR: 535438E, 230267N, drilled to a depth of 5.5m bgl (pre-bypass construction), from an elevation of 106.33m AOD, and recorded:
  - "*Topsoil*" to 0.50m bgl, over;
  - "*Firm brown sandy silty clay with some subangular to rounded assorted fine to coarse gravel, mainly flint*", to depths of 2.0m bgl, over;
  - "*Firm to stiff, becoming stiff to very stiff with depth, grey and brown mottled silty clay with some subangular fine to coarse chalk gravel and occasional subangular to subrounded flint and assorted gravel. Becoming grey below 4.0m*".
- TL32NE28, A10 LONDON TO CAMBRIDGE TRUNK ROAD - 78, NGR: 535464E, 229807N, drilled to a depth of 5.0m bgl (pre-bypass construction), from an elevation of 118.33m AOD, and recorded:
  - "*Topsoil*" to 0.30m bgl, over;
  - "*Stiff becoming very stiff with depth brown and grey mottled silty clay with some subrounded fine to coarse chalk gravel and occasional subangular to subrounded flint and assorted gravel. Occasional cobbles and iron staining. Becoming grey below 4.0m."*
- TL32NE65, A10 BUNTINGFORD BY-PASS TP117 (*BH117*), NGR: 535479E, 229818N, drilled to a depth of 20m bgl (pre-bypass construction), from an elevation of 117.387m, and recorded:
  - "*Topsoil*" to 0.30m bgl, over;
  - "*Firm-stiff grey-brown mottled silty clay with chalk nodules and m.s. stones" to 2.0m bgl, over*;
  - *"Stiff to hard grey brown becoming dark grey and fissured, silty clay with chalk nodules and small stones (likely flints)*", to depths of 8.0m bgl, over;
  - "*A stiff or hard dark grey silty clay, with occasional stones*", chalk nodules and mudstones, to depths of 20m bgl, however;
  - a stratum of medium dense "*clayey silty sand with some chalk pebbles*" was recorded between 12-14m bgl.
  - A water strike was recorded at 11.8m bgl (105.587m AOD), with standing water at 3.8m bgl (113.587m AOD) sometime during the drilling.
- TL32NE61, A10 BUNTINGFORD BY-PASS TP113, NGR: 535224E, 229513N, excavated to a depth of 2.6m bgl (pre-bypass construction), from an elevation of 118.845m AOD, and recorded:
  - "*Topsoil*" to 0.30m bgl, over;
  - "*Soft-firm grey-brown mottled silty clay with many chalk nodules, and some medium-large flints*", becoming firm at 1.5m bgl and firm to stiff at 2.0m bgl.

The archived BGS borehole records generally indicate, an undescribed topsoil material to between 0.30 and 0.50m bgl, likely cohesive, over an undefined thickness of over consolidated clays, ranging from soft to hard, although typically firm to stiff and increasing with depth, with the lower profile depth exceeding 20m bgl.

A number of geotechnical laboratory test results were reported within the above historic logs, which show the (nearby) soils of the Lowestoft Formation deposits between 1m-5m bgl to have a moisture content in the region of 13-21%, (more consistently between 18-21%,) and a plasticity index in the region of 23-29%, which can be described as high plasticity. These values should be taken as guideline only, as they were performed in the 1980's and no laboratory certificates are available. Glacial till is also a highly variable and complex deposit, and several boreholes and limited testing is unlikely to have fully characterised the material.

3.5 Natural Soil Chemistry

Information obtained from the BGS Geoindex Onshore database provides indicative concentration values for the natural soils at the site for a selection of contaminants of potential concern. These are listed below.

- Cadmium: <1.8 mg/kg
- Nickel: 30 mg/kg- 45 mg/kg
- Lead: <100 mg/kg
- Chromium: 60 mg/kg – 90 mg/kg
- Arsenic: 15mg/kg - 25 mg/kg

No significant elevated concentrations are shown.

3.6 Hydrogeology

The superficial deposits beneath the site are classed as a Secondary A and Undifferentiated aquifers with Medium groundwater vulnerability, whereas the solid geology (Lewes Nodular Chalk Formation) is designated as Principal aquifer with low groundwater vulnerability, based on the Environment Agency's interactive aquifer designation map.

Principal aquifers are defined as “providing significant quantities of water and can support water supply and/or baseflow to rivers, lakes and wetlands on a strategic scale. They typically have a high intergranular and/or fracture permeability meaning they usually provide a high level of water storage”. Secondary aquifers are defined as “providing modest amounts of water, but the nature of the rock or the aquifer’s structure limits their use. They support water supplies at a local rather than strategic scale (such as for private supplies) and remain important for rivers, wetlands and lakes. They have a wide range of water permeability and storage”.

Medium vulnerability soils and rock are those intermediate between high and low vulnerability.

Low vulnerability soils and rock are those that provide the greatest protection to groundwater from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

There are no active licensed groundwater abstractions within 500m of the site.

The site is within a Zone 3 (Total Catchment) groundwater Source Protection Zone (SPZ3), describes as “the total area needed to support the discharge from the protected groundwater source”. This likely relates to one potentially active licensed groundwater abstraction located >1km to the northwest, for General Farming and Domestic use, issued in 1966. No permit end date is recorded, so is presumed to remain active. The presence of nearby private groundwater supplies is not known. While site is in SPZ3, chalk strata is overlain by 20m or more of low permeability glacial deposits, and therefore risk to the SPZ and offsite groundwater are likely to be low.

The environmental data report indicates a limited potential risk of groundwater flooding. Shallow groundwater is likely to be present within the superficial deposits, with a deeper groundwater body in the solid geology. Evidence for shallow groundwater is highlighted by the existing water course (Thistley Vale Brook) traversing the site from north to south. Nearby archived historic borehole recorded (as described in section 3.4), indicate the potential presence of water beneath the site, within bands of more granular superficial deposits. One such borehole located in the far east of the site (Ref: TL32NE65), drilled to a depth of 20m bgl (pre-bypass construction), from an elevation of 117.387m, recorded a water strike at 11.8m bgl (105.587m AOD), with standing water rising to at 3.8m bgl (113.587m AOD) sometime during the drilling.

3.7 Hydrology

A watercourse named Thistley Vale Brook is located approximately 20m to the west of the site running from north to south and flows beyond the site boundary to the south before feeding into the River Rib approx. 1.5km southeast.

Offsite surface water features of note include a pond located 100m west of the Thistley Vale Brook as well as Aspenden Brook located a further 300m to the west.

There is 1 no. active licensed surface water discharge within 500m of the site, located 94m northeast at Sunnyside Nursery discharging treated/ final effluent sewage onto land via soakaway. An additional 17 no. are located between 500m - 1km of the site, generally for treated/ final effluent sewage.

The desk study indicates that areas of site around Thistley Vale Brook are susceptible to flooding from Rivers or Sea and fall into Flood Zone 2, risk of flooding from rivers does not extend onto the site.

No risk of surface water flooding is recorded onsite, as recorded within Gov.uk mapping, shown in Figure 6 below. Off site, small, localised areas of medium and high risk of surface water flooding is present, associated with the lower lying areas adjacent to the Thistley Vale Brook to the west and on hardstanding around existing structures within Buntingford Business Park to the northeast.

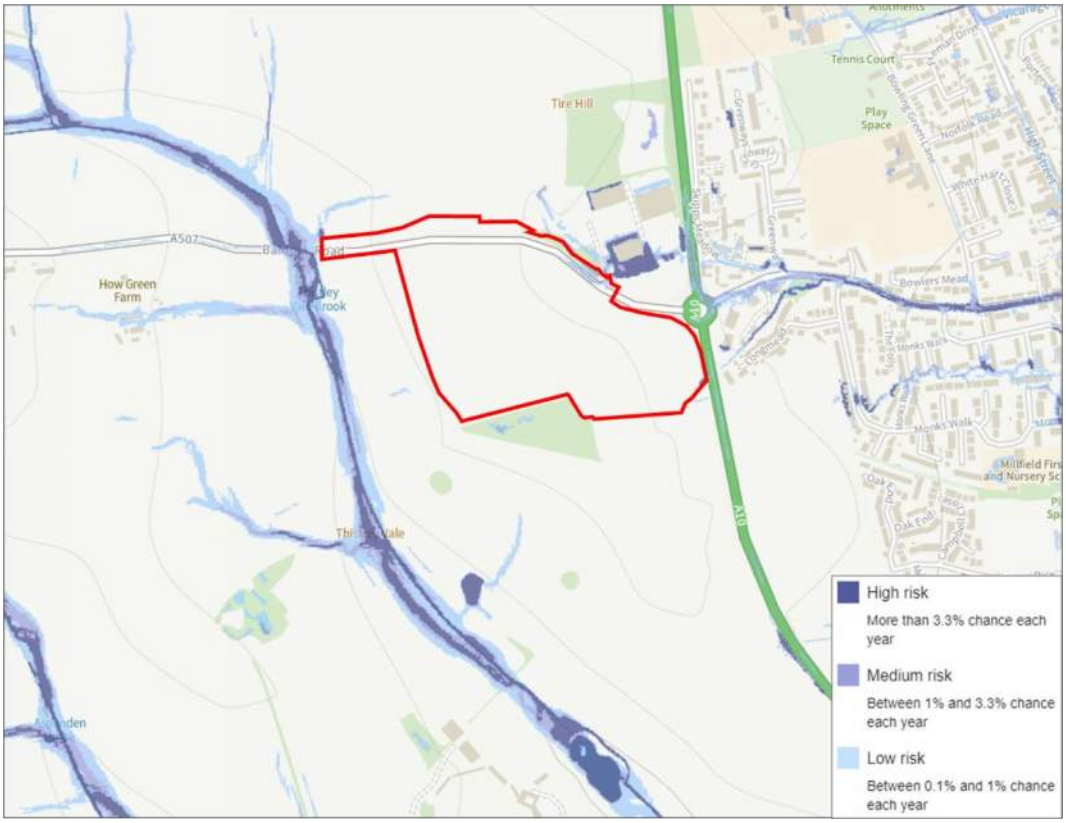


Figure 6: Surface Water Flood Risk Mapping (Gov.uk)

3.8 Natural Ground Instability

The site is underlain by superficial glacial and head deposits, therefore based on anticipated ground conditions and findings from the nearby historic boreholes discussed in section 3.4, the soils beneath the site will likely contain cohesive clays in places. Where clay strata is present, there will be the potential for shrink-swell to occur, the likelihood and extent of which will need to be established by appropriate ground investigation works.

The Envirocheck report has identified a low risk of ground dissolution features and collapsible ground, due to the underlying Chalk bedrock where dissolution features are typically found. Given the chalk is expected at depths exceeding 20m bgl, it is unlikely the presence of dissolution features will impact the proposed development and can be considered very low risk. Issues arising from shrinking or swelling of cohesive fraction of the superficial Lowestoft Formation Deposits are more likely to impact the site, if of medium or high plasticity, and in areas of recent, or proposed vegetation change (including the alteration of historic field boundaries).

Surface water flow will need to be suitably managed for any development, in order to prevent dissolution features occurring in the future.

3.9 Mining and Mineral Extraction

The site is not within an area of recorded mining / mineral extraction.

However, a former gravel pit was identified from historical mapping to the south of the site. A potential risk from further unrecorded quarrying is therefore present on site, but considered low.

3.10 Regulatory Information

Information in the environmental report (**Appendix B**), relating to regulatory records and controls has been reviewed.

The desk study has identified the following regulatory records and/or controls of significance.

A number of Contemporary Trade Directory Entries, 9 no. within 250m in all directions, 3 no. of which are active sites. The closest of which is an active recycling services located 68m northeast. An active BP petrol station is located 86m northeast. The remainder are an assortment of classifications expected from a central town location.

There are no recorded pollution incidents within 500m of the site.

Given the relatively age of the fuel station (late 1980s), the construction of any tanks will likely have been to a modern standard and therefore, significant contamination and leaking from the tanks is unlikely. The fuel station is also downgradient of the site, so any contamination will likely be migrating away from the site boundary, therefore the fuel station is unlikely to pose a source of contamination to the site.

None of the other trade directories are considered likely to impact the state of the site or contamination profile.

3.11 Radon

The guidance indicates that the site is in a Radon Affected Area where recorded radon levels in 1-3% of homes are above the action level, but no radon protection measures are required for new buildings at this location in line with current guidance.

3.12 Unexploded Ordnance (UXO)

A non-specialist UXO screening exercise has been undertaken from a review of readily available bomb risk maps and historical and geological maps.

Bomb risk mapping indicates the site sits within a low UXO risk zone (provided by Zetica) therefore, no further consideration is needed.

4 Preliminary Conceptual Models

4.1 General

The preliminary conceptual ground model detailed here presents the current understanding of the site ground conditions. This model has been used to inform the preliminary geotechnical hazard assessment and the preliminary geo-environmental exposure model.

4.2 Geotechnical Hazard Assessment

The identification of possible geotechnical hazards has been undertaken in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The main geotechnical risks associated with the site are:

- Unknown made ground associated with agricultural activities and possible backfilled mining/quarrying features.
- Shrink/swell of cohesive soils.
- Weak/loose specifical deposits.
- Shallow groundwater.

Table 1: Preliminary Geotechnical Risk Register

Hazard	Comments	What is at risk	Consequence	Current Risk Level	Recommended Action (to clarify level of risk and assess suitable mitigation measures or to mitigate the risk)
Unrecorded Made Ground in infilled quarry and elsewhere (variable strength and stability).	The possibly of unrecorded Made Ground due to past unknown agricultural activities (construction of slurry pits, etc), the former track, and past mining or quarrying activities (backfilled clay or sand pits).	Buildings Pavements Services Landscaping Construction Staff, vehicles, and operators.	Foundation failure (bearing capacity / settlement), slab failure (settlement), settlement of pavements, services and landscaping. Poor temporary trafficking conditions.	Low	Complete an appropriately scoped intrusive ground investigation to assess the depth, distribution, and compressibility of the soils.
Shrinkage / swelling of the clay fraction of soils under the influence of vegetation.	Site is underlain by River Terrace Deposits and Mercia Mudstone. Both of these can potentially contain clays of volume change potential, but that is not necessarily 'likely'.	Roads and Pavements	Damage to foundations, flood slabs and pavements from shrinkage and swell.	Moderate	Complete adequate laboratory testing to understand the volume change potential of the soils expected and variance with depth.
Weak / loose ground (low strength and high settlement potential).	The site is underlain by significant (20m+) thicknesses of Lowestoft Formation (Glaciofluvial) deposits which although historically recorded as firm to stiff, is subject to contain variability and lenses of softer cohesive and/ or granular material.	Buildings Pavements Services Landscaping Construction Staff, vehicles, and operators.	Foundation failure (bearing capacity / settlement), flood slab failure (settlement), settlement of pavements, services and landscaping. Poor temporary trafficking conditions.	Low / Moderate	Complete an appropriately scoped intrusive ground investigation to assess the depth, distribution, and compressibility of the soils.
Shallow groundwater.	Groundwater depth is not known, but existing watercourse nearby historic borehole (Ref: TL32NE65) indicated water levels may sit at levels of 113.5m along the eastern boundary, therefore may be present above 3m bgl, particularly in winter months.	Basements Services Temporary excavation stability. Slopes	Difficulties during construction, basement flooding, excavation collapse, slope instability	Moderate/ Low	Ground investigations to include the assessment of encountered seepage, perched and standing water. A ground water monitoring program should be carried out to monitor the medium to long term groundwater levels beneath the site, particularly in ower lying areas, where attenuation drainage solutions are likely to be proposed and surface run off may gather.
Sulfates present in the soils.	Attack of buried concrete. Glacial deposits are known to contain elevated sulfate concentrations.	Below ground concrete	Damage to concrete and reduction in strength.	Low	Complete adequate laboratory testing to understand the buried concrete classification of the soils present and any variance with depth.
Void migration, collapse and weak ground associated with Solution features (chalk)	The site lies within an area underlain by chalk, however a thick profile of largely cohesive superficial deposits (>20m) minimises the risk of dissolution features in respect to the sites proposed development.	Buildings Infrastructure Site users	Damage to buildings and infrastructure, and risk life.	Low	Ground investigation to identify the upper profile and density of the underlying Chalk bedrock.

4.3 Geo-environmental Exposure Model

This preliminary Conceptual Site Model (exposure model) provides a method to characterise potential site risks, by outlining potential sources of contamination, identifying potential receptors that may be impacted, and determining potential pathways by which sources may affect receptors.

The following outline site model has been derived from an assessment of the sites environmental setting and site history.

4.3.1 Potential Sources of Contamination

The potential contaminants described below have been identified from a study of the site history. The principal contaminative sources are as follows:

On-site

- Made Ground, associated with historical agricultural use, the former track, potential quarrying activities, possibly including elevated concentrations of metals, metalloids, asbestos fibres, Asbestos Containing Materials, PAH and petroleum hydrocarbons.

Off-site

No significant potential off site contamination sources identified.

4.3.2 Potential Receptors

The following potential receptors have been identified, based on the proposed development of the site for residential purposes:

- People (neighbours, site end users).
- Development end use (buildings, utilities and landscaping).
- Groundwater: Principal and Secondary Aquifers (Glacial/Head Deposits and Lewes Nodular Chalk).
- Surface water: on-site watercourse (Thistley Vale Brook).

Consideration of occupational health and safety in relation to construction work is beyond the scope of this report. Health and safety risks to site development contractors and maintenance workers have not therefore been assessed as part of this study and will need to be considered separately.

4.3.3 Potential Pathways

The following potential pathways have been identified in relation to the potential contamination and receptors described above.

- Ingestion, skin contact, inhalation of dust and outdoor air by people.
- Root uptake
- Migration/leaching to groundwater
- Surface water run-off to onsite watercourse

The above sources, pathways and receptors have been considered as part of the Preliminary Risk Assessment in accordance with LCRM (2019). Table 2 below summarises the possible linkages in the context of this site which should be carried forward for investigation and assessment.

Table 2: Preliminary Exposure Model

Sources	Receptor	Pathway	Consequence	Probability	Risk	Comments
Made Ground – uncontrolled and unrecorded, associated with agricultural reworking of shallow soils, the former track, and unrecorded infilling activities	People	Ingestion Inhalation Direct Contact	Medium	Low Likelihood	Low risk	Possible presence of unknown Made Ground associated with past agricultural, former track and mining activities on site. GI works required to prove likely absence of contamination and assess any risk to various receptors.
	Groundwater Surface water	Leaching through unsaturated zone Surface wate runoff or drainage	Mild	Low likelihood	Very Low Risk	

5 Conclusions and Recommendations

5.1 Geotechnical Conclusions

No proposed development plans or foundation loads were available at the time of this assessment. However, the nature of the proposed buildings are largely expected to be low rise commercial buildings, and foundation loads could therefore be expected to be relatively low. The site is expected to be underlain in its entirely by significant thicknesses of Lowestoft Formation – Diamicton superficial (Glaciofluvial) deposits, described as extensive sheets of chalky till. Nearby archived borehole records indicate the Lowestoft Formation deposits to exceed 20m in thickness and predominantly comprise firm to stiff, (likely high plasticity clays). Chalk is unlikely to be encountered as part of the development proposals.

Shallow foundation solutions may be suitable although the strength and plasticity of the underlying soils require further assessment, in respect to changes laterally and vertically. Recent and historic vegetation change including the presence of historic woodland and proposed vegetation may require localised deepening of shallow foundations, or a deeper foundation solution to be adopted.

This assessment has identified a risk associated with unrecorded Made Ground on site, principally associated with backfilled unrecorded minor quarries and borrow pits, and therefore appropriate level of ground investigation is required to mitigate this risk.

Ground bearing floor slabs may be suitable subject to presence of shallow cohesive soils (which could potentially be susceptible to volume change). If encountered and of sufficient thickness, then suspended floor slabs may be required.

Shallow groundwater may be anticipated within the granular superficial deposits given the existing watercourse and the site is classed as being in an area where there is limited potential for groundwater flooding to occur.

Given the principal cohesive nature of the Lowestoft Formation and potential shallow groundwater, it is not considered likely that infiltration drainage will be widely feasible across the site, although there may be localised areas of the site where more granular soils permit infiltration, subject to a ground investigation and testing.

5.2 Geo-environmental Conclusions

The site has had no significant previous historical uses; therefore, the preliminary contamination potential of the site is assessed as low risk.

A geo-environmental assessment should be undertaken alongside the ground investigation to prove the absence of any contamination risks to the proposed development, in particularly around historic track location which crossed the site centrally north to south in the early to mid-20th Century.

5.3 Recommendations

A Ground Investigation (GI) targeting the area of the development is recommended, including a spread of shallow exploratory holes with suitable geo environmental and geotechnical sampling and laboratory testing.

The GI should determine depth and strength of the underlying superficial deposits, including the lateral variability of the cohesive Lowestoft Formation soils under the site is required, to provide data for the design of foundation solutions and bearing depths. Assessment of the plasticity and volume change potential of the underlying clay soils is required in particular, as areas (may) have, or will experience significant vegetation change as part of the proposed development.

Groundwater levels should be investigated, and the installation of shallow groundwater monitoring wells and subsequent rounds of monitoring should be carried out to identify any potential risk to the

development. Deeper boreholes should target the ground conditions to approximately 5-10m bgl, although proposed borehole depths should be assessed based on expected development and anticipated foundation loads (which will become clear as the masterplan develops).

Although unlikely to be successful, soakaways may need to be carried out to aid the drainage design, particularly where attenuation drainage is proposed.

In-situ shallow CBRs should be carried out to aid pavement design.

To summarise the investigation should include:

- Suitable spread of machine excavated trial pits;
- Suitable spread of window sample boreholes;
- Suitable spread of deeper boreholes;
- Installation of groundwater monitoring wells and program of monitoring;
- In-situ CBR testing;
- In-situ soakaway testing;
- Programme of contamination and geotechnical testing.

Additional investigation, sampling and testing may be required if earthworks or retaining walls are proposed.

6 Limitations and Uncertainties

The following site-specific limitations and uncertainties are inherent within this DTS reporting:

- Areas of historic quarrying may exist on site that may have been infilled, or area of infilled ditches etc, that are not shown on historic maps or no longer clearly apparent.
- Glacial till is inherently variable, and potentially a complex deposit that needs to be thoroughly investigated and characterised.

APPENDIX A: DRAWINGS

Site Boundary (13.28ha)

Path (um)
FB
45 to 90
El Sub Sta
SKEPPS MEADOW
Pond
Mast
Reservoir (covered)
Buntingford Business Park
El Sub Sta
Tire Hill
125.9m
A 507
BALDOCK ROAD
BALDOCK ROAD
A10
Ivy House
Oak View
Fairview
The Old Farmhouse
B 1038
BALDOCK ROAD
A 507
The Thicket
Thistley Vale
Pond

Rev	Description	Date

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Client:

Hallam Land Management

Land West of Buntingford

Application Boundary Plan (South of Baldock Road)

Scale@ A3 :	Drawn:	Designed:	Approved:
1:2,500	ADW	SJP	SJP

0m 100m

Drawing Number:	Revision:	Date:
HLM082/020	C	30.05.24

50 North Thirteenth Street, Central Milton Keynes, MK9 3BP
01908 666276 mail@davidlock.com **davidlock.com**

DAVID LOCK ASSOCIATES

- Site Boundary
- Other Land in Applicant's Control
- Employment
- Informal Open Space
- Proposed Structural Planting
- Infrastructure
- Existing Vegetation
- 'Buntingford Park'
- SuDS (Indicative)
- Indicative Structural Streets
- Access
- Potential Foul Water Pumping Station

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Client: Hallam Land Management

Land West of Buntingford

Land Use Components Plan (South of Baldock Road)

Scale@ A3 :	Drawn:	Designed:	Approved:
1:2,500	ADW	SJP	SJP

0m — 100m

Drawing Number:	Revision:	Date:
HLM082/019	E	10.06.24

50 North Thirteenth Street, Central Milton Keynes, MK9 3BP
01908 666276 mail@davidlock.com **davidlock.com**

DAVID LOCK ASSOCIATES

- Employment
- Green Space
- SuDS
- Structural Planting
- Vegetation
- Existing Woodland

A10

Baldock Road

A10

Rev	Description	Date

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Client:

Hallam Land Management

Land West of Buntingford

Illustrative Masterplan (South of Baldock Road)

Scale@A3:	Drawn:	Designed:	Approved:
1:5,000	**MG**	**SJP**	**SJP**

0m — 200m

Drawing Number:	Revision:	Date:
HLM082/030	**C**	**10.06.24**

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DAVID LOCK ASSOCIATES

APPENDIX B: ENVIROCHECK REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
351867540_1_1

Customer Reference:
23161 (2)

National Grid Reference:
535210, 229380

Slice:
A

Site Area (Ha):
13.51

Search Buffer (m):
1000

Site Details:

Urbaser Ltd, Unit 1
Buntingford Business Park
Baldock Road
BUNTINGFORD
SG9 9ER

Client Details:

Mr P Weber
Jubb Consulting Engineers Ltd
Ensign House Parkway Court
Longbridge Road
Plymouth
PL6 8LR

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Hazardous Substances	-
Geological	24
Industrial Land Use	29
Sensitive Land Use	42
Data Currency	43
Data Suppliers	49
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Introduction

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

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Report Version v53.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1		17
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 5		1		2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature			Yes		
Pollution Incidents to Controlled Waters	pg 6				10
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 7				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 8				2
Water Abstractions	pg 8				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 8	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 9	2	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones	pg 9	1			
Extreme Flooding from Rivers or Sea without Defences	pg 9		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10		12	10	71

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	pg 21				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 21		1		1
Local Authority Landfill Coverage	pg 21	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 21				2
Potentially Infilled Land (Non-Water)	pg 22				4
Potentially Infilled Land (Water)	pg 22		3	1	9
Registered Landfill Sites	pg 23				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Summary

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 24	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 24	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25			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 26	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 26		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 27	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 28	Yes	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 29		9	3	70
Fuel Station Entries	pg 36		1		1
Points of Interest - Commercial Services	pg 36		6	1	12
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 38		1		12
Points of Interest - Public Infrastructure	pg 39		9	3	4
Points of Interest - Recreational and Environmental	pg 40			3	3
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 42	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: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	0	1	535000 229377
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (S)	0	1	535213 229377
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SE (N)	440	1	535213 230000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SE (N)	445	1	535000 230000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	500	1	536050 229377
1	**Discharge Consents** 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 Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A11NW (NE)	94	2	535440 229520
2	**Discharge Consents** Operator: Mr. B.J. Hunt Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: The White Lodge, Baldock Road, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1379 Permit Version: 1 Effective Date: 6th January 1987 Issued Date: 6th January 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Onto Land Receiving Water: Boulder Clay **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A9NE (W)	517	2	534370 229420
3	**Discharge Consents** Operator: The Occupier Property Type: FORESTRY + LOGGING Location: Buttermilk Farm, Cottered, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctlu.0353 Permit Version: 1 Effective Date: 21st June 1974 Issued Date: 21st June 1974 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A9NE (W)	582	2	534310 229380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Mr. P. Olley Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Little Meadow, Baldock Road, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1749 Permit Version: 1 Effective Date: 21st July 1987 Issued Date: 21st July 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Onto Land Receiving Water: Boulder Clay **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A9NE (W)	587	2	534300 229410
4	**Discharge Consents** 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 Environment: Freshwater Stream/River Receiving Water: Un-Named Trib Of The R. Rib **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12SE (E)	710	2	536260 229260
5	**Discharge Consents** Operator: Chris Rixon Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Buttermilk Grange & 1+2 Buttermilk Baldock Road Buntingford Hertfordshire Sg9 9rh Sg9 9rh Authority: Environment Agency, Thames Region Catchment Area: Rib Reference: Canm.0914 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: To Groundwater Via Soakaway **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9NW (W)	716	2	534168 229448
5	**Discharge Consents** Operator: Chris Rixon Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Buttermilk Grange & 1+2 Buttermilk Baldock Road Buntingford Hertfordshire Sg9 9rh Sg9 9rh Authority: Environment Agency, Thames Region Catchment Area: Rib Reference: Canm.0914 Permit Version: 1 Effective Date: 9th May 2005 Issued Date: 6th March 2006 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: To Groundwater Via Soakaway **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9NW (W)	716	2	534168 229448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: The Occupier Property Type: FORESTRY + LOGGING Location: Buttermilk Hall Farm, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctlu.0401 Permit Version: 1 Effective Date: 4th August 1975 Issued Date: 4th August 1975 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A9NW (W)	738	2	534150 229400
7	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Church Street Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0684 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Rib **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (E)	805	2	536300 229601
7	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Church Street Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0684 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 Environment: Freshwater Stream/River Receiving Water: Rib **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 10m	A12NE (E)	805	2	536300 229601
7	**Discharge Consents** Operator: Spring Dell Management Company Property Type: Undefined Or Other Location: Church Street, Buntingford, , Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1032 Permit Version: 1 Effective Date: 25th July 1986 Issued Date: 25th July 1986 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: River Rib **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A12NE (E)	805	2	536300 229600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** 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 Environment: Freshwater Stream/River Receiving Water: River Rib **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A8NE (E)	811	2	536300 228970
9	**Discharge Consents** 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 Environment: Freshwater Stream/River Receiving Water: The Bourne **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	890	2	536300 228800
9	**Discharge Consents** 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 Environment: Freshwater Stream/River Receiving Water: The Bourne **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	890	2	536300 228800
10	**Discharge Consents** 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: 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 Environment: Freshwater Stream/River 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	A8SW (SE)	897	2	536200 228650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: The Occupier Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Butter Hill Fruit Farm, Throcking Road, Buntingford, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctlu.0428 Permit Version: 1 Effective Date: 27th January 1976 Issued Date: 27th January 1976 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Not Supplied **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A19SW (N)	916	2	535320 230460
12	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Layston, Buntingfordlaystonbuntingford Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1316 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Rib **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	944	2	536300 229900
12	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Layston, Buntingfordlaystonbuntingford Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1316 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 Environment: Freshwater Stream/River Receiving Water: Rib **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	944	2	536300 229900
13	**Local Authority Pollution Prevention and Controls** 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	A11NE (E)	80	3	535602 229388
14	**Local Authority Pollution Prevention and Controls** 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	A12NW (E)	698	3	536202 229555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Local Authority Pollution Prevention and Controls** 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	A12SE (E)	805	3	536352 229208
	Nearest Surface Water Feature	A11SW (E)	7	-	535534 229248
16	**Pollution Incidents to Controlled Waters** 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	A12SE (E)	750	2	536300 229300
17	**Pollution Incidents to Controlled Waters** 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	A12NE (E)	759	2	536300 229400
18	**Pollution Incidents to Controlled Waters** 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	A12NE (E)	778	2	536300 229500
19	**Pollution Incidents to Controlled Waters** 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	A12NE (E)	803	2	536300 229595
20	**Pollution Incidents to Controlled Waters** 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	A12NE (E)	858	2	536400 229400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Pollution Incidents to Controlled Waters** 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	A3NE (S)	927	2	535600 228300
22	**Pollution Incidents to Controlled Waters** 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	A8SW (SE)	930	2	536200 228600
23	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 20th September 1997 Incident Reference: THNE1997029642 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	A12NE (E)	934	2	536400 229700
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: BUNTINGFORD Authority: Environment Agency, Thames Region Pollutant: Agricultural: General Note: Confirmed As A Pollution Incident Incident Date: 17th May 1994 Incident Reference: NE940331 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	A16SE (NE)	935	2	536250 229950
25	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Ely District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Ditch Tributary Of Lode Incident Date: 16th August 1992 Incident Reference: 1800 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (N)	973	2	535400 230500
	River Quality Name: Rib GQA Grade: River Quality C Reach: Buntingford - Westmill Estimated Distance (km): 2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8SE (SE)	961	2	536282 228652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 20th December 2015 Incident Reference: 1395661 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural: Silage Liquor	A9SW (W)	772	2	534189 229145
27	**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	A7SE (SE)	788	2	535863 228519
	Water Abstractions Operator: Mr W Murchie Licence Number: 29/38/04/0015 Permit Version: 100 Location: Borehole At Lower Farm, Throcking, Buntingford, Herts Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1659 Details: Lower Farm, Throcking, Hbuntingford, Herts Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	1182	2	534400 230600
	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	A10SE (W)	0	4	535000 229377
	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: High	A10SE (S)	0	4	535213 229377

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: High	A11SW (SE)	0	4	535416 229283
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No 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	A10SE (W)	0	4	534966 229306
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A10SE (W)	0	4	535000 229377
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A10SE (S)	0	4	535213 229377
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A10SE (W)	0	4	535000 229377
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A10SE (S)	0	4	535213 229377
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (SE)	0	4	535416 229283
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A10SE (W)	0	4	535000 229377
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A10SE (S)	0	4	535213 229377
28	**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.	A10SE (S)	0	2	535213 229377
	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	A10SE (W)	18	2	534915 229350
	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	A10SE (W)	18	2	534930 229275
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
29	**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	A11SW (E)	7	5	535534 229248
30	**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	A11SE (E)	7	5	535554 229274
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 421.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A10SE (W)	17	5	534902 229282
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A10NW (W)	21	5	534861 229500
33	**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	A11SE (E)	24	5	535573 229290
34	**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	A11SE (E)	29	5	535578 229294
35	**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	A10NW (W)	73	5	534809 229511
36	**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	A11NE (E)	173	5	535691 229420
37	**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	A11NE (E)	190	5	535700 229437

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**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	A11NE (E)	190	5	535700 229437
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A10SE (SW)	200	5	534941 229114
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 338.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A10SE (SW)	202	5	534947 229096
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A6NE (S)	378	5	535134 228819
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 214.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A6NE (S)	380	5	535136 228817
43	**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	A7NE (SE)	445	5	535682 228812
44	**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	A7NE (SE)	447	5	535686 228813
45	**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	A7NE (SE)	449	5	535693 228814
46	**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	A7NE (SE)	459	5	535723 228817

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**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	A7NE (SE)	460	5	535726 228817
48	**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	A7NE (SE)	462	5	535731 228818
49	**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	A7NE (SE)	469	5	535749 228820
50	**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	A7NE (SE)	471	5	535752 228820
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 340.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A13SE (NW)	522	5	534399 229718
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (NW)	522	5	534399 229718
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A7SW (S)	535	5	535297 228675
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A7SW (S)	537	5	535300 228673
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A7SW (S)	547	5	535311 228662

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A7SW (S)	550	5	535315 228659
57	**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	A7SW (S)	559	5	535325 228650
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (NW)	626	5	534360 229866
59	**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	A12NW (E)	627	5	536168 229388
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 418.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (NW)	629	5	534361 229872
61	**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	A12NW (E)	633	5	536175 229380
62	**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	A7SW (S)	633	5	535401 228578
63	**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	A8NW (SE)	673	5	536063 228840
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SE (W)	678	5	534230 229299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 551.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A12SE (E)	693	5	536236 229175
66	**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	A12SE (E)	702	5	536252 229296
67	**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	A12SE (E)	703	5	536254 229290
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (E)	704	5	536255 229285
69	**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	A12SE (E)	715	5	536265 229255
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 331.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Rib Catchment Name: Thames Primacy: 1	A12SE (E)	722	5	536272 229252
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	732	5	534194 229236
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	737	5	534191 229231
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 384.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NW (N)	745	5	535464 230245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	788	5	534158 229173
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	793	5	534155 229168
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	796	5	534180 229105
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (W)	797	5	534153 229164
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A5NE (SW)	797	5	534265 228964
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A9SW (W)	797	5	534185 229098
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A5NE (SW)	807	5	534268 228958
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 277.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A5NE (SW)	808	5	534271 228951
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A9NW (W)	828	5	534066 229665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 429.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Thistley Vale Brook Catchment Name: Thames Primacy: 1	A9NW (W)	832	5	534062 229663
84	**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	A12NE (E)	859	5	536342 229644
85	**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	A12NE (E)	870	5	536393 229507
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (NE)	876	5	535837 230205
87	**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	A8NE (SE)	878	5	536328 228873
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (NE)	879	5	535842 230205
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 505.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A5SE (SW)	881	5	534393 228703
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A5NE (SW)	881	5	534389 228709
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NE (NE)	903	5	535881 230205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 472.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	904	5	535217 228294
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NW (NE)	915	5	535898 230205
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	931	5	535439 228281
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	931	5	535443 228282
96	**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	A8NE (SE)	936	5	536369 228826
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	937	5	535471 228278
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	938	5	535474 228277
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	945	5	535510 228273
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NW (S)	945	5	535515 228273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**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	A2NE (S)	946	5	535020 228256
102	**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	A2NE (S)	950	5	534997 228254
103	**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	A2NE (S)	951	5	534990 228254
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NE (S)	952	5	535577 228272
105	**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	A2NE (S)	953	5	534983 228254
106	**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	A3NE (SE)	957	5	535776 228304
107	**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	A3NE (SE)	958	5	535780 228304
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A2NW (SW)	959	5	534682 228345
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 243.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A2NW (SW)	961	5	534684 228341

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**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	A3NE (SE)	962	5	535814 228311
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NE (S)	965	5	535608 228263
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NE (S)	967	5	535612 228261
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (NW)	971	5	534269 230274
114	**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	A2NE (S)	972	5	534925 228244
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A2NE (S)	972	5	534925 228244
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Aspenden Brook Catchment Name: Thames Primacy: 1	A2NE (S)	974	5	534916 228244
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 256.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (NW)	976	5	534266 230278
118	**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	A3NE (SE)	977	5	535766 228280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NE (S)	984	5	535668 228251
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A3NE (S)	986	5	535674 228250
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A16NW (NE)	998	5	535998 230243

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Historical Landfill Sites** Licence Holder: A Monk and Company Plc Location: Buntingford, Hertfordshire Name: Throcking Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD12177 First Input Date: 16th June 1986 Last Input Date: 29th January 1987 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1900/0371 BGS Ref: Not Supplied Other Ref: 86/201	A15NW (N)	563	2	535390 230076
123	**Licensed Waste Management Facilities (Locations)** 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	A11NW (NE)	101	2	535397 229557
124	**Licensed Waste Management Facilities (Locations)** Licence Number: 101418 Location: Buttermilk Hall Farm, Baldock Road, Buntingford, Hertfordshire, SG9 9RH Operator Name: Mr Martin Keith Waller & Mr Colin Young Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: HCI Waste TS + treatment **Licence Status: Modified** Issued: 28th June 2010 Last Modified: 16th February 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (W)	739	2	534160 229330
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	6	535213 229377
	Local Authority Landfill Coverage Name: East Hertfordshire District Council - Has supplied landfill data		0	3	535213 229377
125	**Local Authority Recorded Landfill Sites** Location: A.Monk & Co, Throcking Lane, Cottered Reference: 4 Authority: East Hertfordshire District Council, Environmental Health Department **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A15NW (N)	755	3	535300 230300
126	**Local Authority Recorded Landfill Sites** Location: Bridge End, Buntingford Reference: 3 Authority: East Hertfordshire District Council, Environmental Health Department **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A16SE (NE)	911	3	536255 229905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A16SW (NE)	834	-	536220 229822
128	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A6SW (SW)	838	-	534654 228501
129	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A2NE (S)	843	-	535073 228354
130	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	A6SW (SW)	888	-	534618 228466
131	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A11NE (E)	122	-	535636 229414
132	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A11NW (NE)	136	-	535509 229519
133	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1948	A11NW (NE)	194	-	535446 229641
134	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A12SW (E)	351	-	535893 229356
135	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A9NE (W)	528	-	534356 229440
136	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A12NW (E)	531	-	536050 229481
137	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A7SW (S)	626	-	535219 228578
138	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A9NE (W)	640	-	534243 229472
139	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A9NE (W)	649	-	534242 229379
140	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A12SW (E)	656	-	536202 229357
141	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A12SE (E)	859	-	536406 229210
142	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A12SE (E)	955	-	536500 229185
143	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A3NW (S)	974	-	535400 228237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	**Registered Landfill Sites** Licence Holder: A Monk & Co Plc Licence Reference: 86/201 Site Location: Throcking Lane, Buntingford, Hertfordshire Licence Easting: 535400 Licence Northing: 230300 Operator Location: Po Box 43, Green Lanes, Padgate, Warrington, Cheshire Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Waste produced/controlled by licence holder Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Soil,Subsoil,Excav. Buntingford Bypass	A15NW (N)	780	2	535400 230300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A10SE (S)	0	1	535213 229377
	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	A10SE (S)	0	1	535213 229377
	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	A10SE (W)	24	1	534917 229308
	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	A14SE (N)	440	1	535213 230000
	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	A12SW (E)	450	1	536000 229377
	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)	691	1	536245 229339
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (N)	701	1	535485 230193

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 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	A15NE (NE)	817	1	535742 230199
	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	A12SE (E)	820	1	536373 229306
	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	A8NE (E)	858	1	536348 228963
	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	A15NE (NE)	908	1	535863 230226
	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	A16NW (NE)	922	1	536007 230149
145	**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	A6NE (S)	254	1	535136 228942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**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	A6SW (SW)	851	1	534649 228489
146	**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	A6SW (SW)	881	1	534623 228470
147	**BGS Recorded Mineral Sites** Site Name: Newtown Gravel Pit Location: Buntingford, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166747 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	A16SE (NE)	872	1	536239 229861
148	**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	A2NE (S)	879	1	535019 228323
	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	A10SE (S)	0	1	535213 229377
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	18	1	535558 229383
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	534980 229313
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	88	1	535000 229239
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	91	1	534879 229265
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	122	1	535569 229117
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	157	1	535278 229689
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	534966 229306
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	120	1	535000 229176
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	534966 229306
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	120	1	535000 229176
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	535000 229377
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	535213 229377
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	534966 229306
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	535416 229283

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	24	1	534917 229308
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	91	1	534855 229322
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	120	1	535000 229176
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	208	1	535000 229028
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	535375 229275
	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	A10SE (S)	0	1	535213 229377
	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	A10SE (W)	0	1	535000 229377
	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	A11SW (SE)	0	1	535375 229275
	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	A10SE (S)	0	1	535213 229377
	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	A10SE (W)	0	1	535000 229377

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	**Contemporary Trade Directory Entries** 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	A11NW (NE)	68	-	535418 229504
150	**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	A11NE (E)	85	-	535608 229388
150	**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	A11NE (E)	86	-	535609 229389
150	**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	A11NE (E)	86	-	535609 229389
150	**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	A11NE (E)	87	-	535609 229389
150	**Contemporary Trade Directory Entries** 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	A11NE (E)	89	-	535611 229391
150	**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	A11NE (E)	89	-	535612 229388
150	**Contemporary Trade Directory Entries** Name: European Cars Location: Baldock Road, Buntingford, SG9 9DL Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NE (E)	127	-	535641 229416
150	**Contemporary Trade Directory Entries** 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	A11NE (E)	128	-	535641 229415
151	**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	A9NE (W)	349	-	534537 229439
152	**Contemporary Trade Directory Entries** 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	A12NW (E)	386	-	535923 229385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	**Contemporary Trade Directory Entries** Name: Hardcastle Shutters Location: CASSIOBURY, BALDOCK ROAD, BUNTINGFORD, SG9 9DJ Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (E)	412	-	535950 229381
153	**Contemporary Trade Directory Entries** 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	A12NW (E)	523	-	536064 229378
154	**Contemporary Trade Directory Entries** Name: Buntingford Auto Service Location: 241, Monks Walk, Buntingford, Hertfordshire, SG9 9DZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (E)	588	-	536135 229348
155	**Contemporary Trade Directory Entries** Name: Planet Visual Systems Location: 7, Freman Drive, Buntingford, Hertfordshire, SG9 9TD Classification: Office Equipment Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	611	-	535938 229811
156	**Contemporary Trade Directory Entries** Name: T & C Services (1990) Ltd Location: Little Meadow, Baldock Road, Buntingford, Hertfordshire, SG9 9RH Classification: Lifting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (W)	614	-	534269 229472
157	**Contemporary Trade Directory Entries** Name: J & M Fire Location: 199, Monks Walk, Buntingford, Hertfordshire, SG9 9DX Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (E)	643	-	536192 229240
158	**Contemporary Trade Directory Entries** Name: Buntingford Mowers Location: Unit 22, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	646	-	535792 229955
158	**Contemporary Trade Directory Entries** Name: Buntingford Electrical Location: Unit 23, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Transformer Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	650	-	535787 229961
158	**Contemporary Trade Directory Entries** Name: Buntingford Engine Services Location: Unit 23, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Engine Rebuilding & Reconditioning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	650	-	535787 229961
158	**Contemporary Trade Directory Entries** Name: C N C 2010 Location: Unit 25, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	664	-	535762 229991
158	**Contemporary Trade Directory Entries** Name: C J Cooke Location: Unit 31, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	664	-	535762 229991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**Contemporary Trade Directory Entries** Name: Coleman Engineering Location: Unit 25/28, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Plastics - Injection Moulding **Status:** **Inactive** Positional Accuracy: Manually positioned to the address or location	A15SE (NE)	664	-	535762 229991
158	**Contemporary Trade Directory Entries** Name: Caron Engineering Services Ltd Location: Unit 30, Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Classification: Engineers - General **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	664	-	535762 229991
158	**Contemporary Trade Directory Entries** Name: Standard Products Mould & Tool Co Ltd Location: Unit 25/28, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Tool Design, Manufacturers & Makers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	664	-	535762 229991
158	**Contemporary Trade Directory Entries** Name: Precision Tool & Mould Location: Unit 25-28, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Precision Engineers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	664	-	535762 229991
158	**Contemporary Trade Directory Entries** Name: The Paint Shop Location: Park Farm Ind Est,Ermine St, Buntingford, Hertfordshire, SG9 9AZ Classification: Painting & Decorating Supplies **Status:** **Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15SE (NE)	686	-	535769 230014
158	**Contemporary Trade Directory Entries** Name: P M C Polythene Ltd Location: UNIT 35-38, PARK FARM INDUSTRIAL ESTATE, ERMINE STREET, BUNTINGFORD, SG9 9AZ Classification: Polythene & Plastic Sheeting Supplies **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	698	-	535774 230025
159	**Contemporary Trade Directory Entries** Name: Nationwide Drainage Supplies Location: Buttermilk Hall, Baldock Road, Buntingford, Hertfordshire, SG9 9RH Classification: Drain & Sewer Clearance - Equipment **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (W)	650	-	534236 229423
159	**Contemporary Trade Directory Entries** Name: Reith'S Handcrafted Furniture Location: BUTTERMILK HALL FARM, BALDOCK ROAD, BUNTINGFORD, SG9 9RH Classification: Cabinet Makers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A9NE (W)	680	-	534209 229393
159	**Contemporary Trade Directory Entries** Name: Nationwide Supplies Location: ECOTECH HOUSE, BUTTERMILK HALL FARM, BALDOCK ROAD, BUNTINGFORD, SG9 9RH Classification: Builders' Merchants **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A9NE (W)	684	-	534205 229390
160	**Contemporary Trade Directory Entries** Name: Sharpe Print Location: Unit 14-15, Park Farm Industrial Estate, Ermine Street, BUNTINGFORD, Hertfordshire, SG9 9AZ Classification: Printers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	667	-	535835 229955
160	**Contemporary Trade Directory Entries** Name: S J Tokely Ltd Location: Unit 12-13, Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Classification: Garage Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	678	-	535850 229960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	**Contemporary Trade Directory Entries** Name: John Mossey Location: Unit 8, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Antiques - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	714	-	535897 229972
161	**Contemporary Trade Directory Entries** 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	A12NW (E)	668	-	536200 229440
162	**Contemporary Trade Directory Entries** Name: Cornwell Services Location: 79a High St, Buntingford, Hertfordshire, SG9 9AE Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NW (E)	682	-	536145 229651
162	**Contemporary Trade Directory Entries** Name: Apex Swimming Pools Location: 68, High Street, Buntingford, Hertfordshire, SG9 9AH Classification: Swimming Pool Contractors, Repairers & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (E)	716	-	536162 229689
163	**Contemporary Trade Directory Entries** Name: Minerva Circuits Ltd Location: 115, High Street, Buntingford, Hertfordshire, SG9 9AF Classification: Printed Circuit Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	687	-	536066 229783
164	**Contemporary Trade Directory Entries** Name: Ewepack Location: The Manor House, High Street, Buntingford, SG9 9AB Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (E)	701	-	536245 229375
164	**Contemporary Trade Directory Entries** Name: Buntingford Joinery Ltd Location: 6, High Street, Buntingford, Hertfordshire, SG9 9AG Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (E)	749	-	536290 229395
164	**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	A12NE (E)	756	-	536293 229421
165	**Contemporary Trade Directory Entries** Name: Ball Spinning Location: Unit 34, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Metal Spinners **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	701	-	535757 230044
166	**Contemporary Trade Directory Entries** Name: A L S Location: Unit 39a, Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Classification: Computer Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	707	-	535824 230007
166	**Contemporary Trade Directory Entries** Name: G X Blinds Location: Unit 39/C, Park Farm Industrial Estate, Ermine Street, BUNTINGFORD, Hertfordshire, SG9 9AZ Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (NE)	707	-	535824 230007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	**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	A12NW (E)	721	-	536225 229560
168	**Contemporary Trade Directory Entries** Name: Meura Brewery Equipment Ltd Location: Unit 1, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Tanks, Vats & Cisterns **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	743	-	535909 229999
168	**Contemporary Trade Directory Entries** Name: Meura Brewery Equipment Ltd Location: Unit 1-2, Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Classification: Brewery Supplies **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	754	-	535924 230003
168	**Contemporary Trade Directory Entries** Name: First Class Business Solutions Ltd Location: Unit 43-45, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Photocopiers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	772	-	535907 230034
168	**Contemporary Trade Directory Entries** Name: First Class Business Solutions Location: Unit 43-45, Park Farm Industrial Estate, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Office Equipment Manufacturers & Distributors **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	772	-	535907 230034
168	**Contemporary Trade Directory Entries** Name: R J P Royal Location: 5, Ermine Street, Buntingford, Hertfordshire, SG9 9AZ Classification: Commercial Cleaning Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	778	-	535947 230016
169	**Contemporary Trade Directory Entries** Name: Signal Infrared Location: Ermine St, Buntingford, Hertfordshire, SG9 9AZ Classification: Gas Appliances - Sales & Service **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A16SW (NE)	784	-	535996 229988
170	**Contemporary Trade Directory Entries** Name: Matthews Business Machines Location: 16, Honey Lane, Buntingford, Hertfordshire, SG9 9BQ Classification: Office Equipment Servicing & Maintenance **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	833	-	536194 229857
171	**Contemporary Trade Directory Entries** 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	A8NE (E)	842	-	536358 229040
171	**Contemporary Trade Directory Entries** 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	A8NE (E)	879	-	536387 229008
172	**Contemporary Trade Directory Entries** Name: N J E Cleaning Services Location: 4, DOWNHALL LEY, BUNTINGFORD, SG9 9JT Classification: Cleaning Services - Domestic **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	852	-	536388 229124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	**Contemporary Trade Directory Entries** 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	A8NE (SE)	926	-	536307 228746
174	**Contemporary Trade Directory Entries** 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	A8NE (SE)	927	-	536338 228792
174	**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	A8NE (SE)	929	-	536354 228813
174	**Contemporary Trade Directory Entries** Name: T & C Services Ltd Location: Unit 9 The Firs,Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Lifting Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	932	-	536353 228807
174	**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	A8NE (SE)	932	-	536353 228807
174	**Contemporary Trade Directory Entries** Name: R & G Mouldings Location: UNIT 1 THE FIRS, WATERMILL INDUSTRIAL ESTATE, BUNTINGFORD, SG9 9JS Classification: Plastics - Injection Moulding **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	932	-	536353 228807
174	**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	A8NE (SE)	934	-	536357 228810
174	**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	A8NE (SE)	968	-	536370 228766
175	**Contemporary Trade Directory Entries** Name: Graham Tibbals Location: 9, Snells Mead, Buntingford, Hertfordshire, SG9 9JF Classification: Furniture - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (E)	928	-	536461 229103
176	**Contemporary Trade Directory Entries** 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	A8NE (E)	944	-	536420 228912
176	**Contemporary Trade Directory Entries** 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	A8NE (E)	980	-	536445 228881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	**Contemporary Trade Directory Entries** 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	A8NE (E)	980	-	536445 228881
176	**Contemporary Trade Directory Entries** 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	A8NE (E)	994	-	536463 228886
176	**Contemporary Trade Directory Entries** 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	A8NE (E)	998	-	536472 228897
177	**Contemporary Trade Directory Entries** 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	A8SE (SE)	953	-	536297 228686
177	**Contemporary Trade Directory Entries** 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	A8NE (SE)	961	-	536328 228716
177	**Contemporary Trade Directory Entries** 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	A8SE (SE)	972	-	536318 228684
177	**Contemporary Trade Directory Entries** 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	A8SE (SE)	991	-	536343 228685
177	**Contemporary Trade Directory Entries** 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	A8SE (SE)	991	-	536343 228685
177	**Contemporary Trade Directory Entries** 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	A8SE (SE)	991	-	536343 228685
177	**Contemporary Trade Directory Entries** Name: Alpha Ironwork Ltd Location: 3, WATERMILL INDUSTRIAL ESTATE, ASPENDEN ROAD, BUNTINGFORD, SG9 9JS Classification: Gate Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (SE)	991	-	536343 228685
177	**Contemporary Trade Directory Entries** Name: Print Link Location: Unit P5, Watermill Industrial Estate, Buntingford, Hertfordshire, SG9 9JS Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (SE)	991	-	536343 228685

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Contemporary Trade Directory Entries** Name: Wellstone Location: 3, Railway Cottages, Aspenden Road, Buntingford, Hertfordshire, SG9 9JB Classification: Cabinet Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	962	-	536402 228832
179	**Contemporary Trade Directory Entries** Name: Executive Carpet Care Location: 55, Vicarage Road, Buntingford, Hertfordshire, SG9 9BA Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A16SE (NE)	973	-	536270 229986
180	**Contemporary Trade Directory Entries** Name: Max Hodges Location: 31, Archers, Buntingford, Hertfordshire, SG9 9HE Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (E)	980	-	536494 229559
181	**Contemporary Trade Directory Entries** Name: Introl Pest Control Location: 51, Snells Mead, Buntingford, Hertfordshire, SG9 9JH Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (E)	985	-	536524 229134
182	**Contemporary Trade Directory Entries** Name: Blakeney Motorsport Ltd Location: UNIT F, WATERMILL INDUSTRIAL ESTATE, ASPENDEN ROAD, BUNTINGFORD, SG9 9JS Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (SE)	986	-	536269 228594
183	**Fuel Station Entries** Name: Mfg Howe Green Location: Baldock Road , , Buntingford, Hertfordshire, SG9 9EG Brand: Esso Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A11NE (E)	89	-	535611 229390
184	**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	A12SE (E)	825	-	536374 229230
185	**Points of Interest - Commercial Services** Name: Urbaser Location: Buntingford Business Park, Baldock Road, Buntingford, SG9 9ER Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A11NW (NE)	64	7	535415 229502
186	**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	A11NE (E)	89	7	535611 229390
186	**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	A11NE (E)	89	7	535611 229391
186	**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	A11NE (E)	89	7	535611 229390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	**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	A11NE (E)	105	7	535620 229407
186	**Points of Interest - Commercial Services** Name: European Cars Location: Adam and Eve Service Station, Baldock Road, Buntingford, SG9 9DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11NE (E)	126	7	535640 229415
187	**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	A9NE (W)	350	7	534536 229439
188	**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	A12SW (E)	588	7	536135 229348
189	**Points of Interest - Commercial Services** Name: Buntingford Engine Services Location: 23 Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (NE)	649	7	535787 229961
189	**Points of Interest - Commercial Services** Name: Buntingford Engine Services Location: Unit 23 Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (NE)	650	7	535787 229961
189	**Points of Interest - Commercial Services** Name: S J Tokely Ltd Location: 13 Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (NE)	677	7	535849 229959
190	**Points of Interest - Commercial Services** Name: Ewepack Location: 64 High Street, Buntingford, SG9 9AH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NW (E)	702	7	536161 229664
191	**Points of Interest - Commercial Services** Name: S J Tokely Location: Unit 3 Park Farm Industrial Estate, Ermine Street, Buntingford, SG9 9AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (NE)	725	7	535887 229992
192	**Points of Interest - Commercial Services** Name: Trimline Systems Location: 16 Porters Close, Buntingford, SG9 9BW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16SW (NE)	756	7	536138 229802
193	**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	A8NE (SE)	929	7	536338 228787
193	**Points of Interest - Commercial Services** Name: G P Nunn Autos Location: Watermill Industrial Estate, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	932	7	536353 228806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	**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	A8NE (SE)	968	7	536370 228766
194	**Points of Interest - Commercial Services** Name: Introl Pest Control Location: 51 Snells Mead, Buntingford, SG9 9JH Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SE (E)	985	7	536524 229134
195	**Points of Interest - Commercial Services** Name: Blakeney Motorsport Ltd Location: Unit F Watermill Industrial Estate, Aspenden Road, Buntingford, SG9 9JS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (SE)	986	7	536269 228594
196	**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	A11NW (NE)	74	7	535359 229559
197	**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	A15SE (NE)	662	7	535812 229962
197	**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	A15SE (NE)	668	7	535821 229965
198	**Points of Interest - Manufacturing and Production** Name: Buttermilk Farm - Anaerobic Digestion (BEIS) Location: Baldock Road, Buntingford, SG9 9RH Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A9NE (W)	680	7	534209 229393
199	**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	A16NW (NE)	794	7	535916 230055
200	**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	A8NE (SE)	950	7	536320 228723
200	**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	A8SE (SE)	954	7	536291 228675
200	**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	A8SE (SE)	961	7	536298 228674
200	**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	A8NE (SE)	965	7	536328 228709

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	**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	A8SE (SE)	981	7	536334 228690
200	**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	A8SE (SE)	985	7	536338 228689
201	**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	A12SE (E)	973	7	536523 229316
202	**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	A8NE (E)	994	7	536455 228868
203	**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	A11NW (NE)	65	7	535415 229503
204	**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	A11NE (E)	85	7	535608 229388
204	**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	A11NE (E)	87	7	535609 229389
204	**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	A11NE (E)	87	7	535609 229389
204	**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	A11NE (E)	88	7	535611 229388
204	**Points of Interest - Public Infrastructure** Name: Howe Green Garage Location: Baldrock Road, Buntingford, SG9 9EG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A11NE (E)	89	7	535611 229391
204	**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	A11NE (E)	89	7	535611 229391
204	**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	A11NE (E)	89	7	535611 229390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	**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	A11NE (E)	89	7	535611 229390
205	**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	A12SW (E)	471	7	536011 229377
205	**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	A12SW (E)	471	7	536011 229377
205	**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	A12SW (E)	473	7	536014 229376
206	**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	A12NE (E)	732	7	536266 229434
207	**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	A12SE (E)	860	7	536407 229199
208	**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	A8SW (SE)	906	7	536178 228612
208	**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	A8SW (SE)	912	7	536136 228561
209	**Points of Interest - Recreational and Environmental** Name: Skatepark Location: SG9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A15SE (NE)	476	7	535811 229742
209	**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	A15SE (NE)	493	7	535846 229735
209	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A15SE (NE)	495	7	535849 229735
210	**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	A12SW (E)	666	7	536178 229056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	**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	A15NE (NE)	929	7	535663 230369
212	**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	A12SE (E)	964	7	536514 229264

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	**Nitrate Vulnerable Zones** Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A10SE (S)	0	4	535213 229377
214	**Nitrate Vulnerable Zones** Name: Buntingford Chalk Description: Groundwater Source: Environment Agency, Head Office	A10SE (S)	0	4	535213 229377

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
East Hertfordshire District Council - Environmental Health Department	January 2013	Annual Rolling Update
Environment Agency - Head Office	November 2023	Annually
North Hertfordshire District Council - Environmental Health Department	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Thames Region	April 2024	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	October 2023	Quarterly
Environment Agency - Thames Region	October 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control		
East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
North Hertfordshire District Council - Environmental Health Department	September 2014	Variable
Local Authority Pollution Prevention and Controls		
North Hertfordshire District Council - Environmental Health Department	December 2020	Annual Rolling Update
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
North Hertfordshire District Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	April 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Anglian Region	September 1999	
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	May 2023	As notified
Environment Agency - Head Office	May 2023	Quarterly
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	April 2024	Quarterly
Environment Agency - Thames Region - North East Area	April 2024	Quarterly
Water Abstractions		
Environment Agency - Thames Region	April 2024	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

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	April 2024	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	May 2024	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	May 2024	Quarterly
Environment Agency - Thames Region - North East Area	May 2024	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - North East Thames Area	January 2023	Quarterly
Environment Agency - Thames Region - North East Area	January 2023	Quarterly
Local Authority Landfill Coverage		
East Hertfordshire District Council - Environmental Health Department	February 2003	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2003	Not Applicable
North Hertfordshire District Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
East Hertfordshire District Council - Environmental Health Department	October 2018	
Hertfordshire County Council - Spatial Planning and Economy Unit	October 2018	
North Hertfordshire District Council - Environmental Health Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
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 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
North Hertfordshire District Council	February 2016	Variable
East Hertfordshire District Council	May 2023	Variable
Planning Hazardous Substance Consents		
East Hertfordshire District Council	April 2015	Variable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
North Hertfordshire District Council	February 2016	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	January 2024	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	February 2023	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	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	June 2024	Quarterly
Points of Interest - Education and Health PointX	June 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2024	Quarterly
Points of Interest - Public Infrastructure PointX	June 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt		
East Hertfordshire District Council	February 2024	Quarterly
North Hertfordshire District Council	February 2024	Quarterly
Areas of Unadopted Green Belt		
East Hertfordshire District Council	February 2024	Quarterly
North Hertfordshire District Council	February 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	May 2024	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2023	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	February 2024	Bi-Annually
Marine Nature Reserves		
Natural England	February 2024	Bi-Annually
National Nature Reserves		
Natural England	February 2024	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	April 2024	Bi-Annually
Ramsar Sites		
Natural England	February 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2024	Bi-Annually
Special Areas of Conservation		
Natural England	April 2024	Bi-Annually
Special Protection Areas		
Natural England	April 2024	Bi-Annually

Data Suppliers

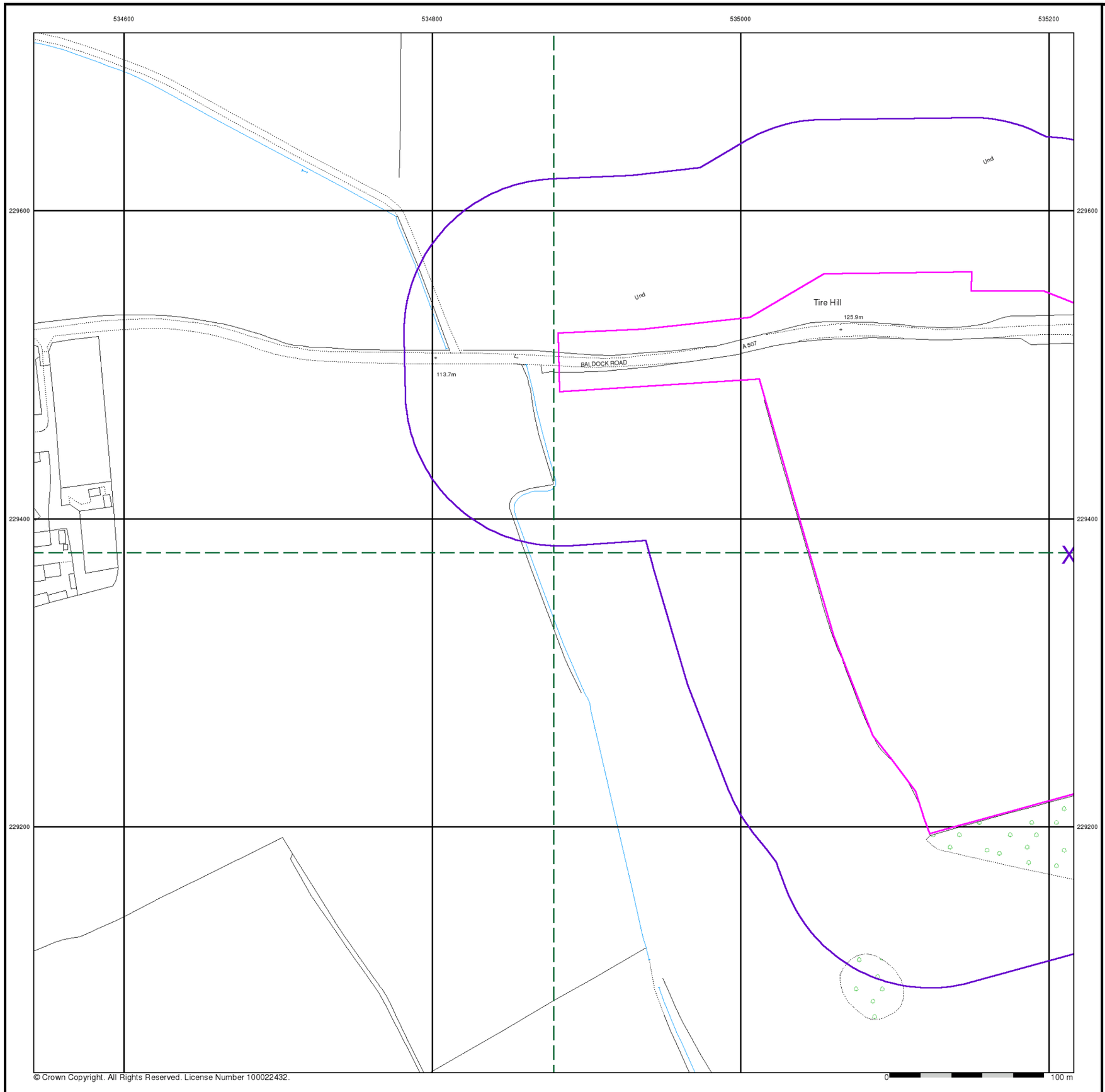
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**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** 5-6 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.



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
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

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

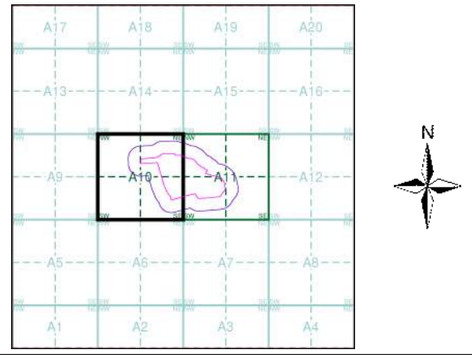
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A10



Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Plot Buffer (m):	100

Site Details

Urbaser Ltd, Unit 1, Buntingford Business Park, Baldock Road, BUNTINGFORD, SG9 9ER

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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
- 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 (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

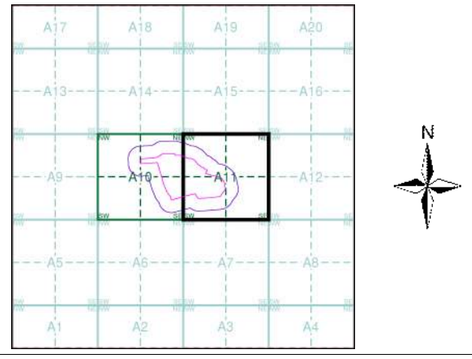
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A11



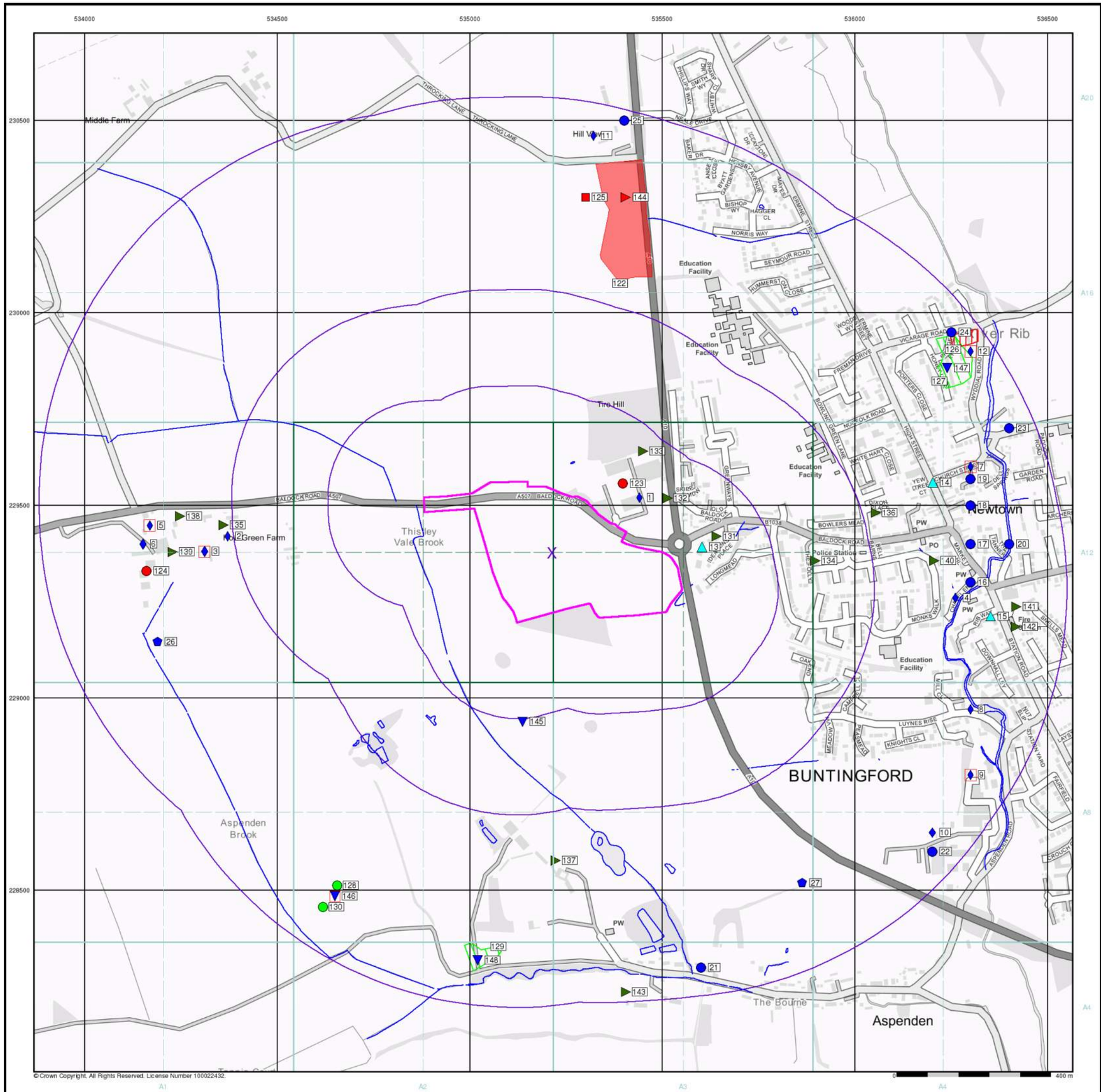
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Plot Buffer (m):	100

Site Details

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Web: www.envirocheck.co.uk



General

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

Agency and Hydrological

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

Hazardous Substances

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

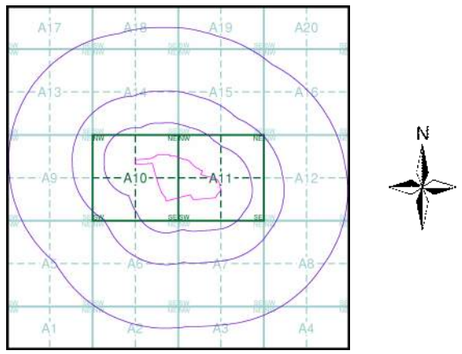
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
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- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



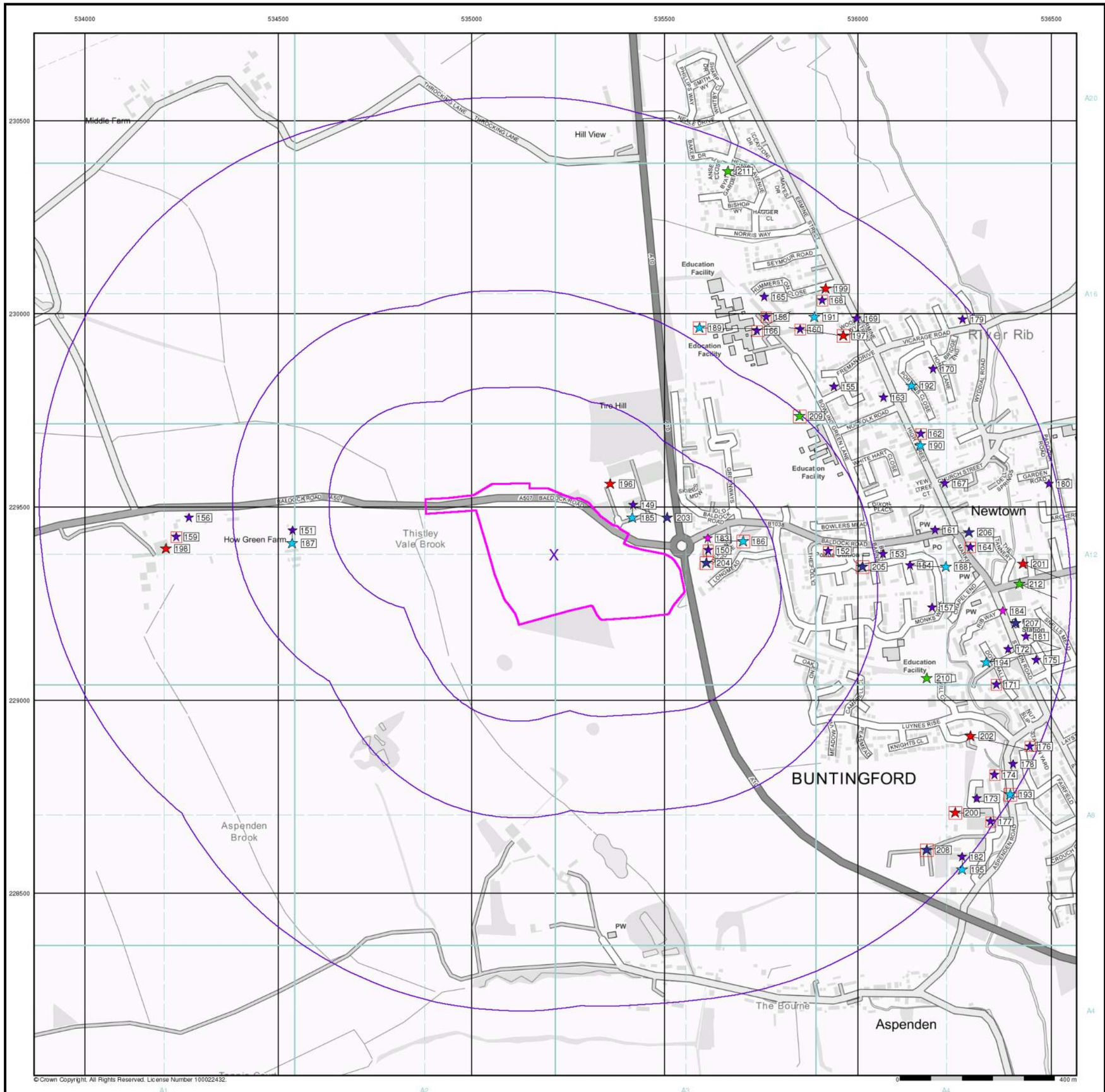
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

Urbaser Ltd, Unit 1, Buntingford Business Park, Baldock Road, BUNTINGFORD, SG9 9ER

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Industrial Land Use Map

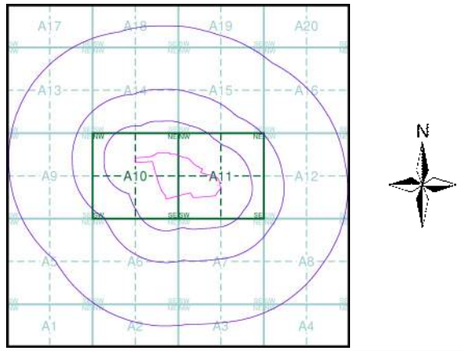
General

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

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Gas Pipeline
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



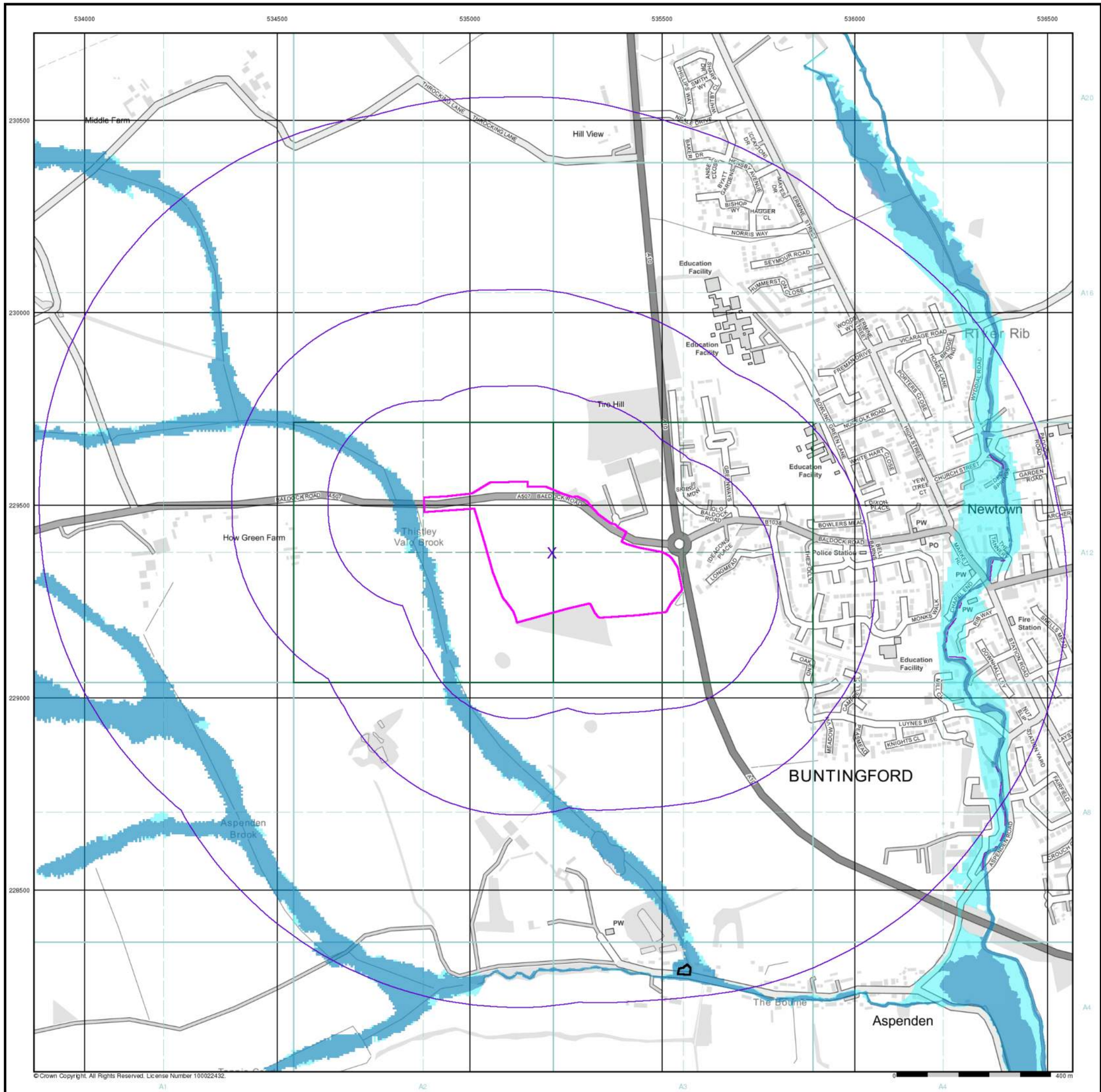
Order Details

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Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
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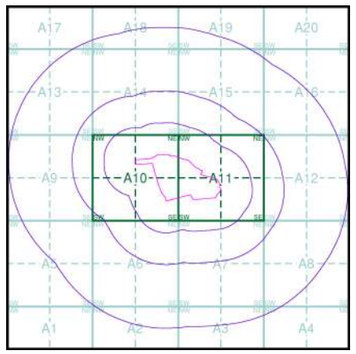
General

- 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



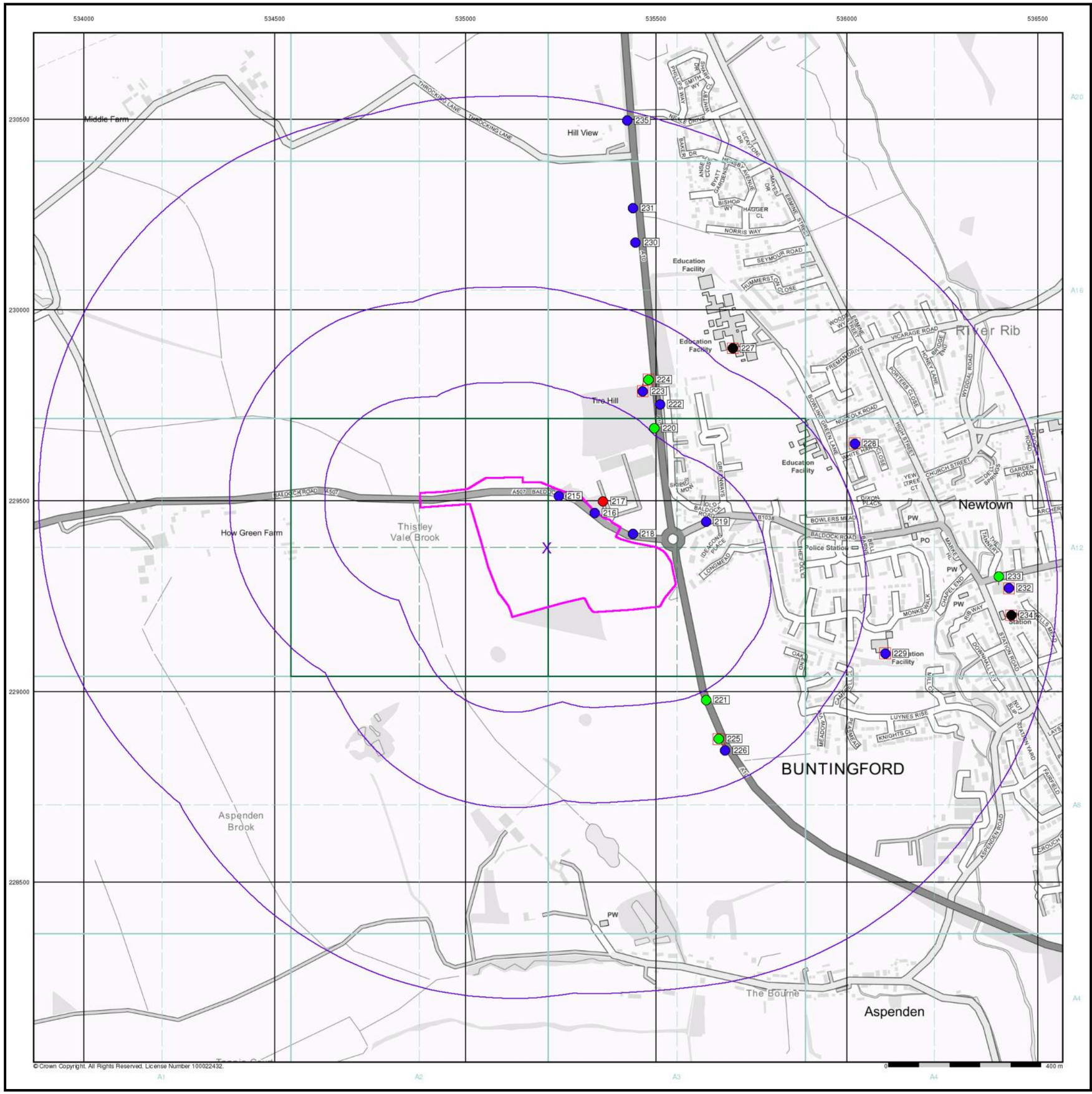
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

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General

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

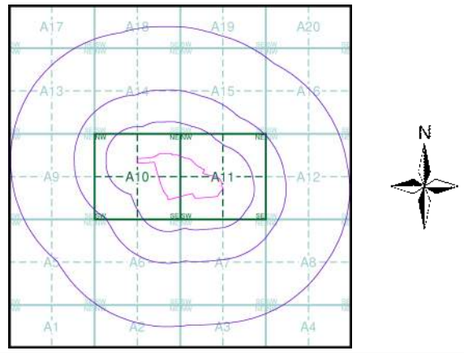
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



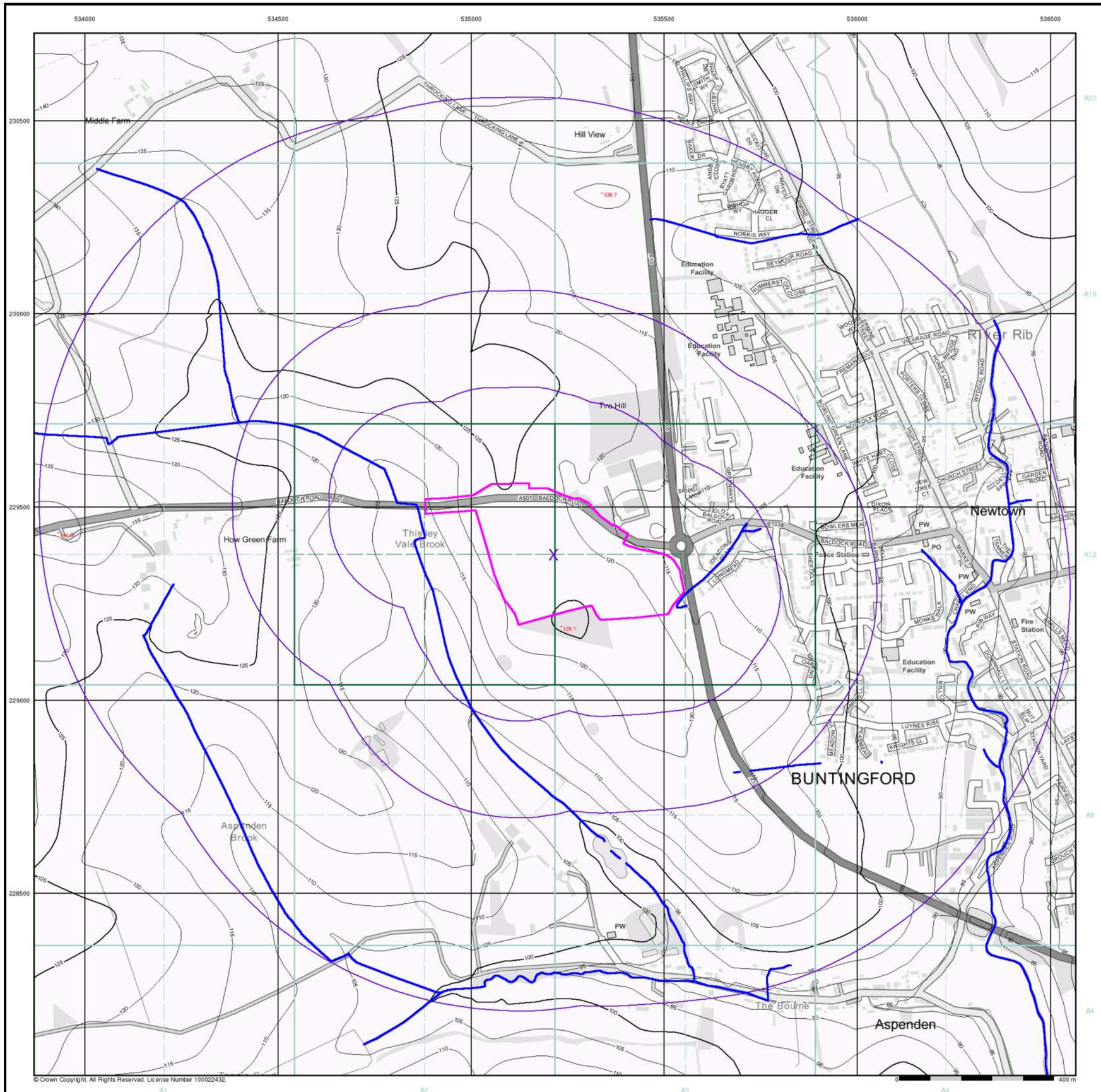
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

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General

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

OS Water Network Data

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

Contours (height in meters)

Standard Contour 105 100 95

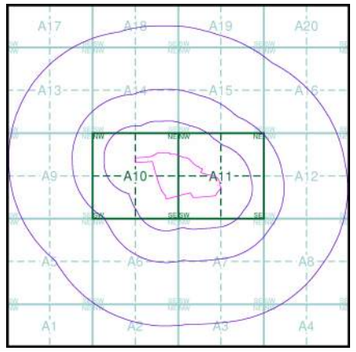
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

OS Water Network Map - Slice A



Order Details

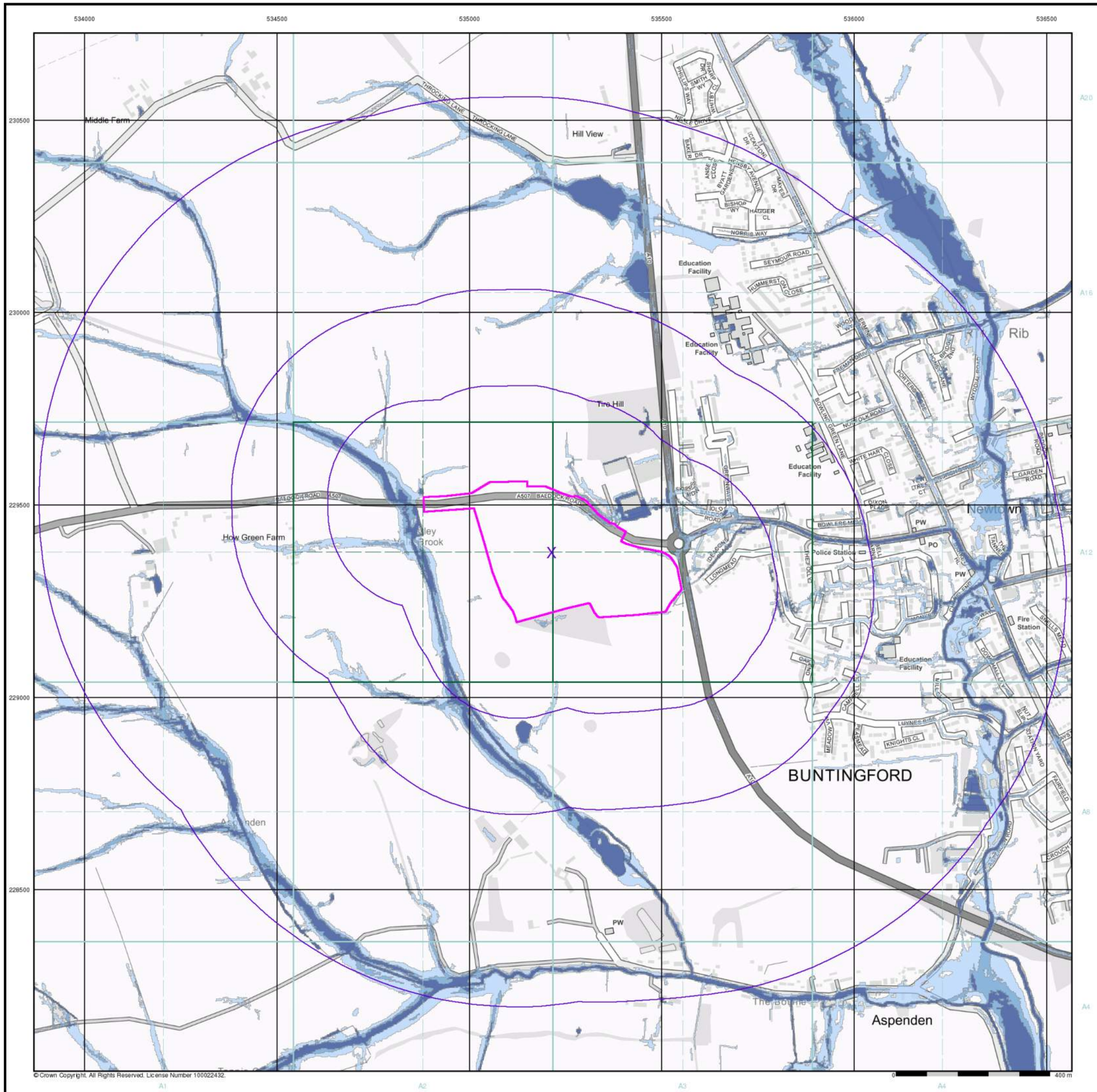
Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

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General

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

Risk of Flooding from Surface Water

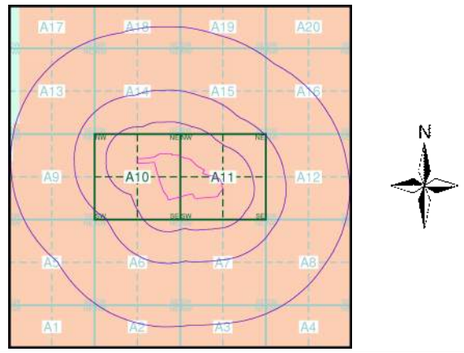
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



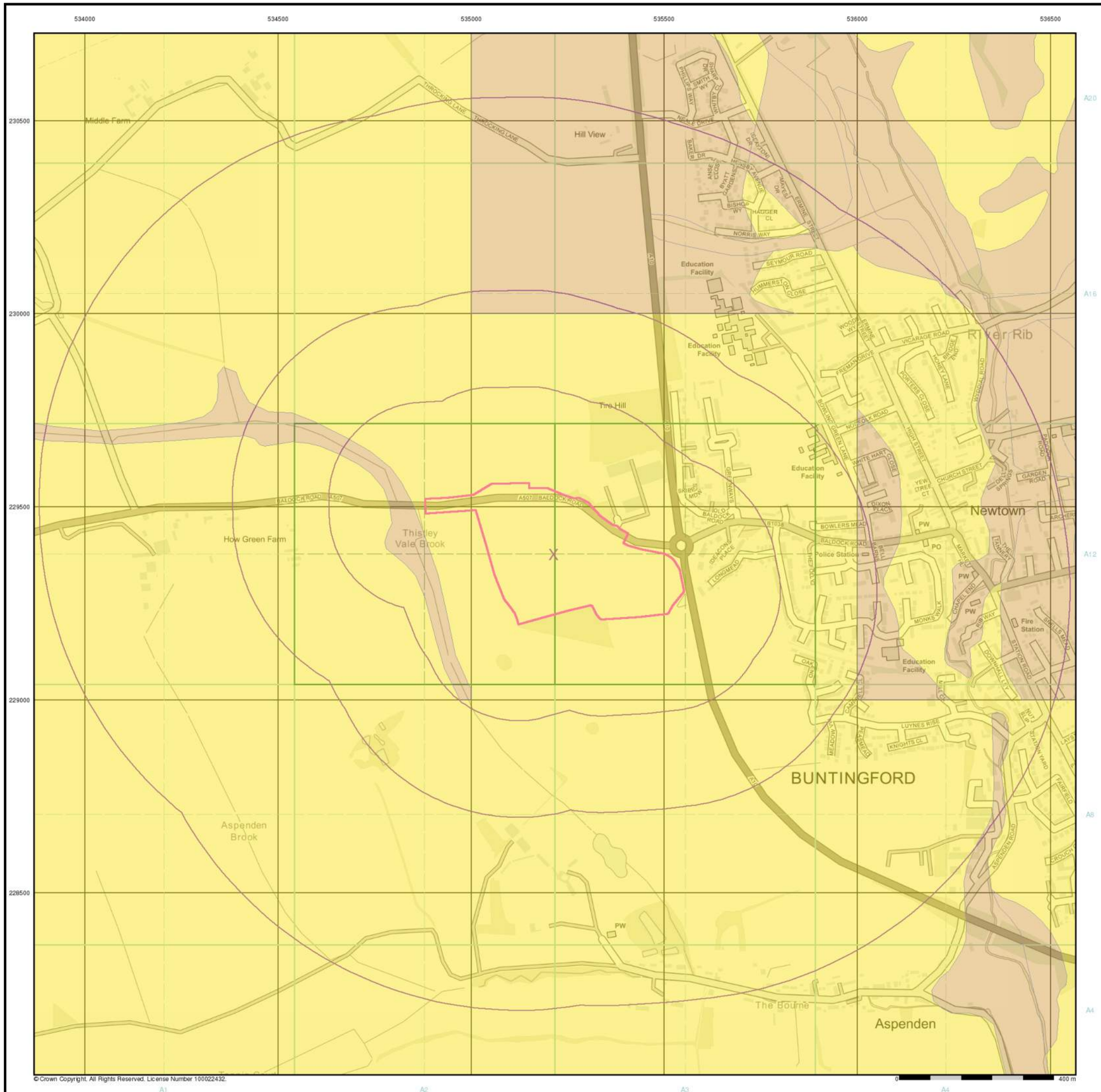
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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Site Details

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General

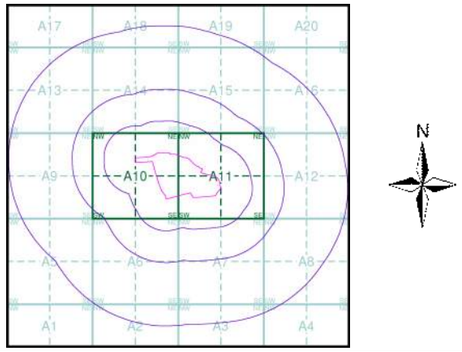
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



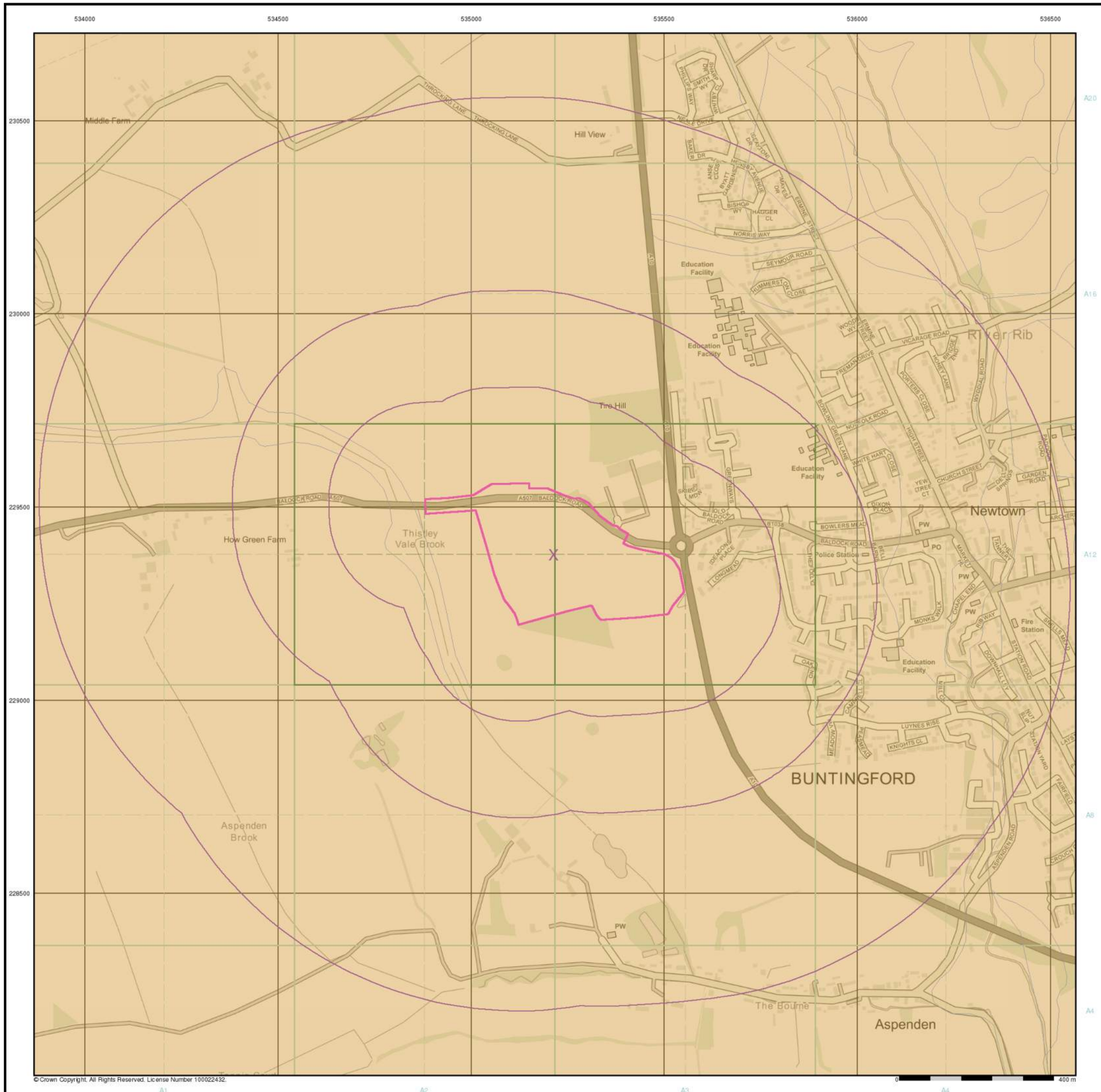
Order Details

Order Details:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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Site Details

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General

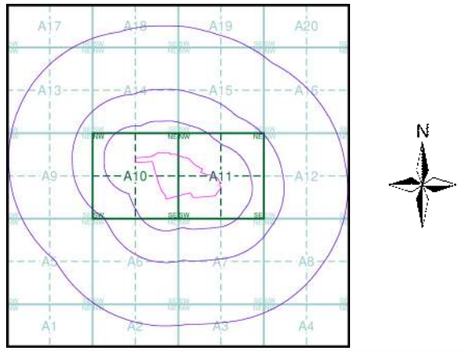
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



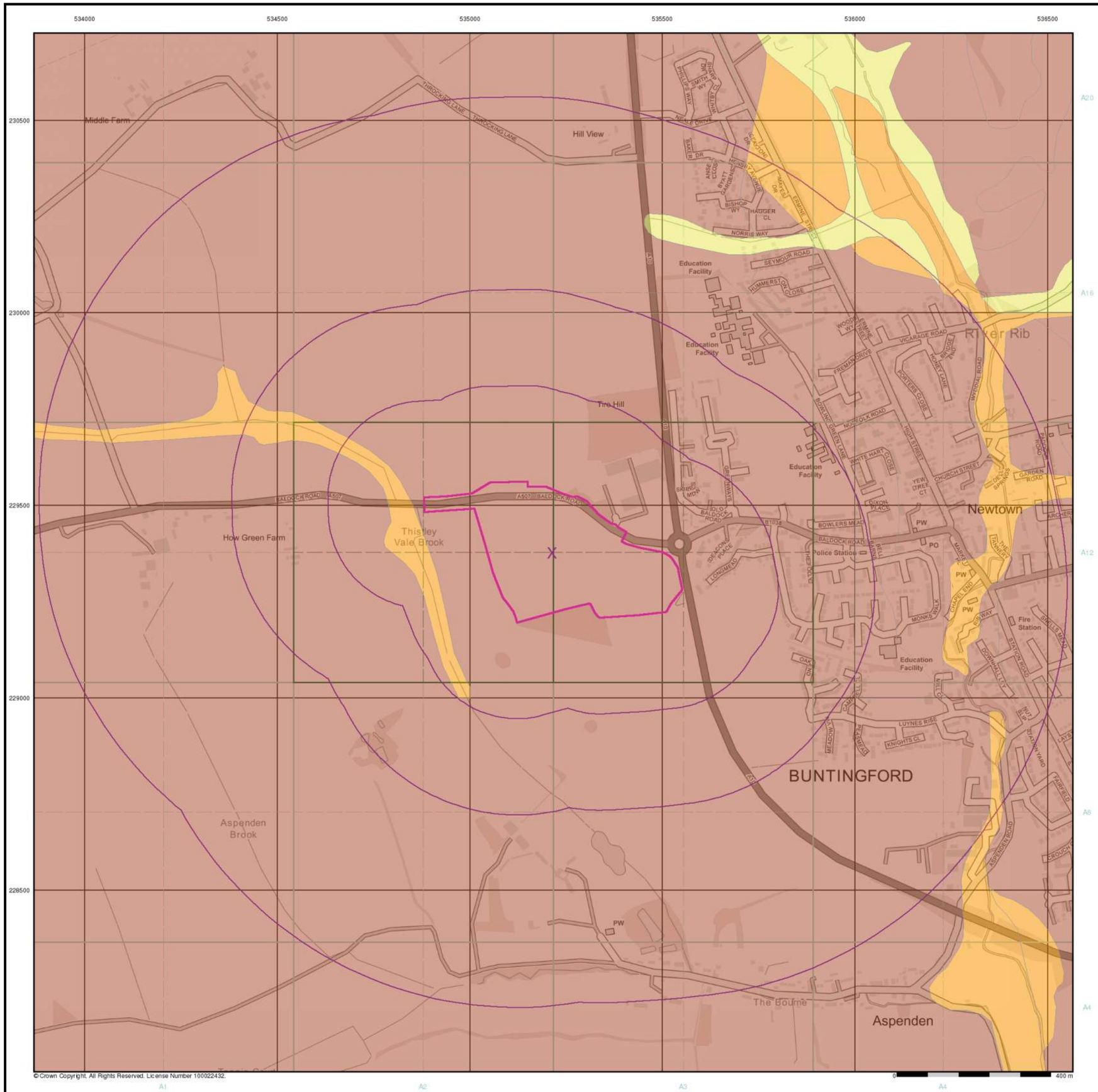
Order Details

Order Details:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

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General

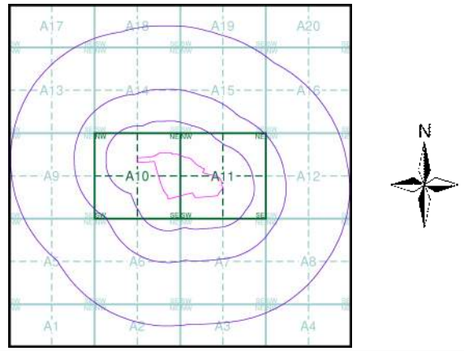
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



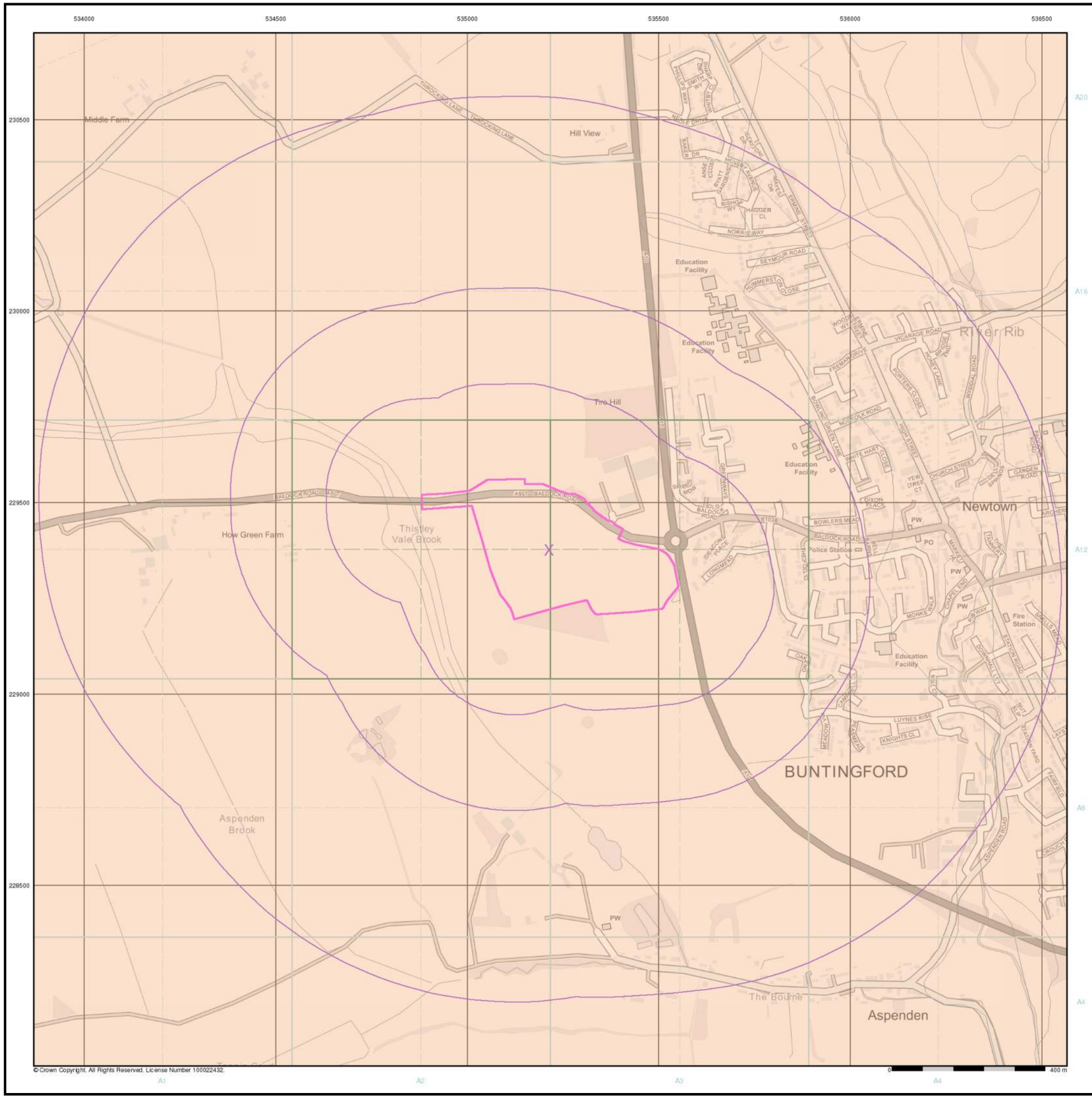
Order Details

Order Details:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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General

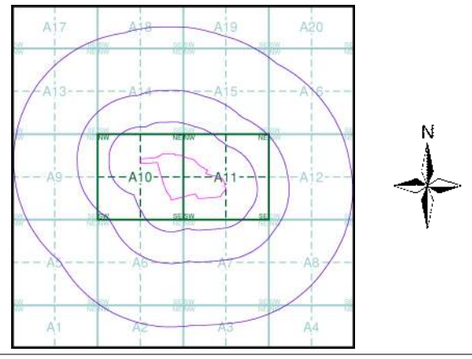
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



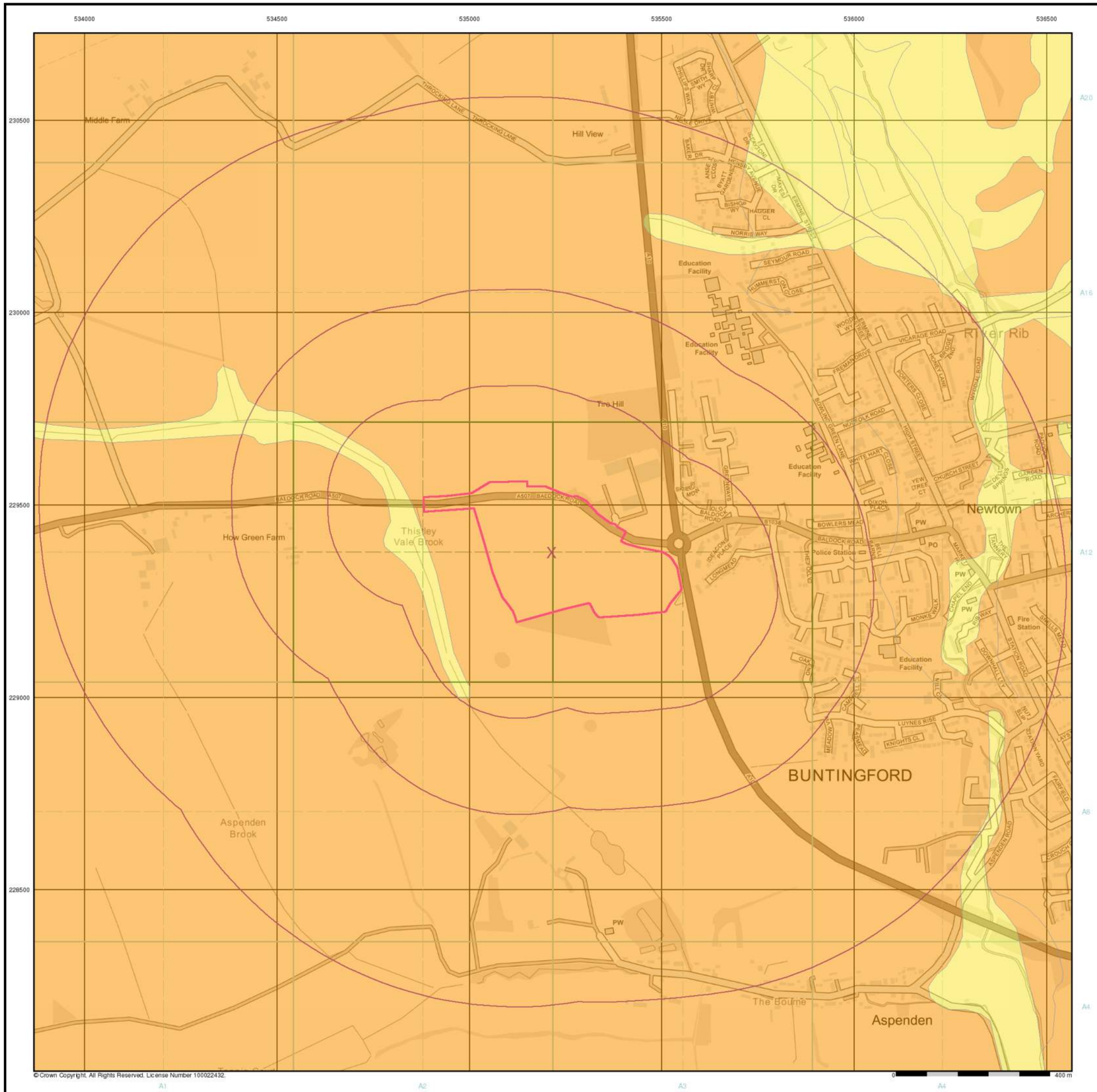
Order Details

Order Details:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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Site Details

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General

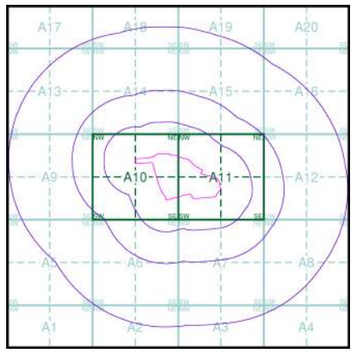
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



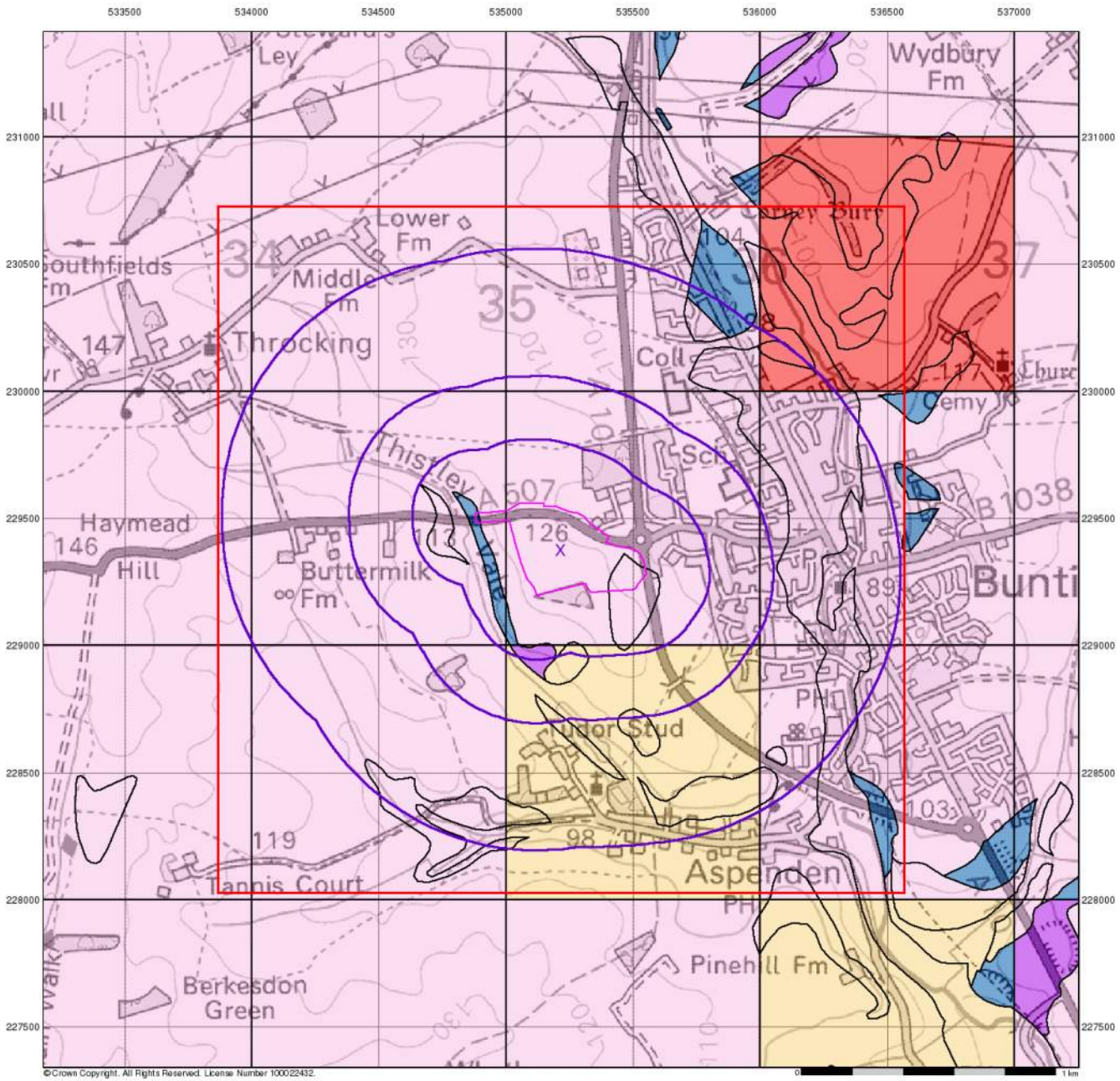
Order Details

Order Details:	351867540_1_1
Customer Ref:	23161 (2)
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Slice:	A
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Groundwater Vulnerability

General

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

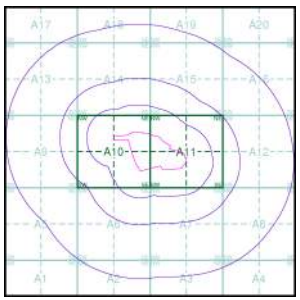
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



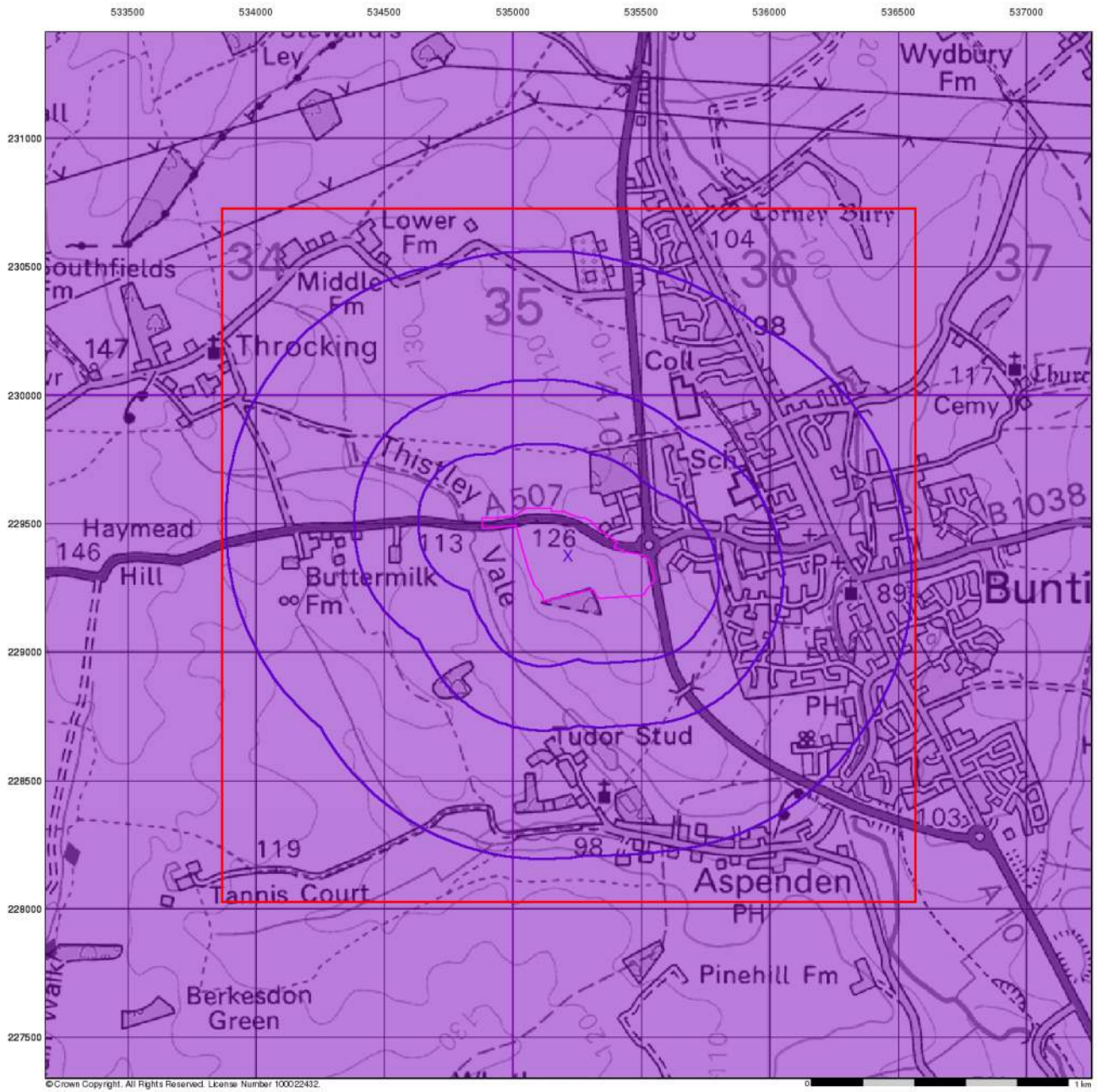
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Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

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Bedrock Aquifer Designation

General

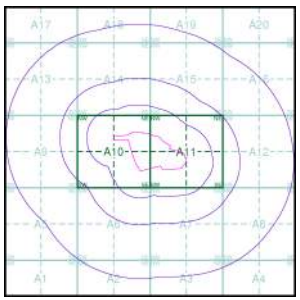
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



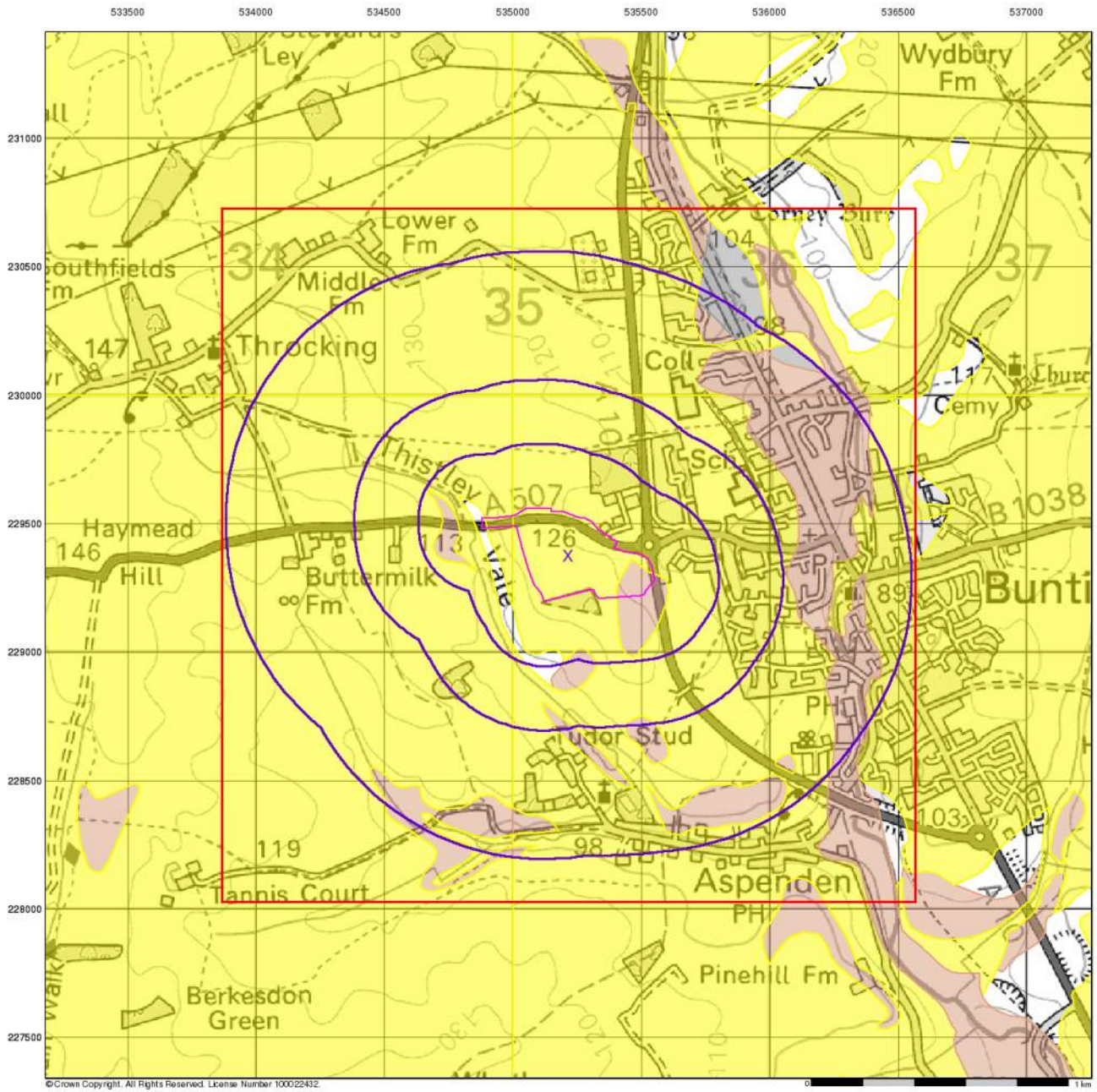
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Superficial Aquifer Designation

General

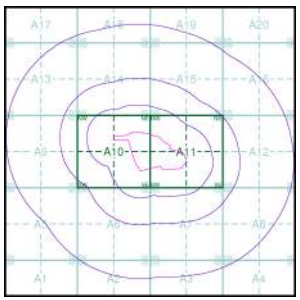
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



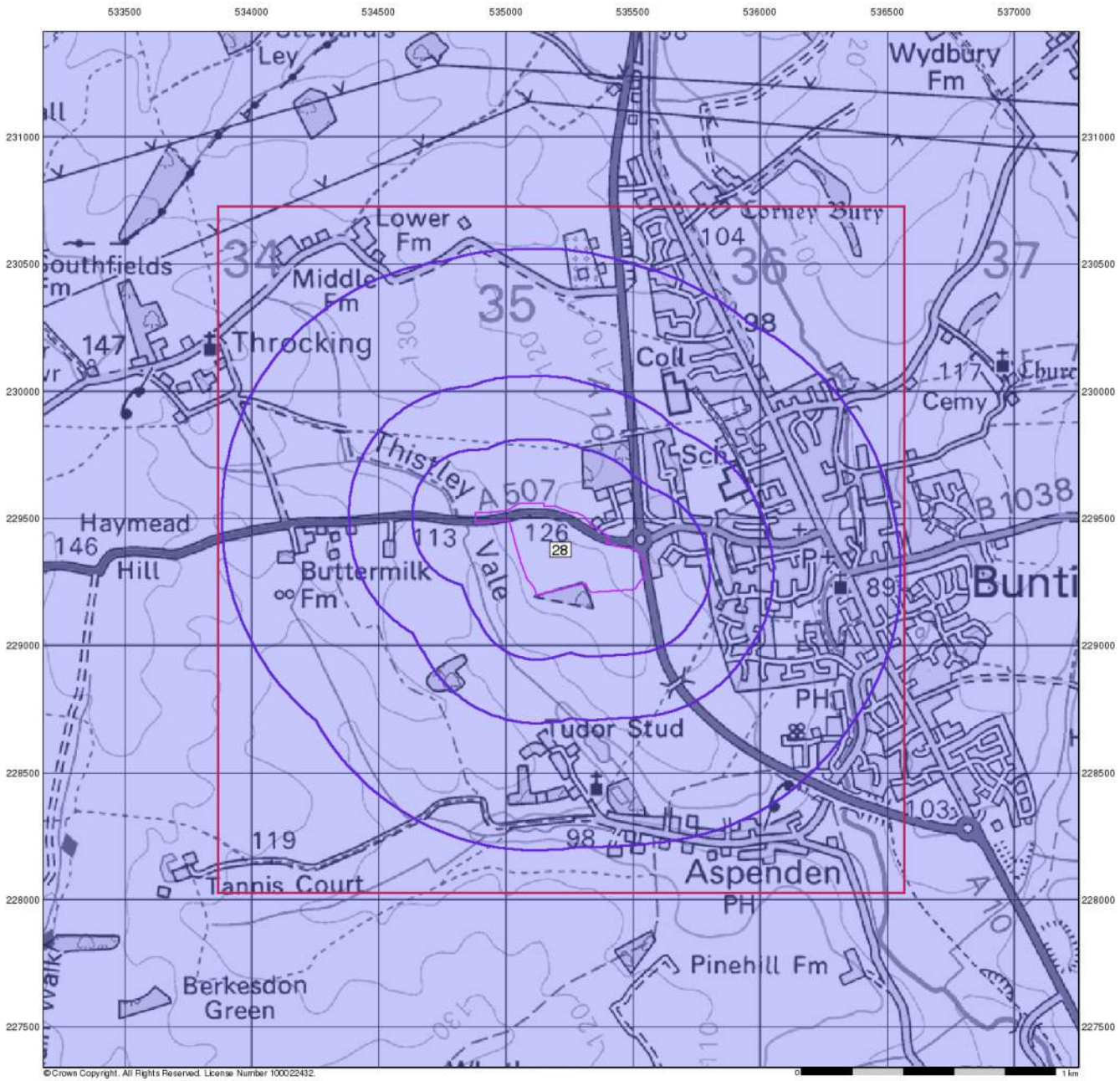
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Source Protection Zones

General

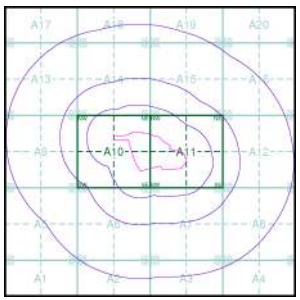
Specified Site | Specified Buffer(s) | Bearing Reference Point

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



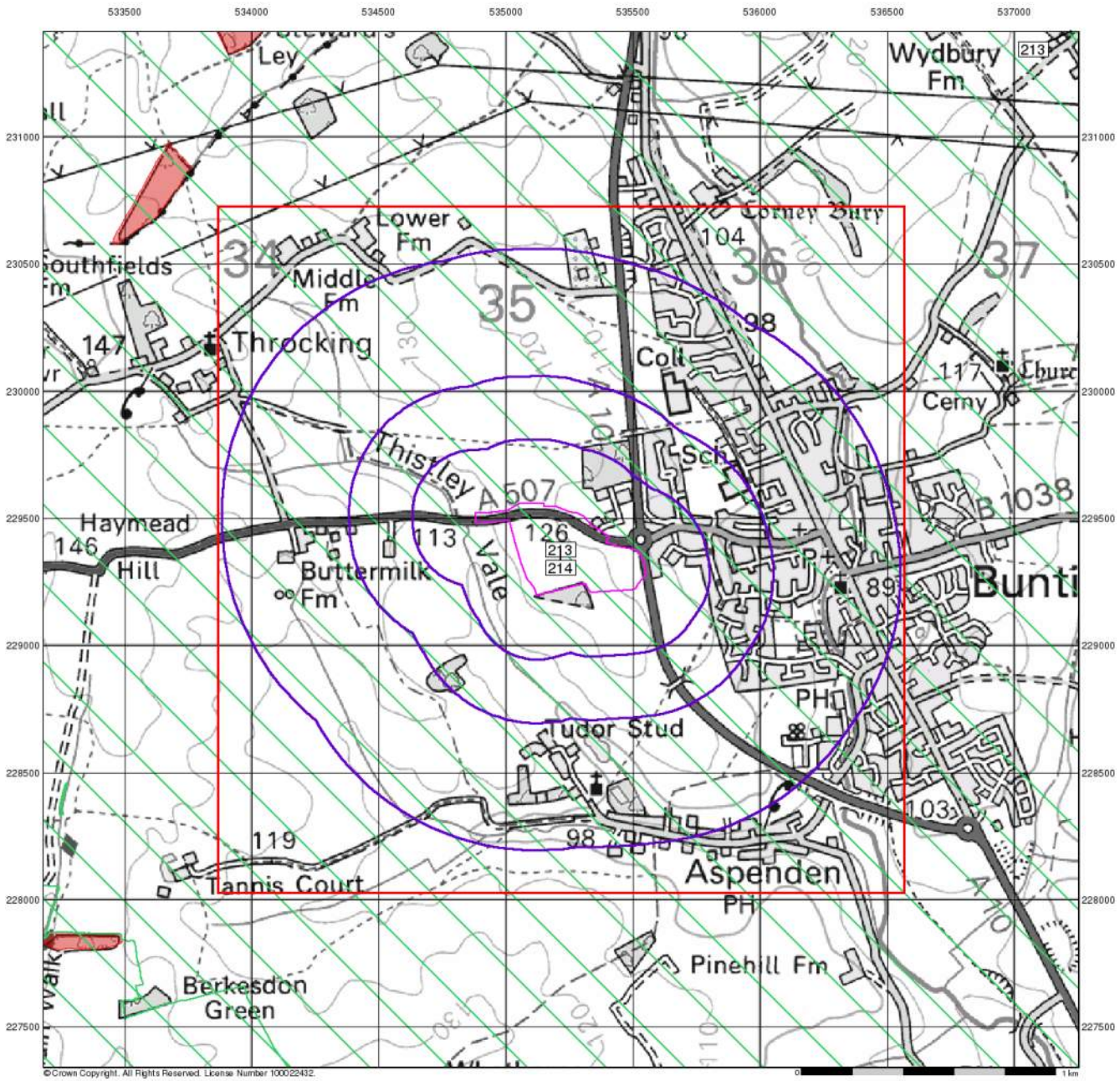
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Sensitive Land Uses

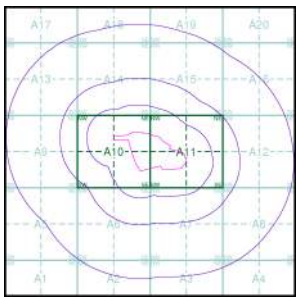
General

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



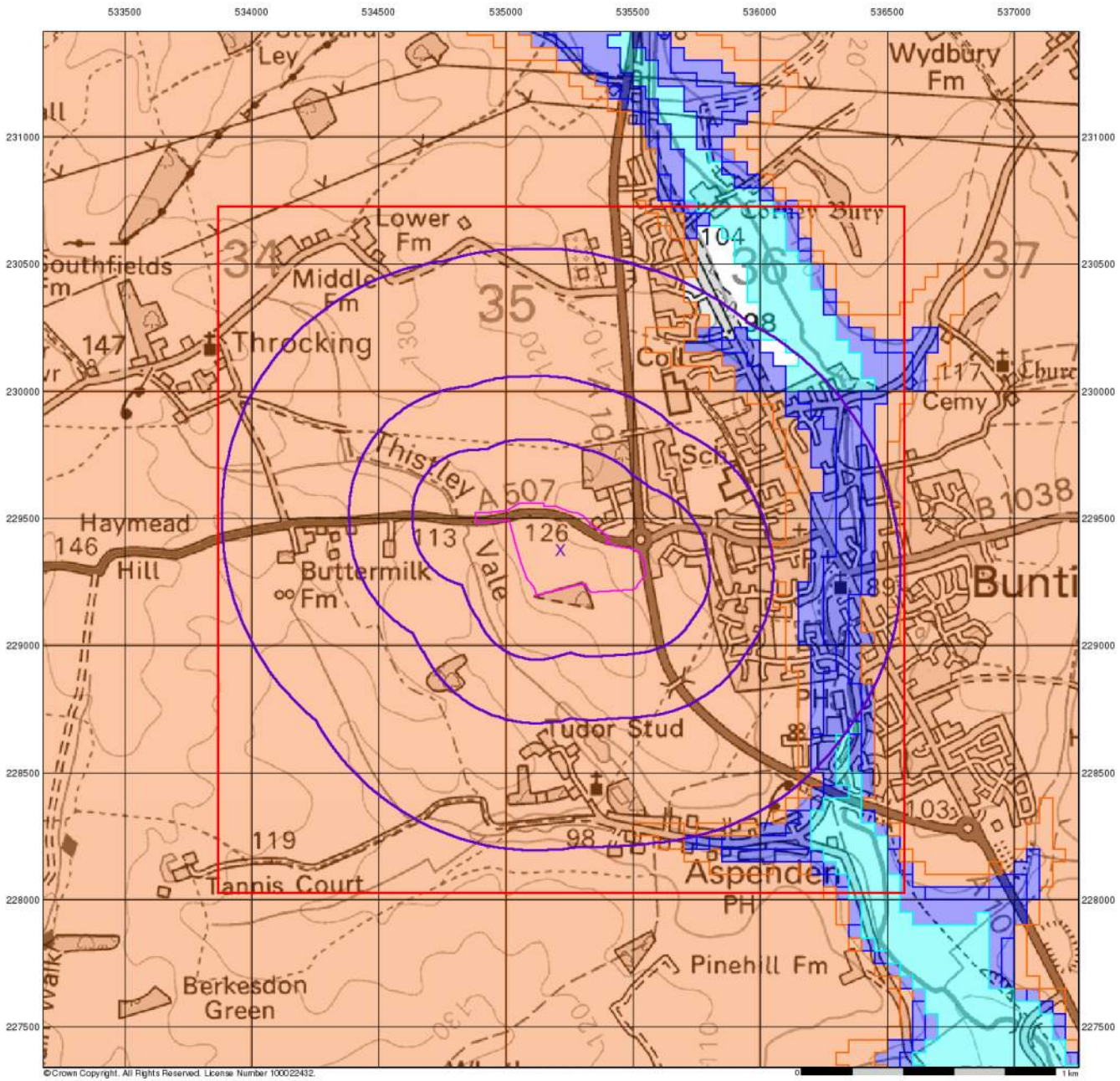
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Jubb

BGS Flood GFS Data

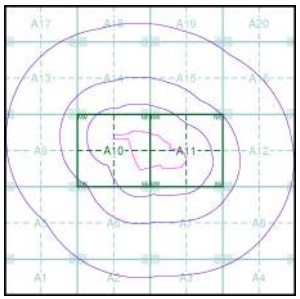
General

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

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APPENDIX C: ENVIROCHECK HISTORICAL MAPPING

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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. 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
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Pole
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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

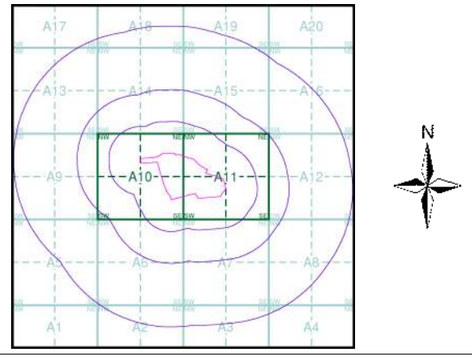
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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)
BM 123.45 m 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

Jubb

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
Essex	1:10,560	1924	5
Hertfordshire	1:10,560	1948 - 1950	6
Essex	1:10,560	1950	7
Ordnance Survey Plan	1:10,000	1960	8
Ordnance Survey Plan	1:10,000	1960	9
Ordnance Survey Plan	1:10,000	1978	10
Ordnance Survey Plan	1:10,000	1980 - 1982	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1993	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2024	16

Historical Map - Slice A



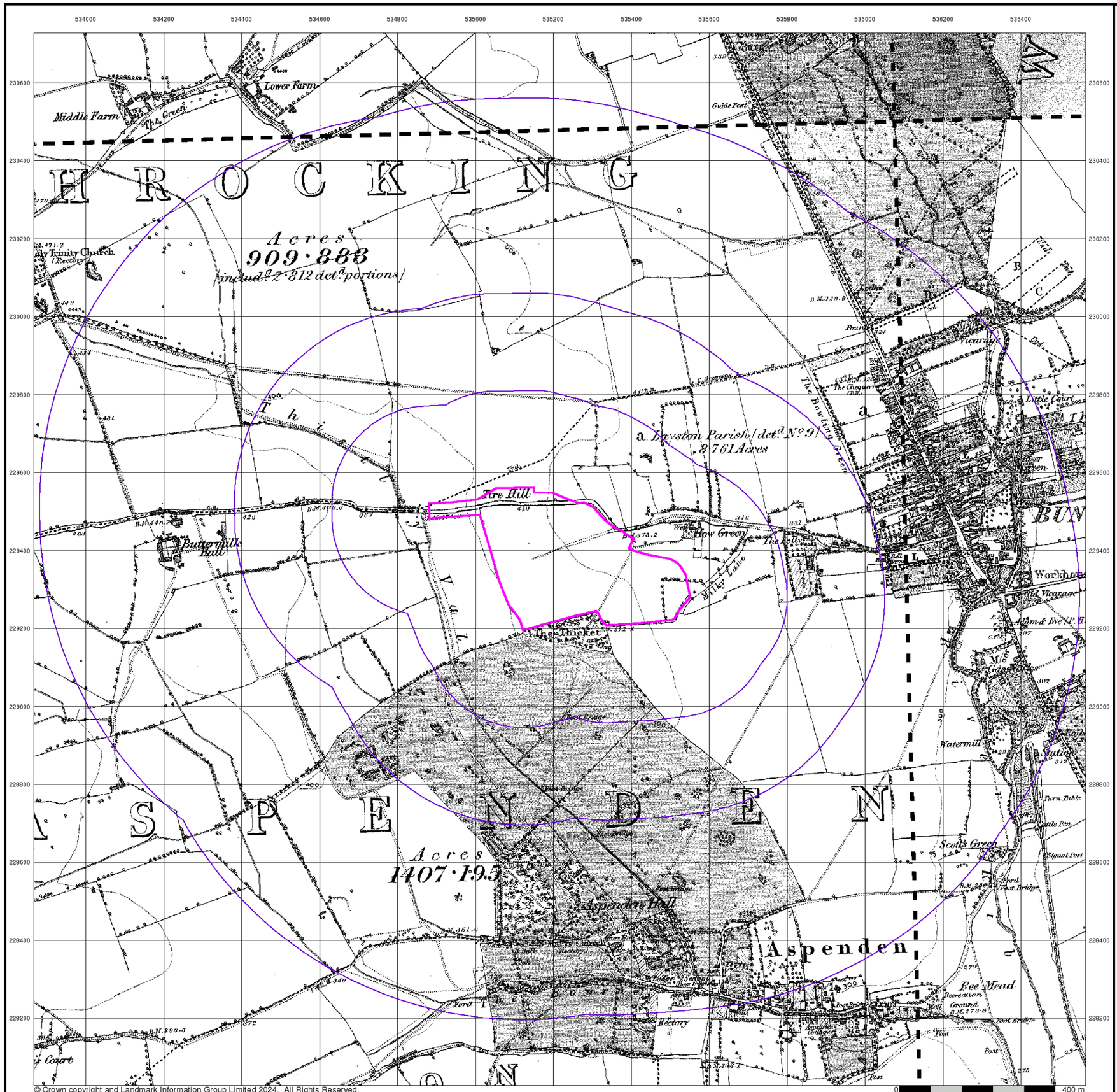
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National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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Hertfordshire

Published 1883 - 1884

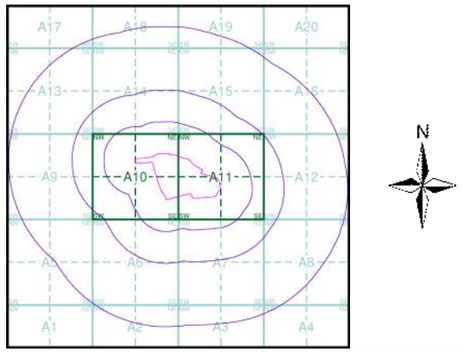
Source map scale - 1:10,560

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)

00800 1883 1:10,560	00900 1883 1:10,560
01300 1884 1:10,560	01400 1883 1:10,560

Historical Map - Slice A



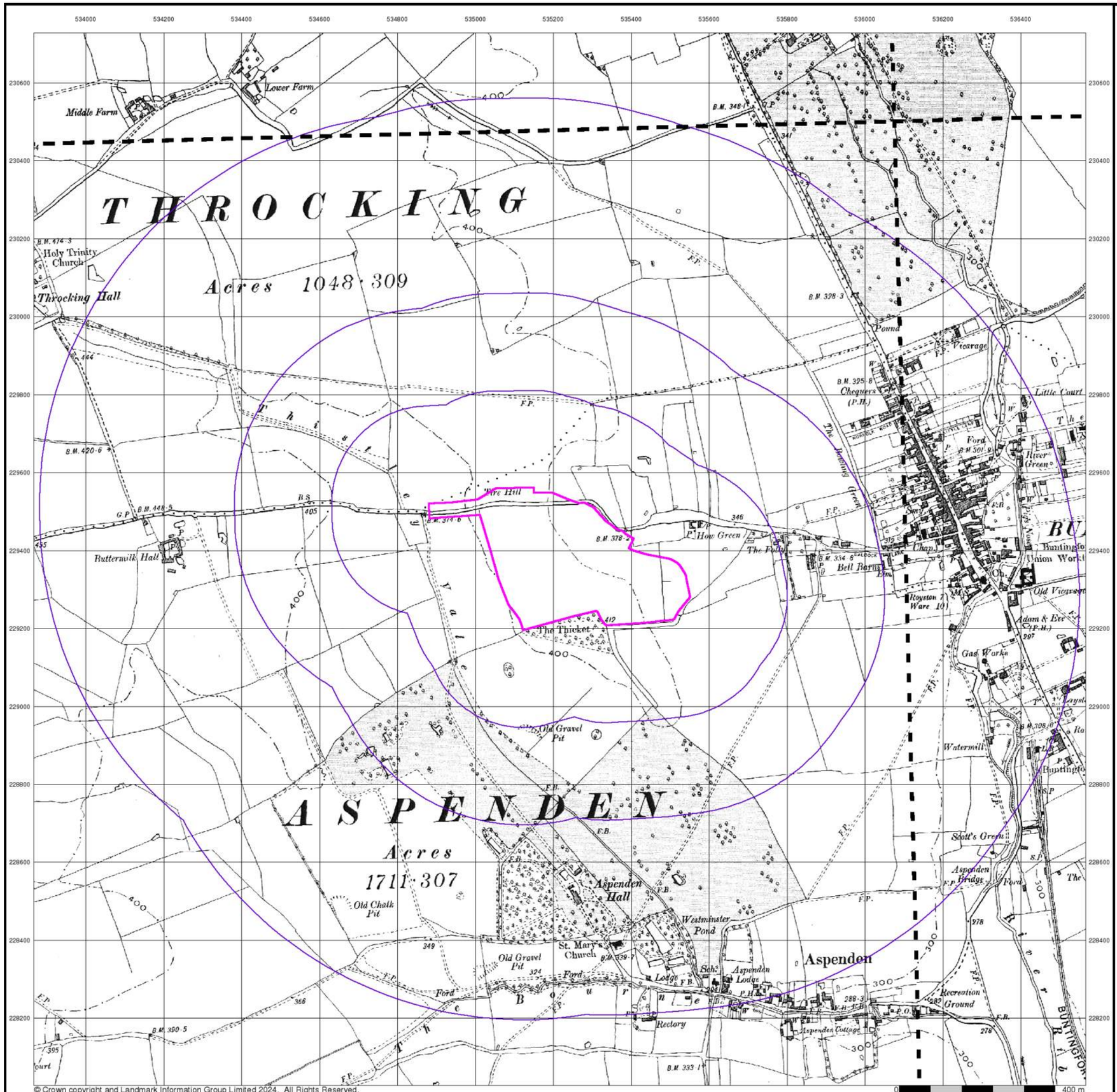
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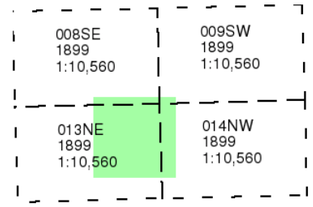
Hertfordshire

Published 1899

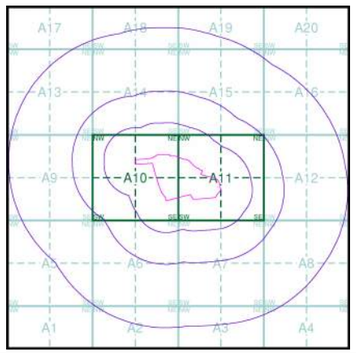
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Map Name(s) and Date(s)



Historical Map - Slice A



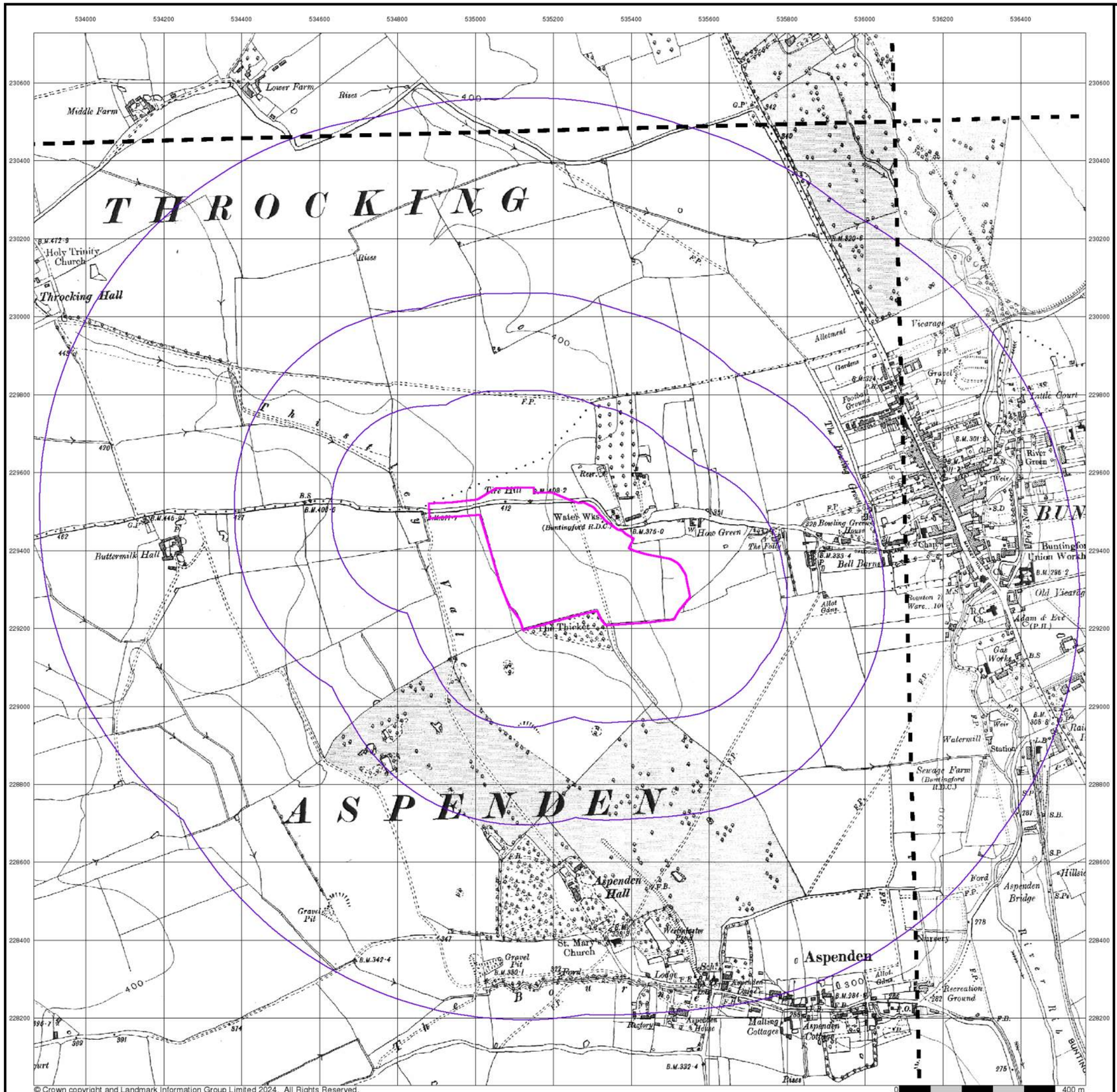
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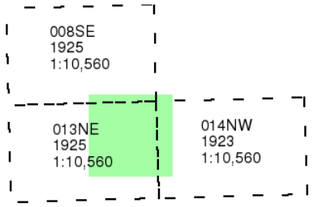
Hertfordshire

Published 1923 - 1925

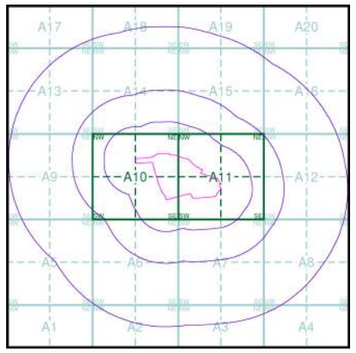
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Map Name(s) and Date(s)



Historical Map - Slice A



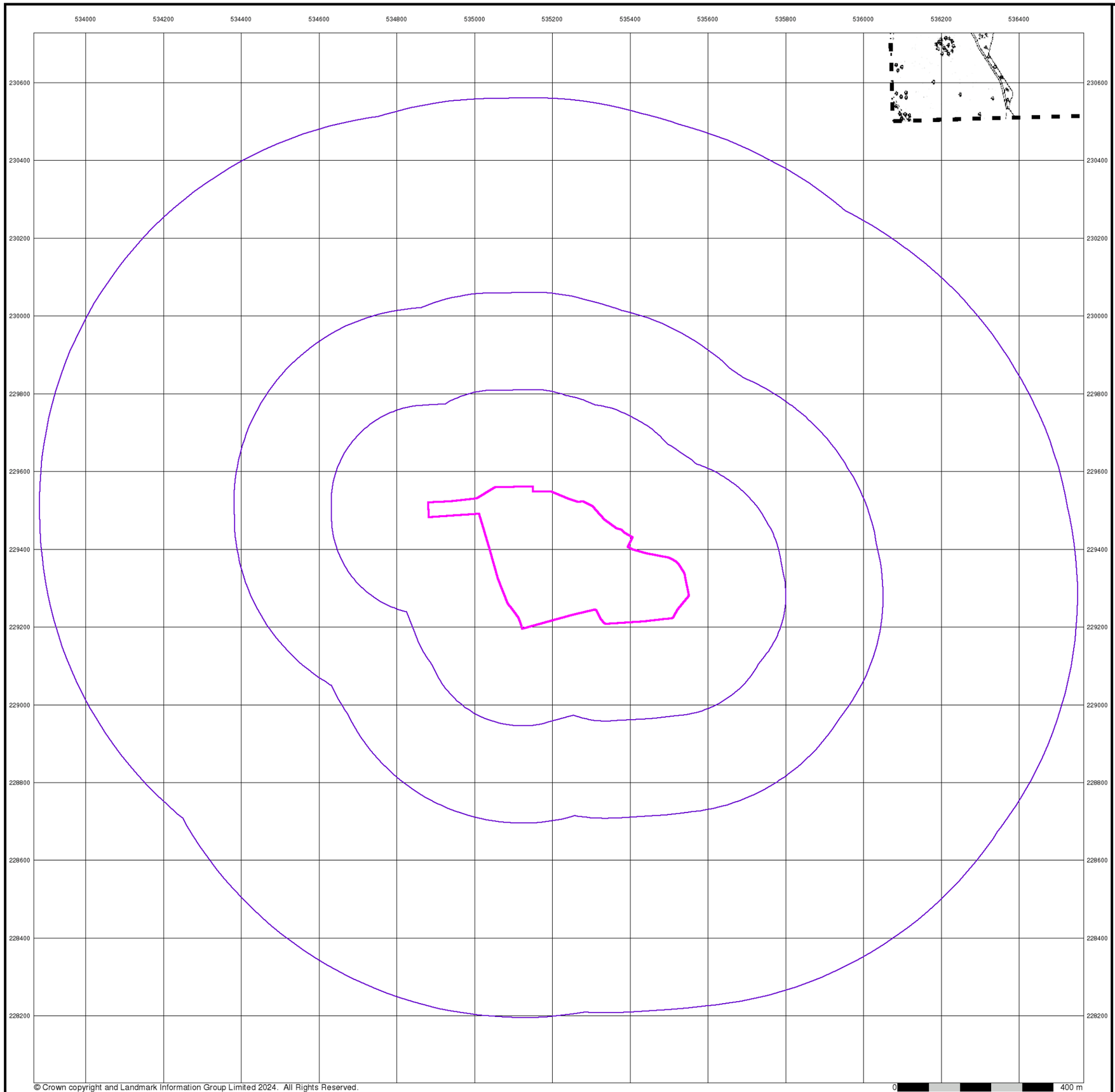
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Jubb

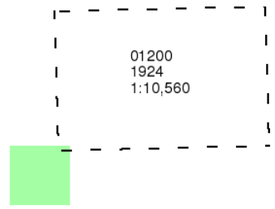
Essex

Published 1924

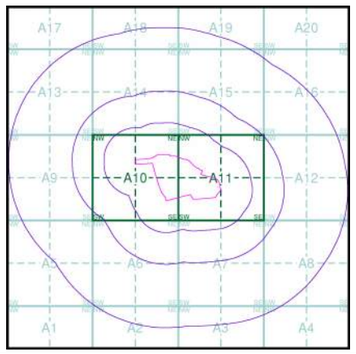
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

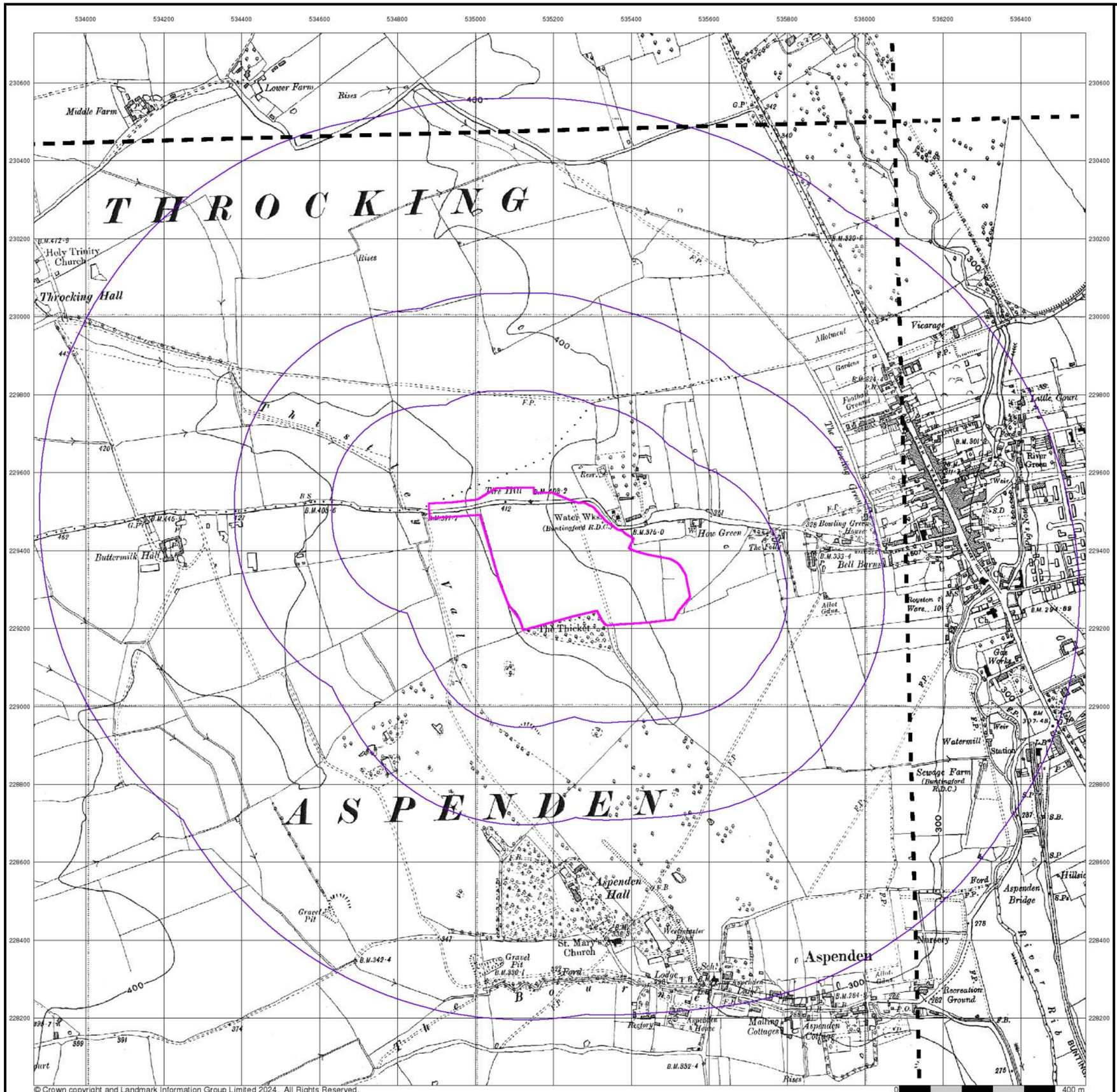
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Hertfordshire

Published 1948 - 1950

Source map scale - 1:10,560

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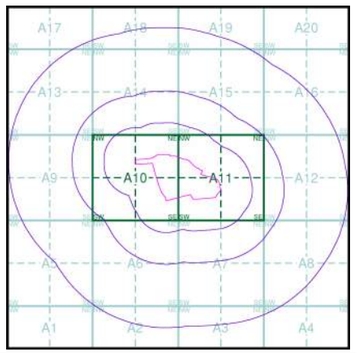
Map Name(s) and Date(s)

008SE
1950
1:10,560

013NE
1948
1:10,560

014NW
1950
1:10,560

Historical Map - Slice A



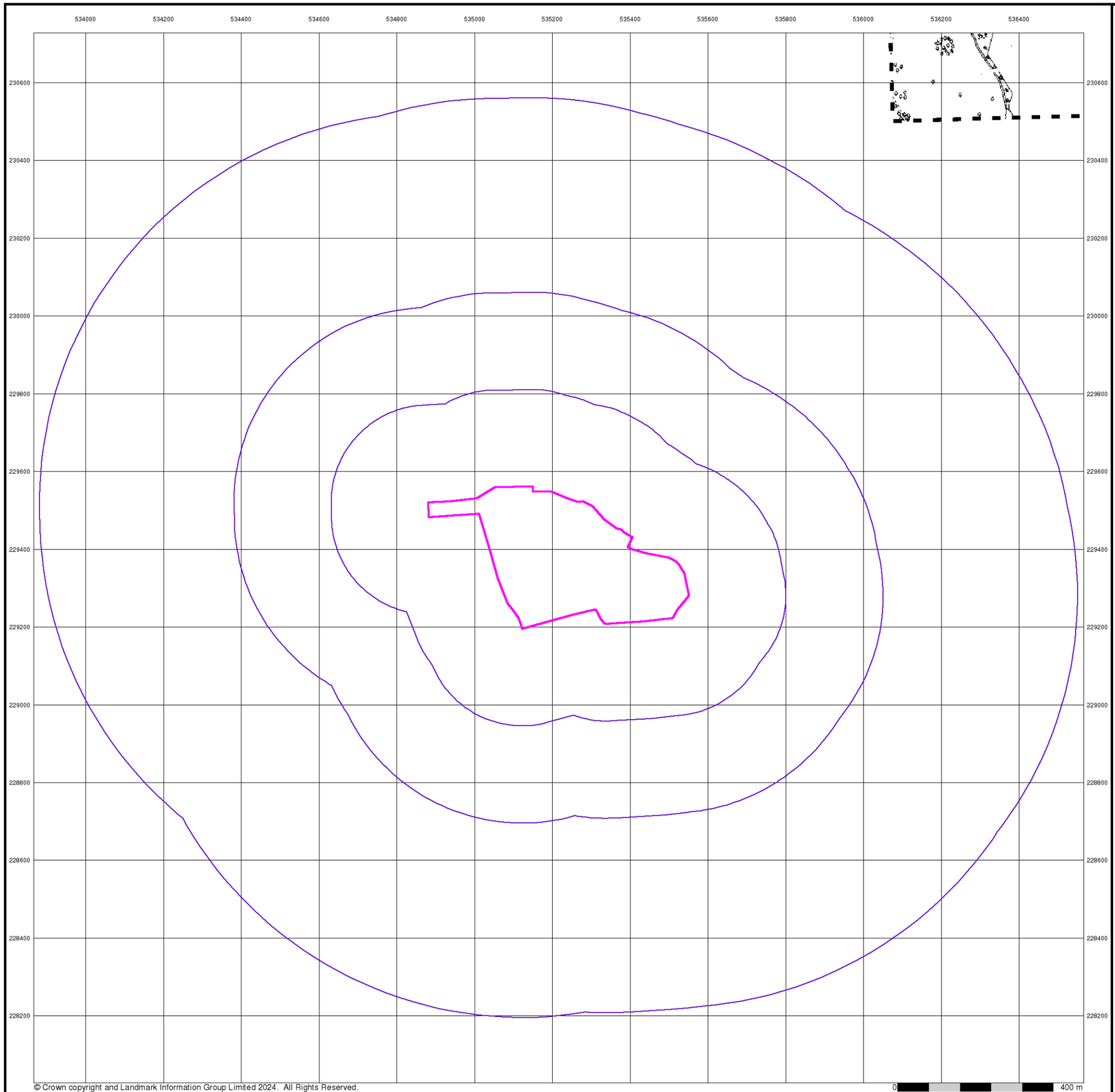
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Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	1000

Site Details

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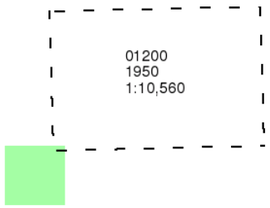
Essex

Published 1950

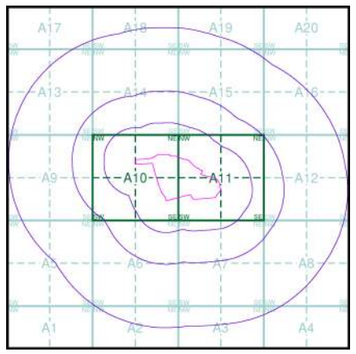
Source map scale - 1:10,560

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)



Historical Map - Slice A



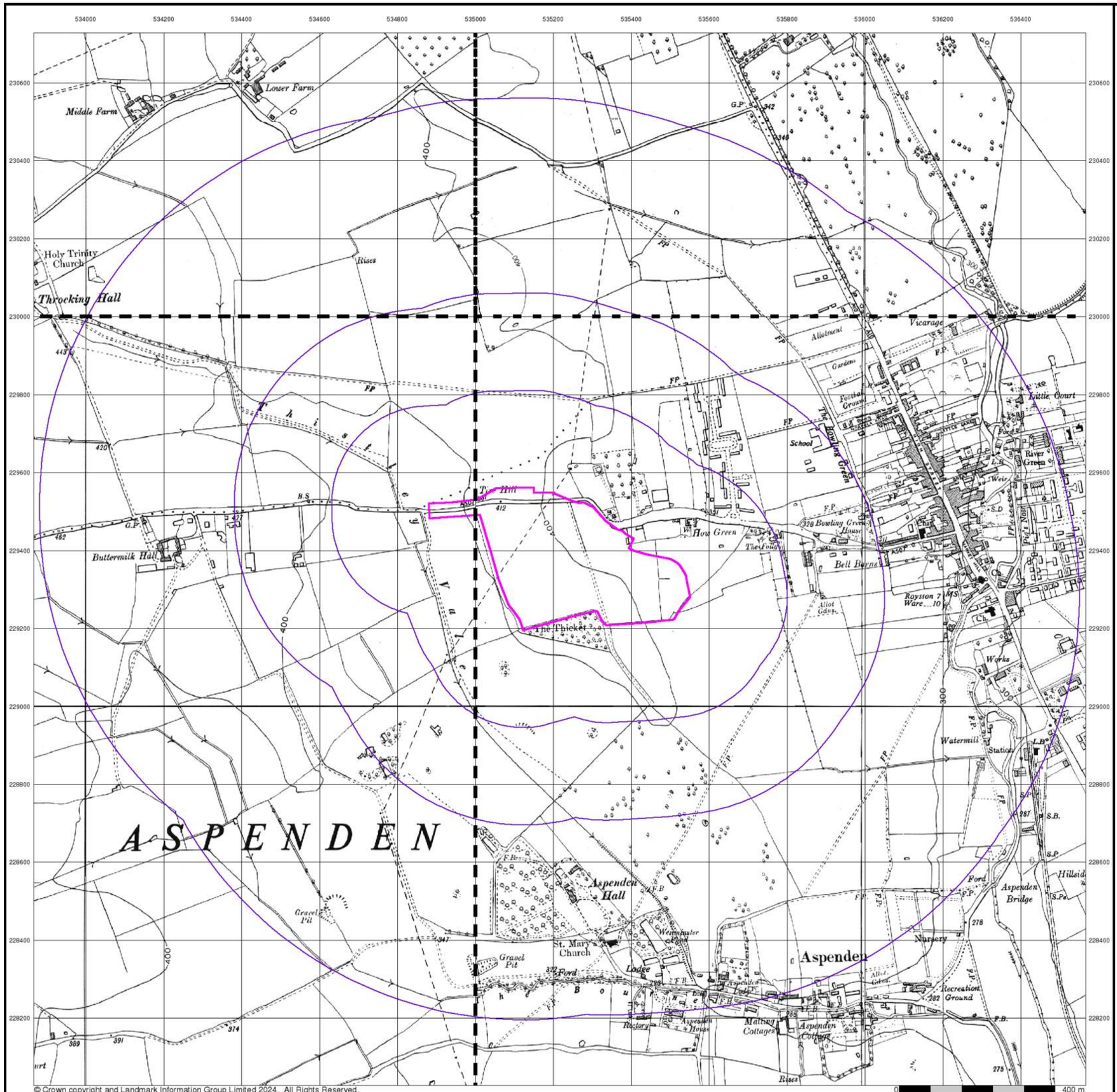
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Ordnance Survey Plan

Published 1960

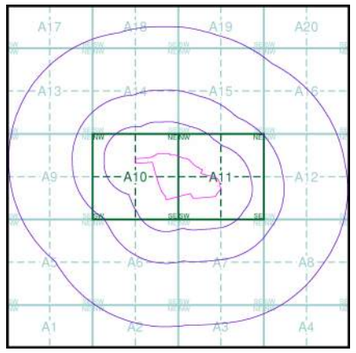
Source map scale - 1:10,000

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)

TL33SW 1960 1:10,560	TL33SE 1960 1:10,560
TL32NW 1960 1:10,560	TL32NE 1960 1:10,560

Historical Map - Slice A



Order Details

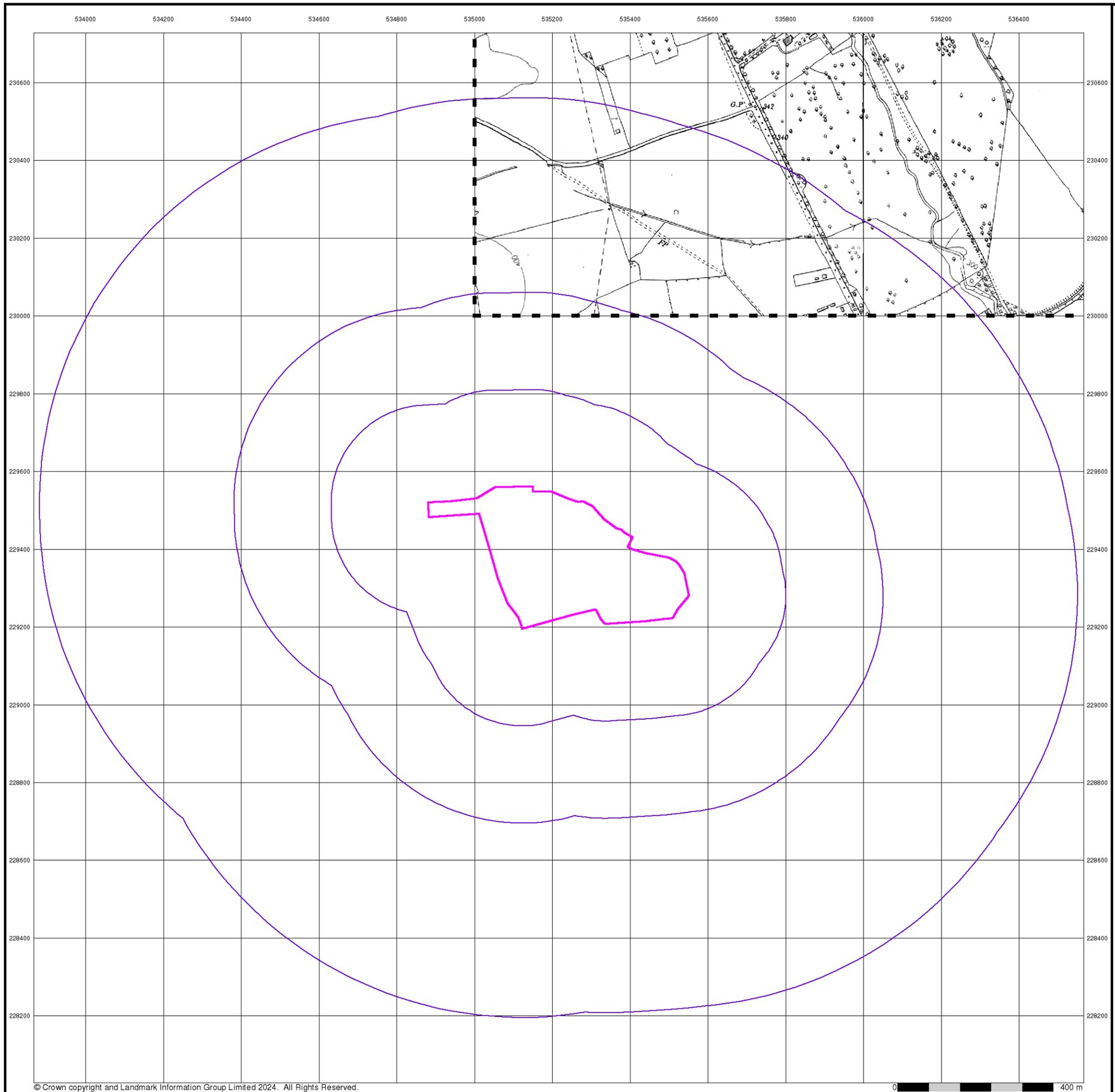
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Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
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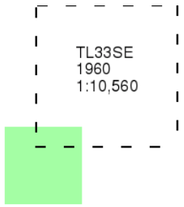
Ordnance Survey Plan

Published 1960

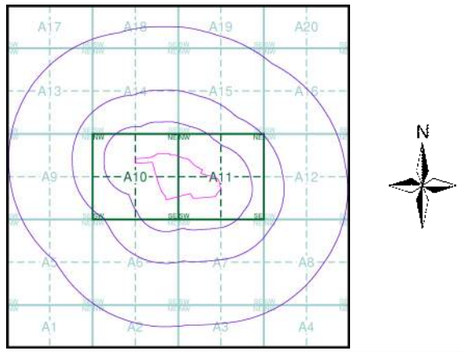
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



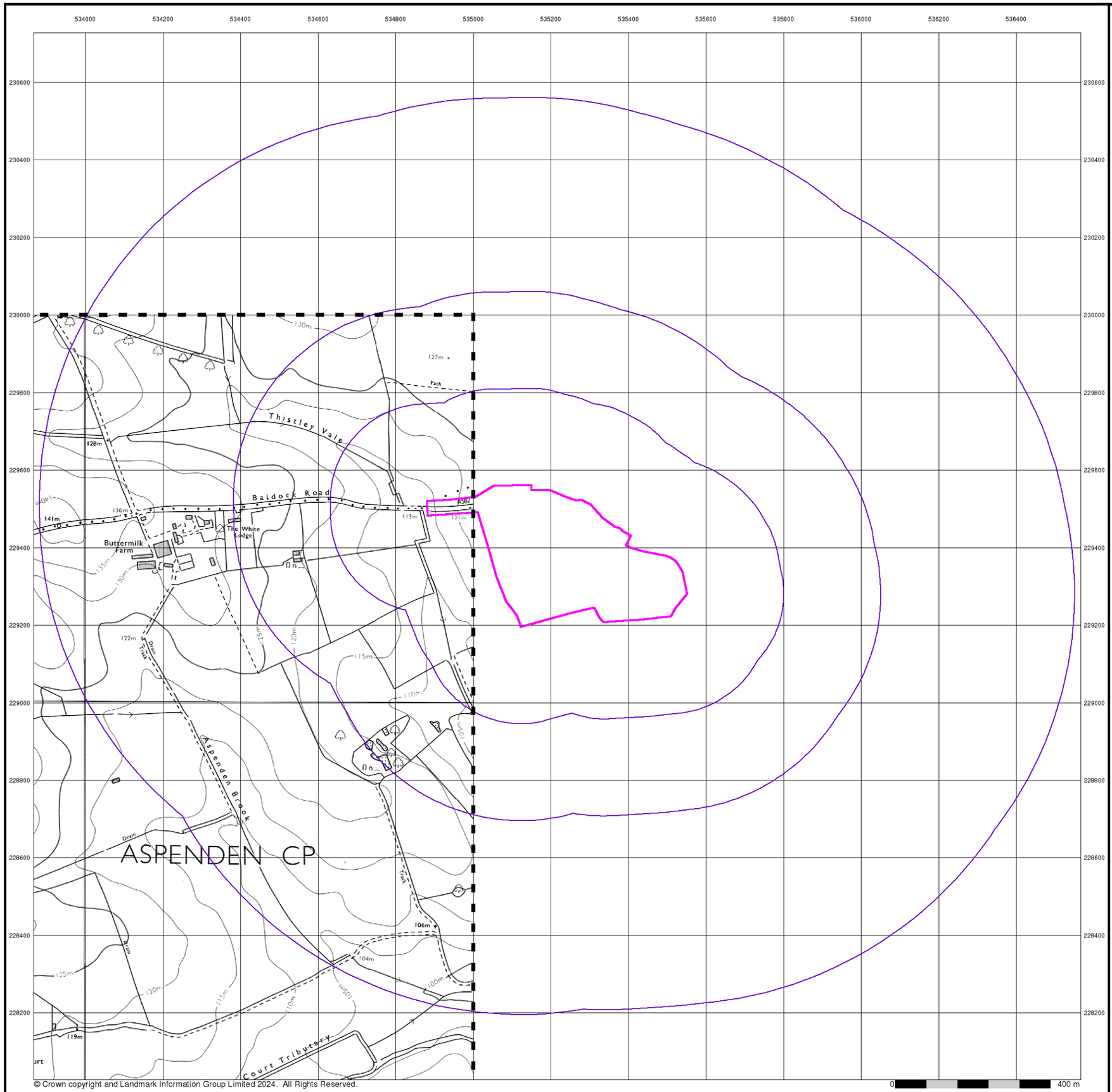
Order Details

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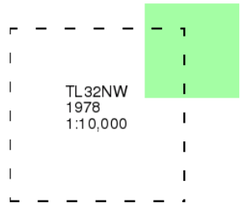
Ordnance Survey Plan

Published 1978

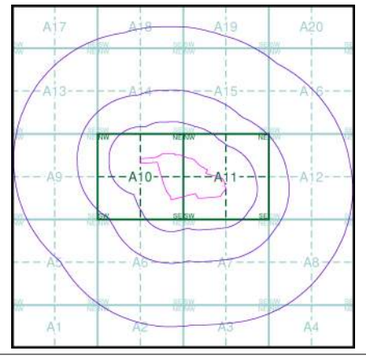
Source map scale - 1:10,000

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



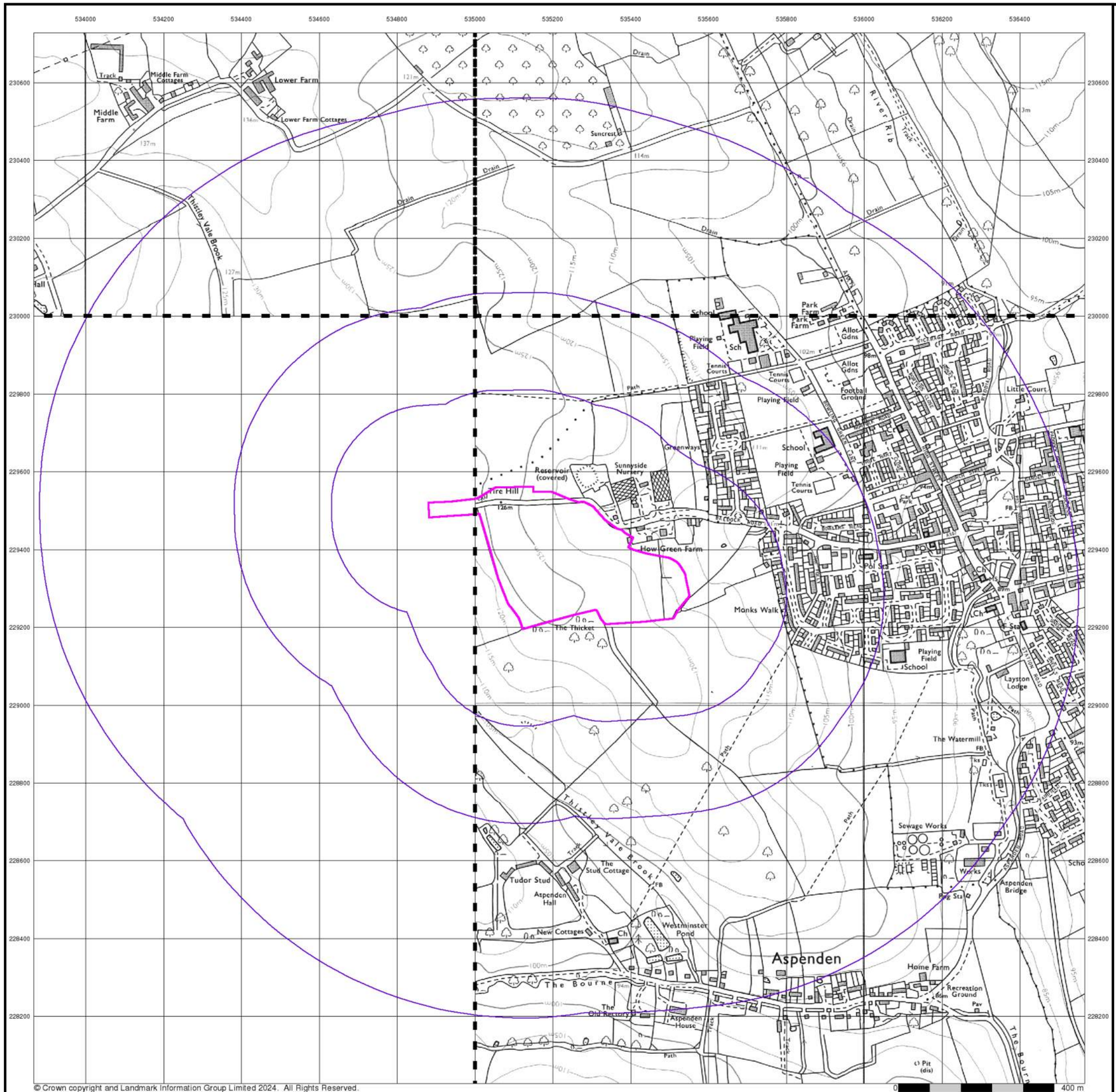
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Slice:	A
Site Area (Ha):	13.51
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Ordnance Survey Plan

Published 1980 - 1982

Source map scale - 1:10,000

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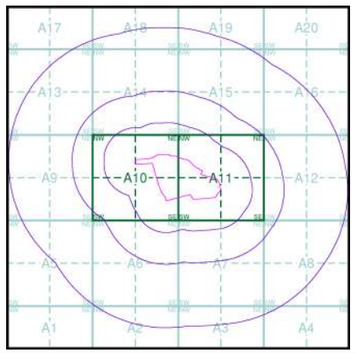
Map Name(s) and Date(s)

TL33SW 1982 1:10,000

TL33SE 1982 1:10,000

TL32NE 1980 1:10,000

Historical Map - Slice A



Order Details

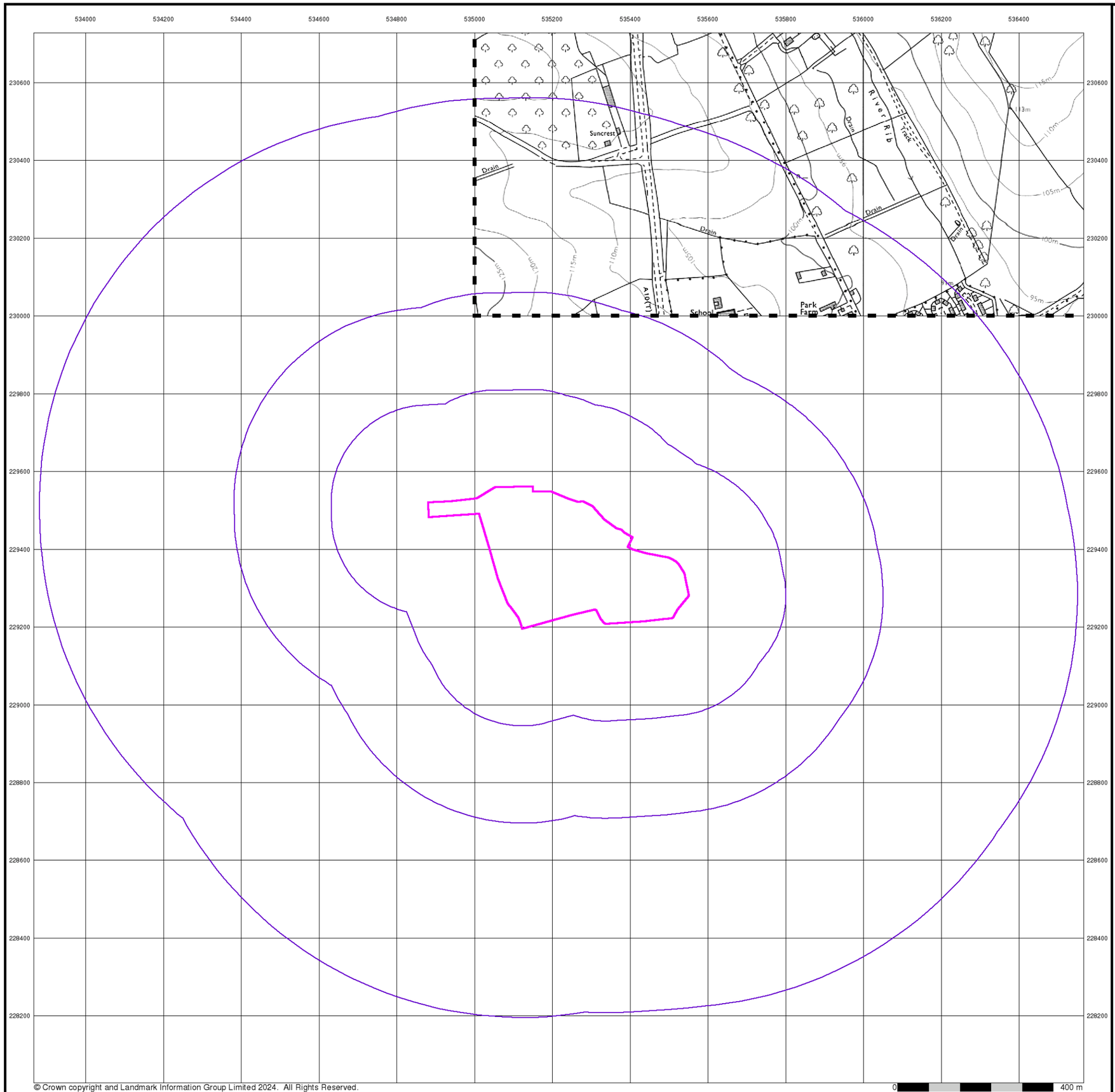
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National Grid Reference:	535210, 229380
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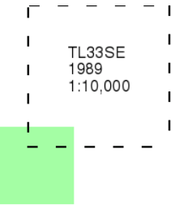
Ordnance Survey Plan

Published 1989

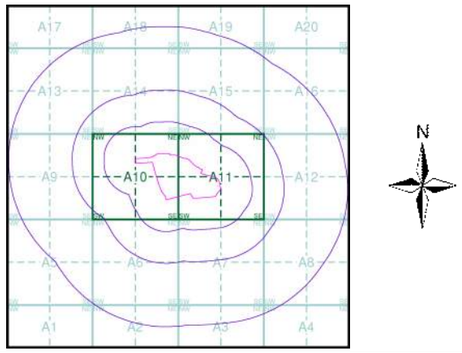
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	351867540_1_1
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National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
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Site Details

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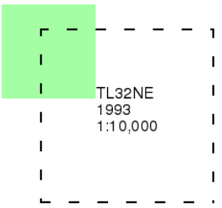
Ordnance Survey Plan

Published 1993

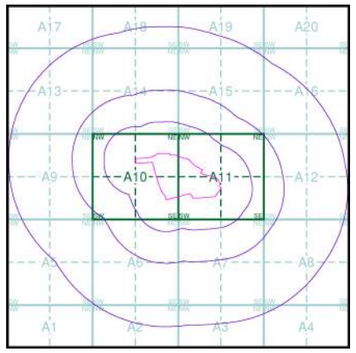
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



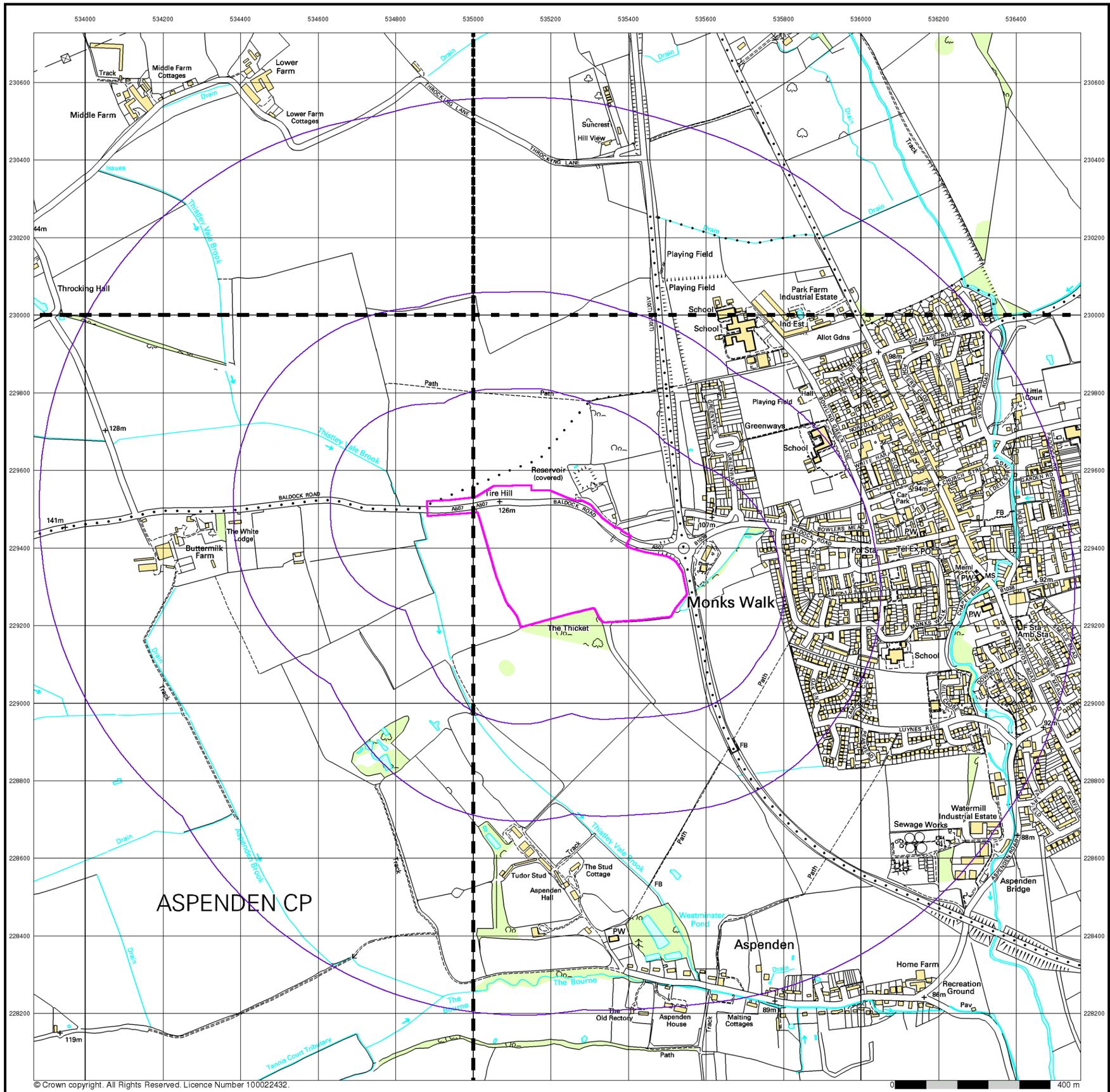
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10k Raster Mapping

Published 1999

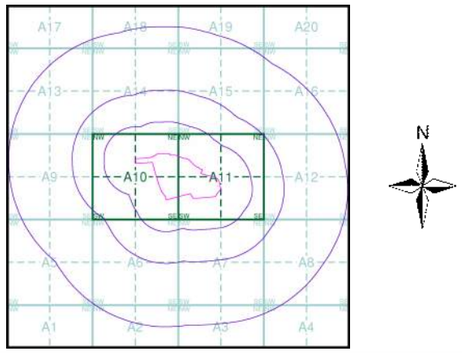
Source map scale - 1:10,000

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)

TL33SW 1999 1:10,000	TL33SE 1999 1:10,000
TL32NW 1999 1:10,000	TL32NE 1999 1:10,000

Historical Map - Slice A



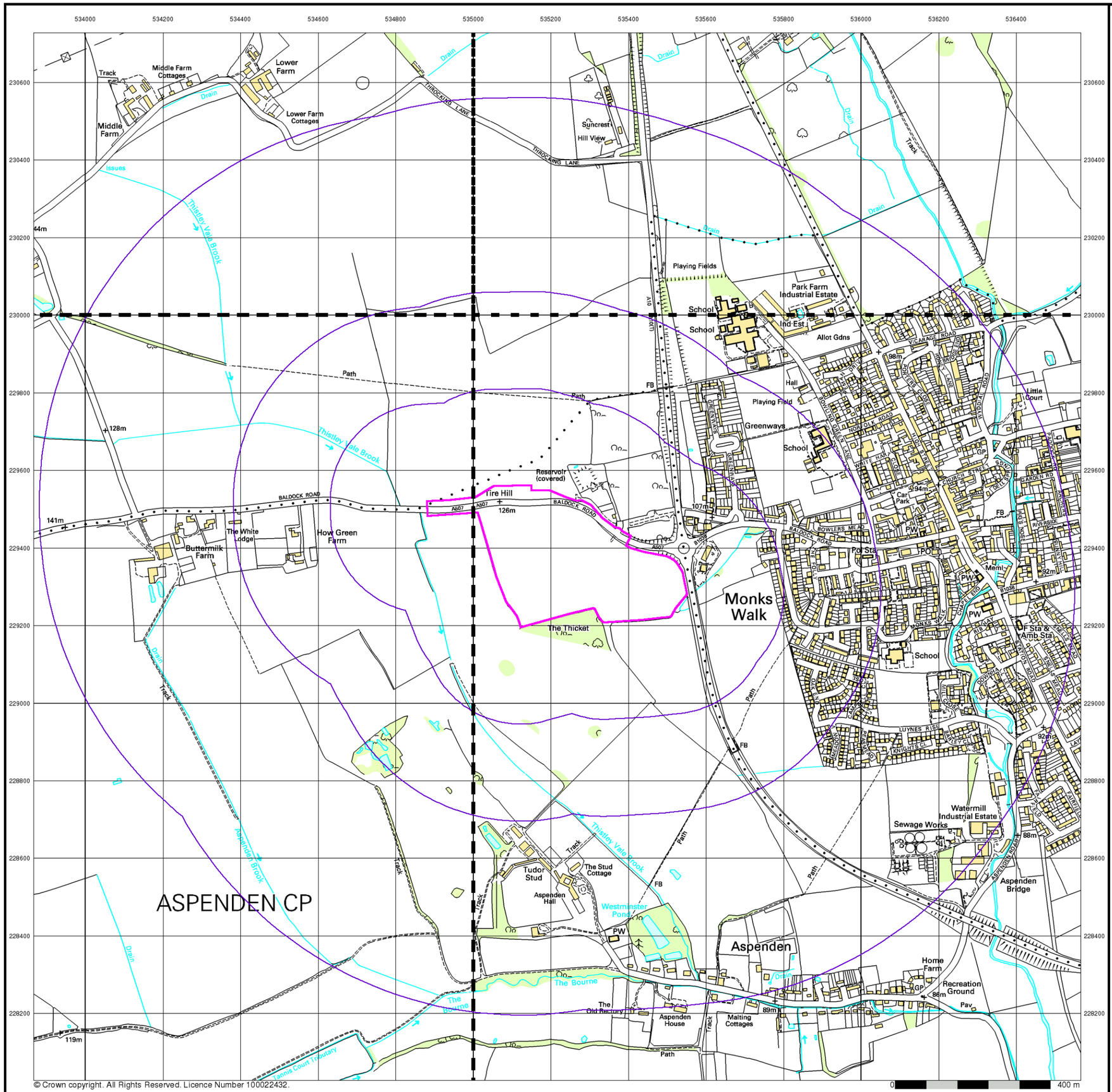
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10k Raster Mapping

Published 2006

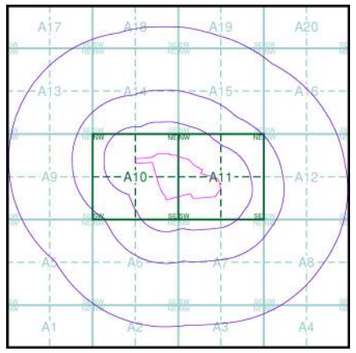
Source map scale - 1:10,000

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Map Name(s) and Date(s)

TL33SW 2006 1:10,000	TL33SE 2006 1:10,000
TL32NW 2006 1:10,000	TL32NE 2006 1:10,000

Historical Map - Slice A



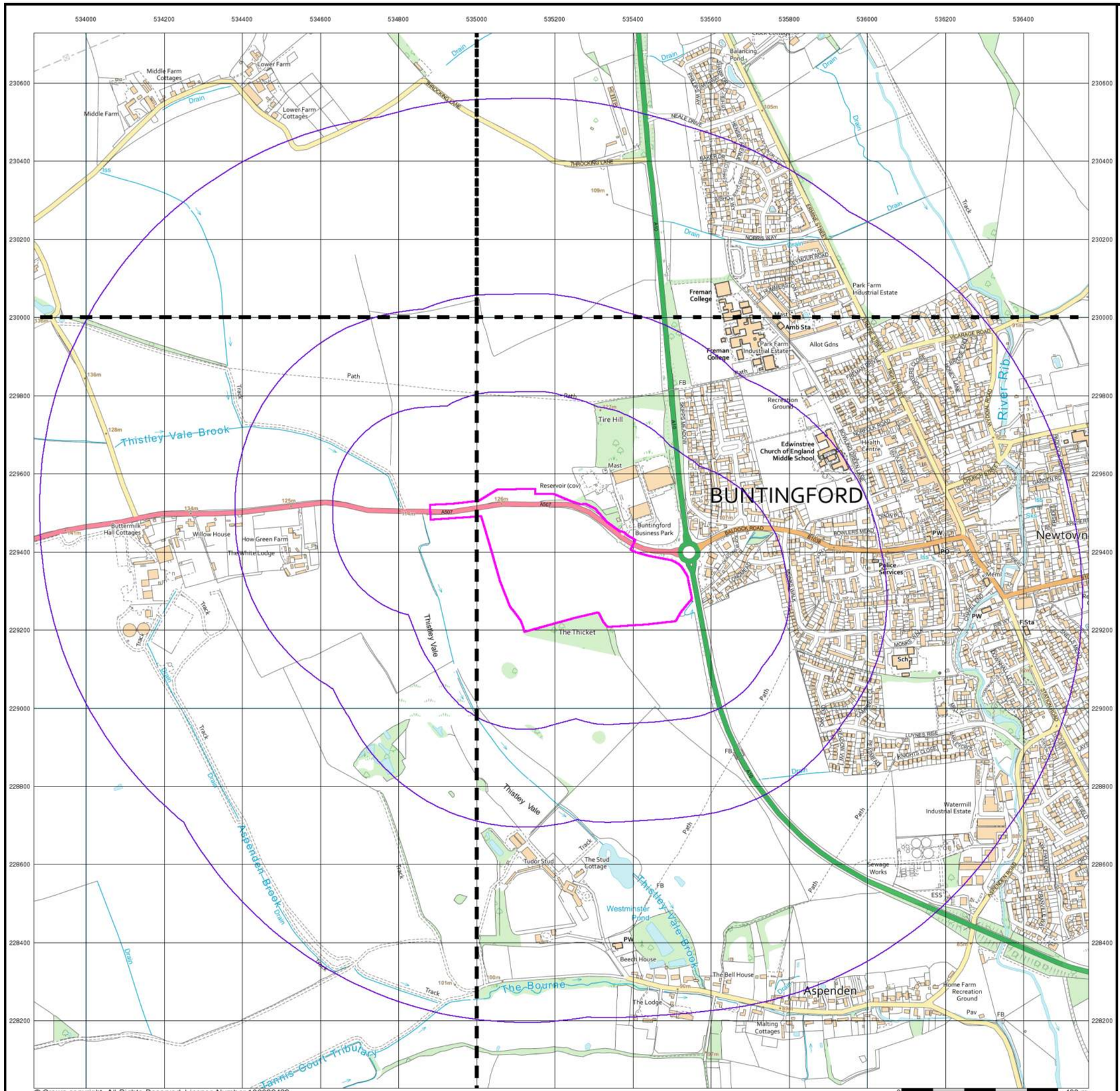
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VectorMap Local

Published 2024

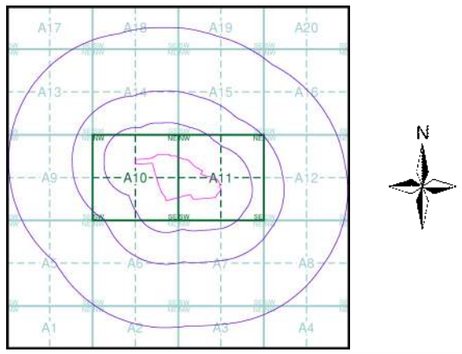
Source map scale - 1:10,000

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)

TL33SW 2024 Variable	TL33SE 2024 Variable
TL32NW 2024 Variable	TL32NE 2024 Variable

Historical Map - Slice A



Order Details

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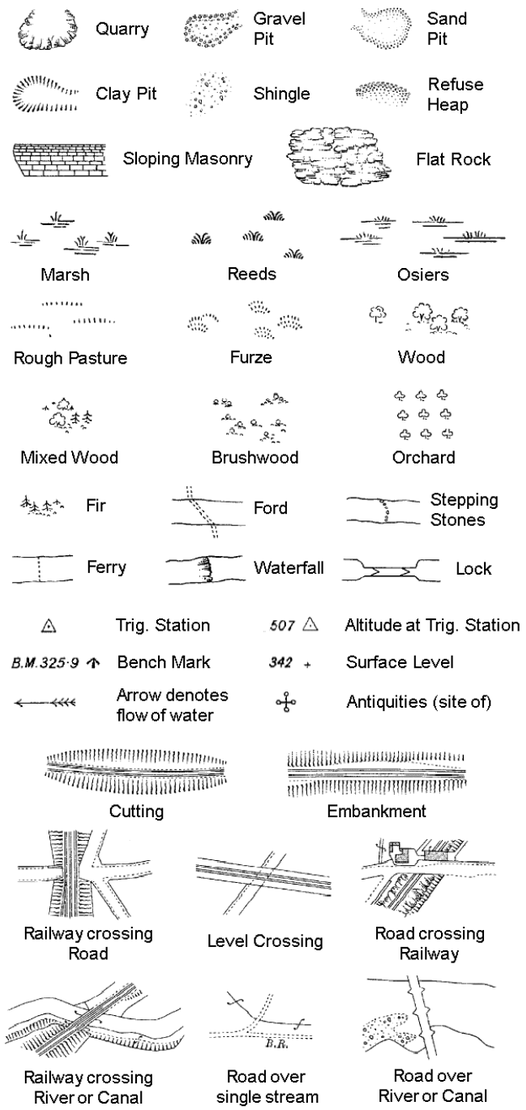
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Historical Mapping Legends

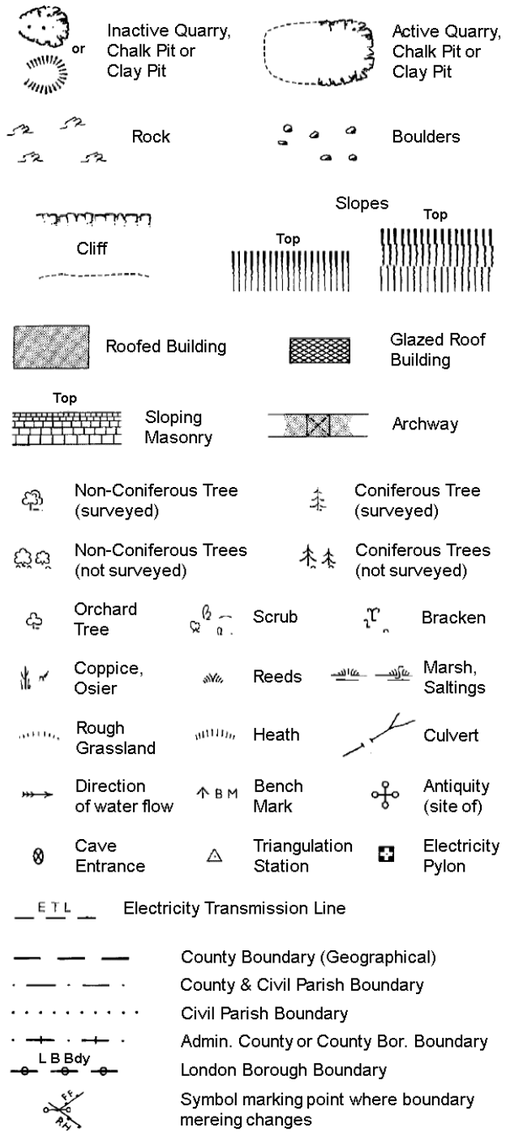
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	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

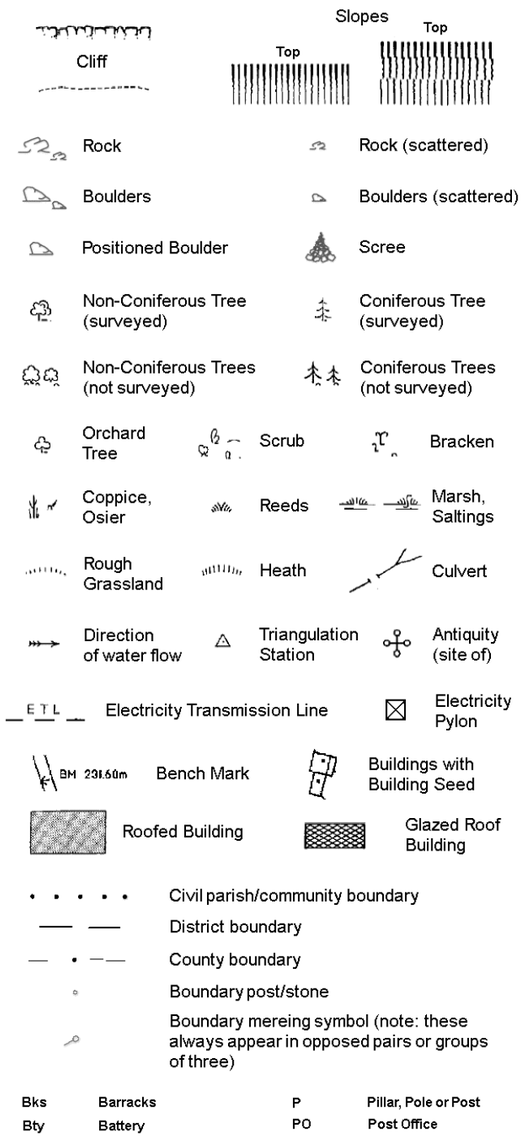
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy 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
El 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



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)

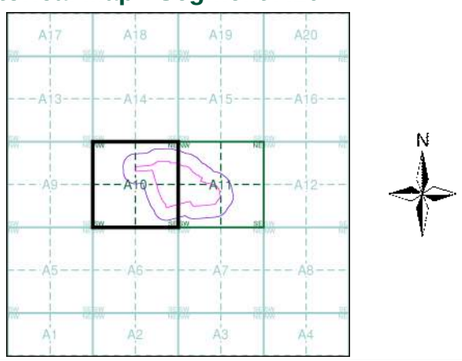
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El 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 Governer	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

Jubb

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	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	1995	9
Large-Scale National Grid Data	1:2,500	1996	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A10



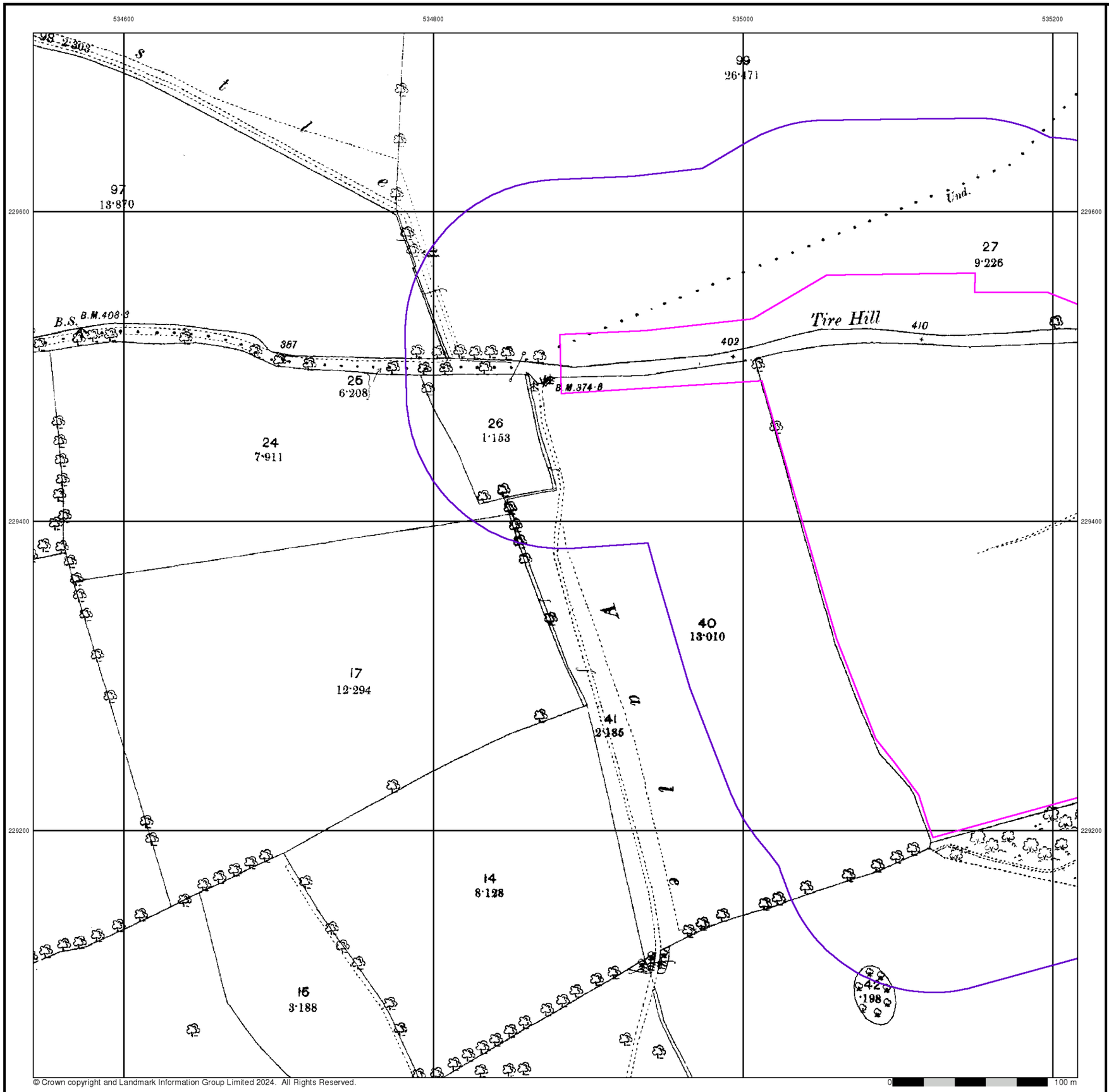
Order Details

Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	100

Site Details

Urbaser Ltd, Unit 1, Buntingford Business Park, Baldock Road, BUNTINGFORD, SG9 9ER

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Jubb

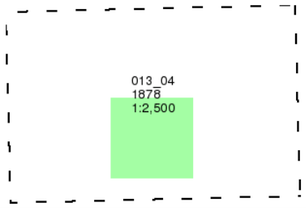
Hertfordshire

Published 1878

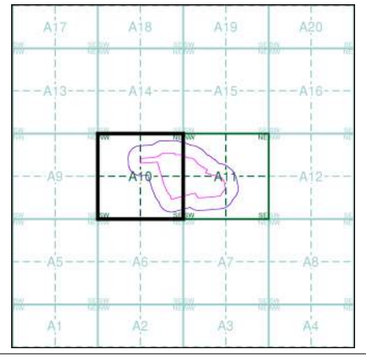
Source map scale - 1:2,500

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 A10



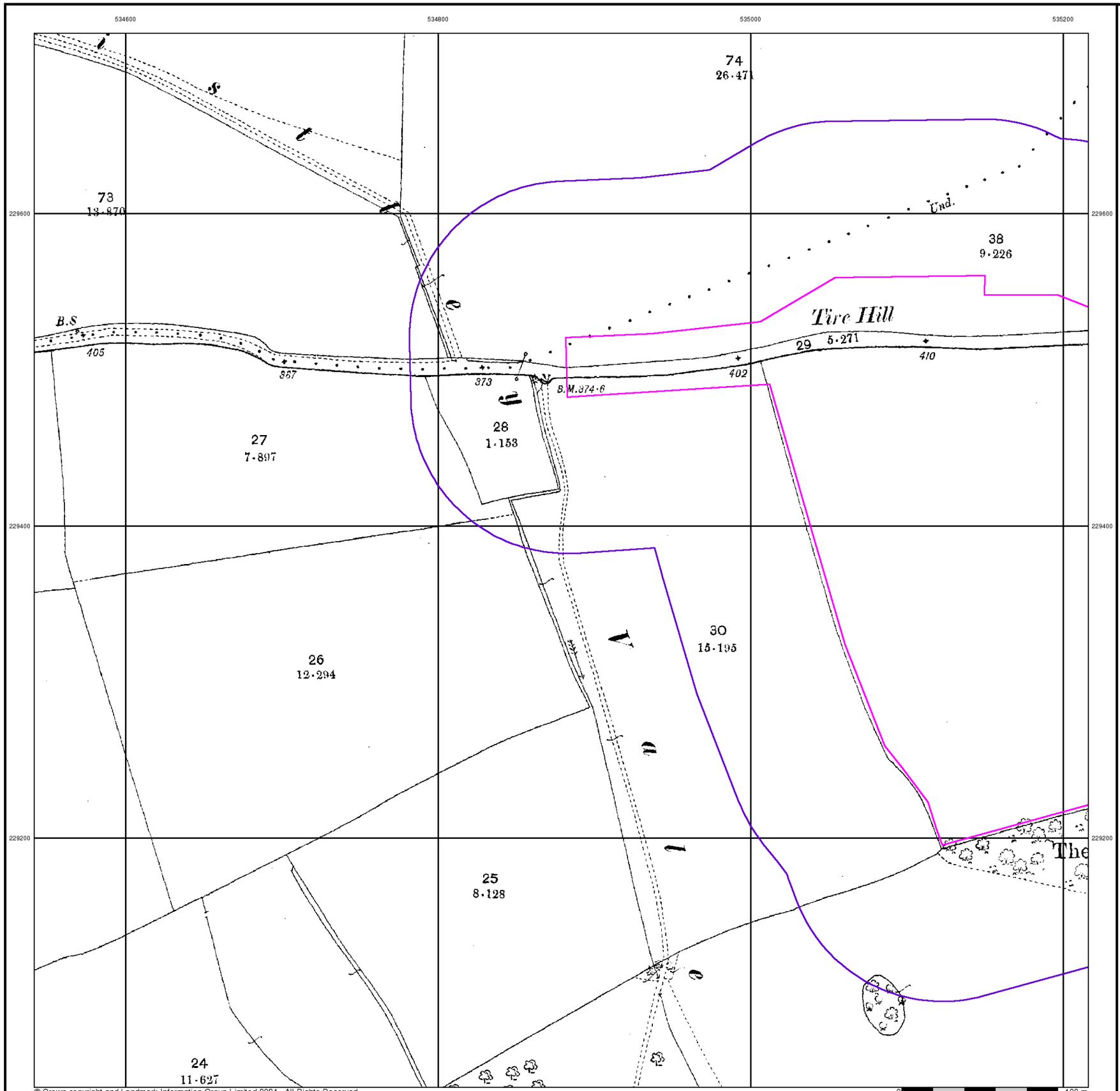
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Jubb

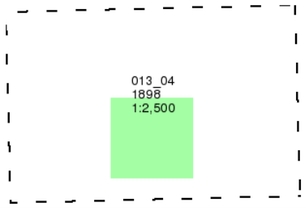
Hertfordshire

Published 1898

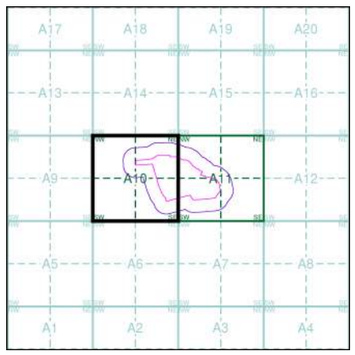
Source map scale - 1:2,500

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 A10



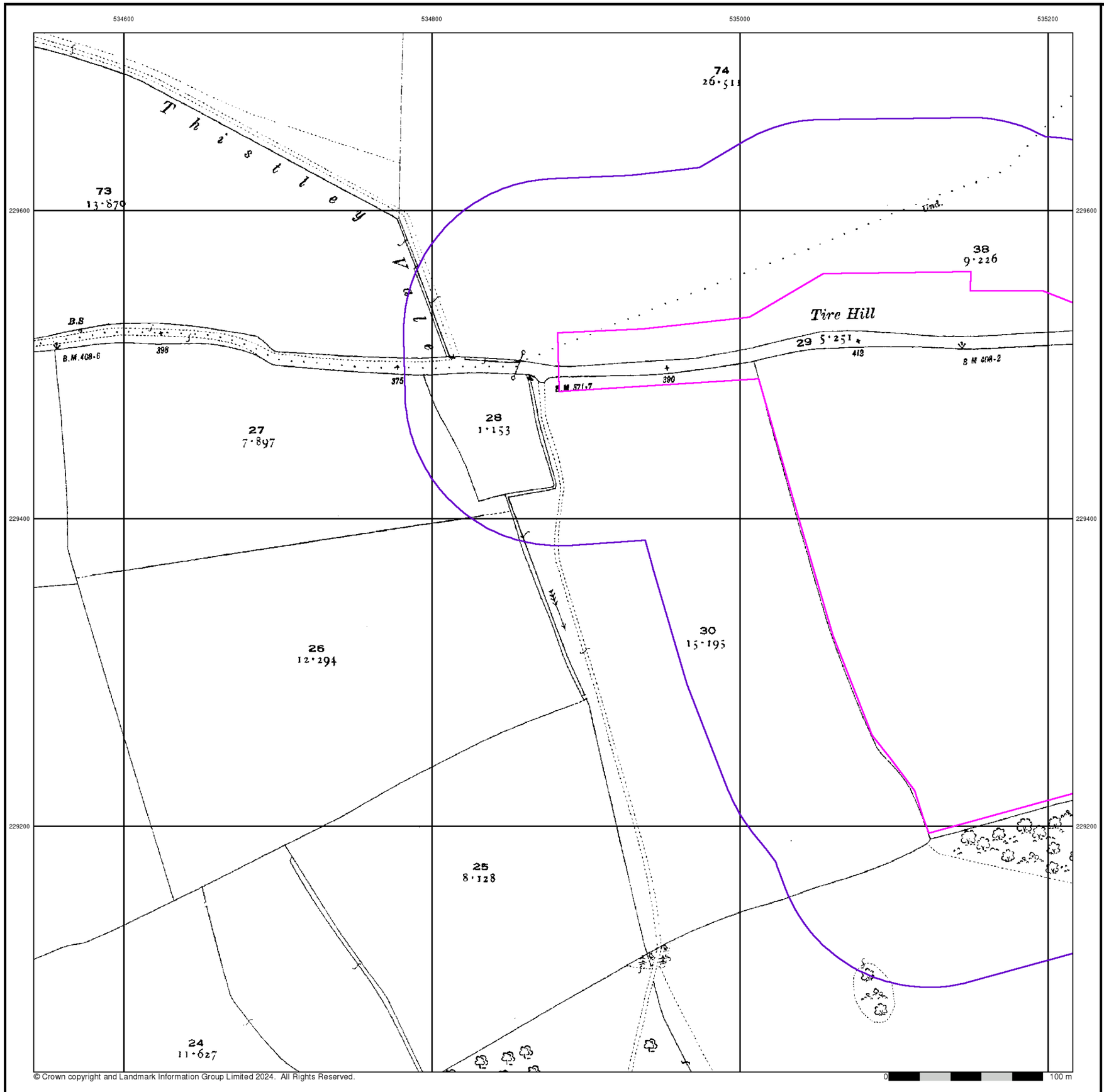
Order Details

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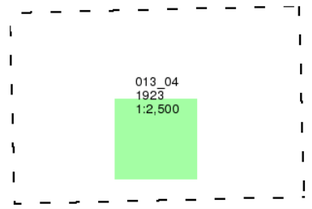
Hertfordshire

Published 1923

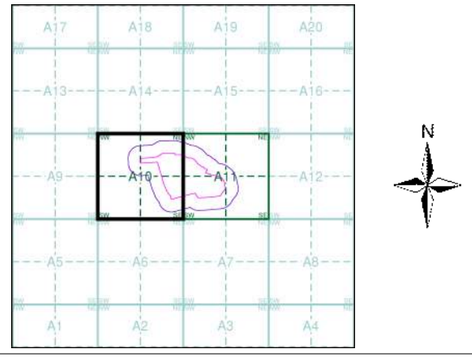
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



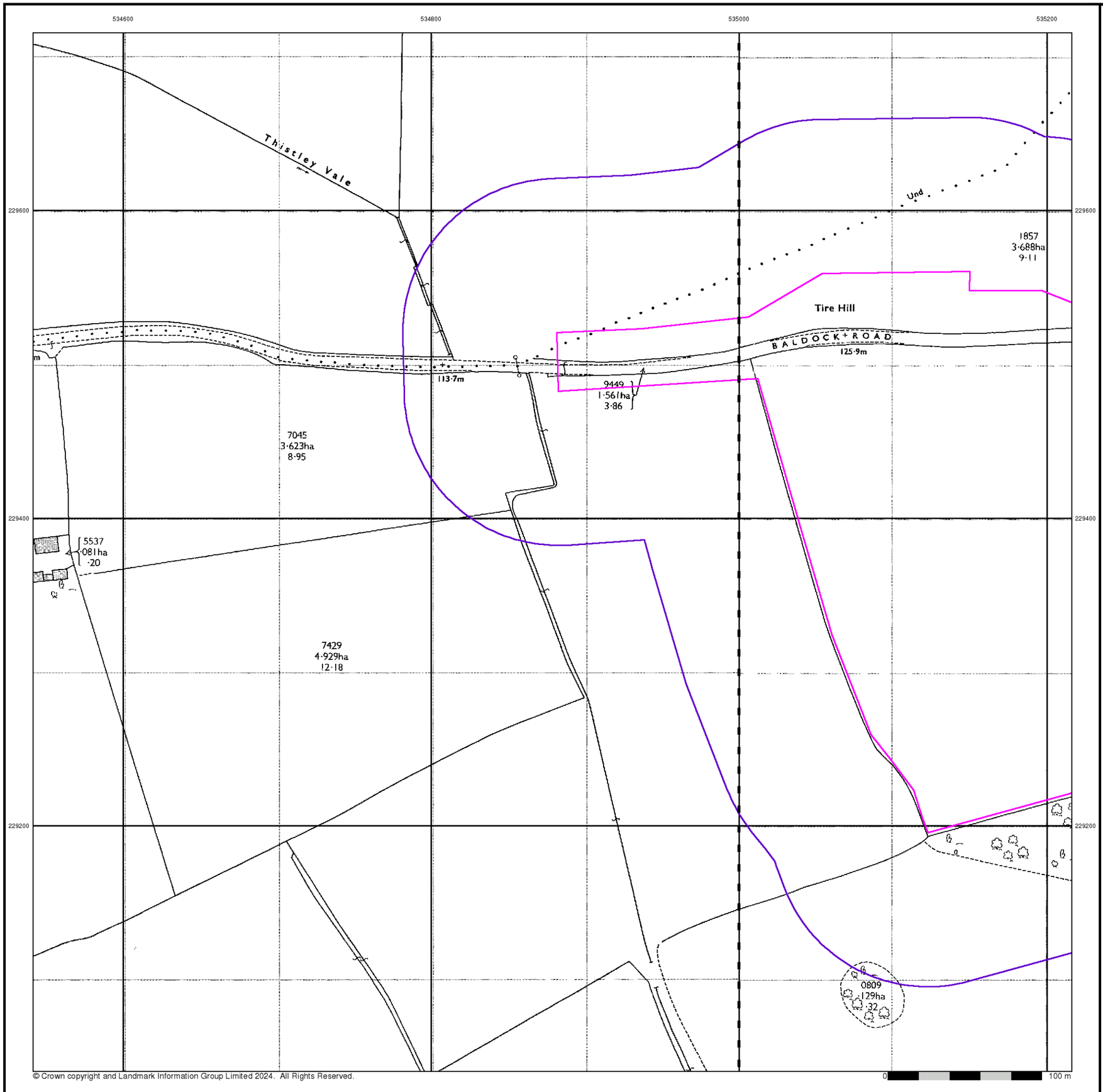
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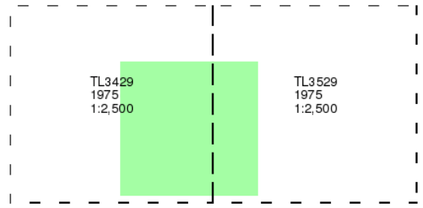
Ordnance Survey Plan

Published 1975

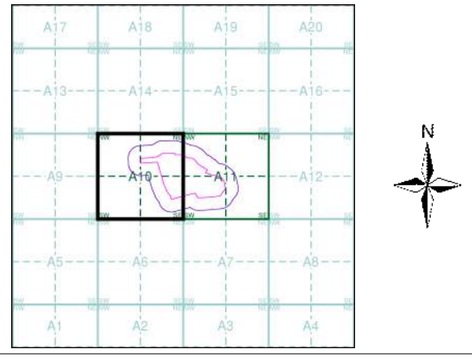
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



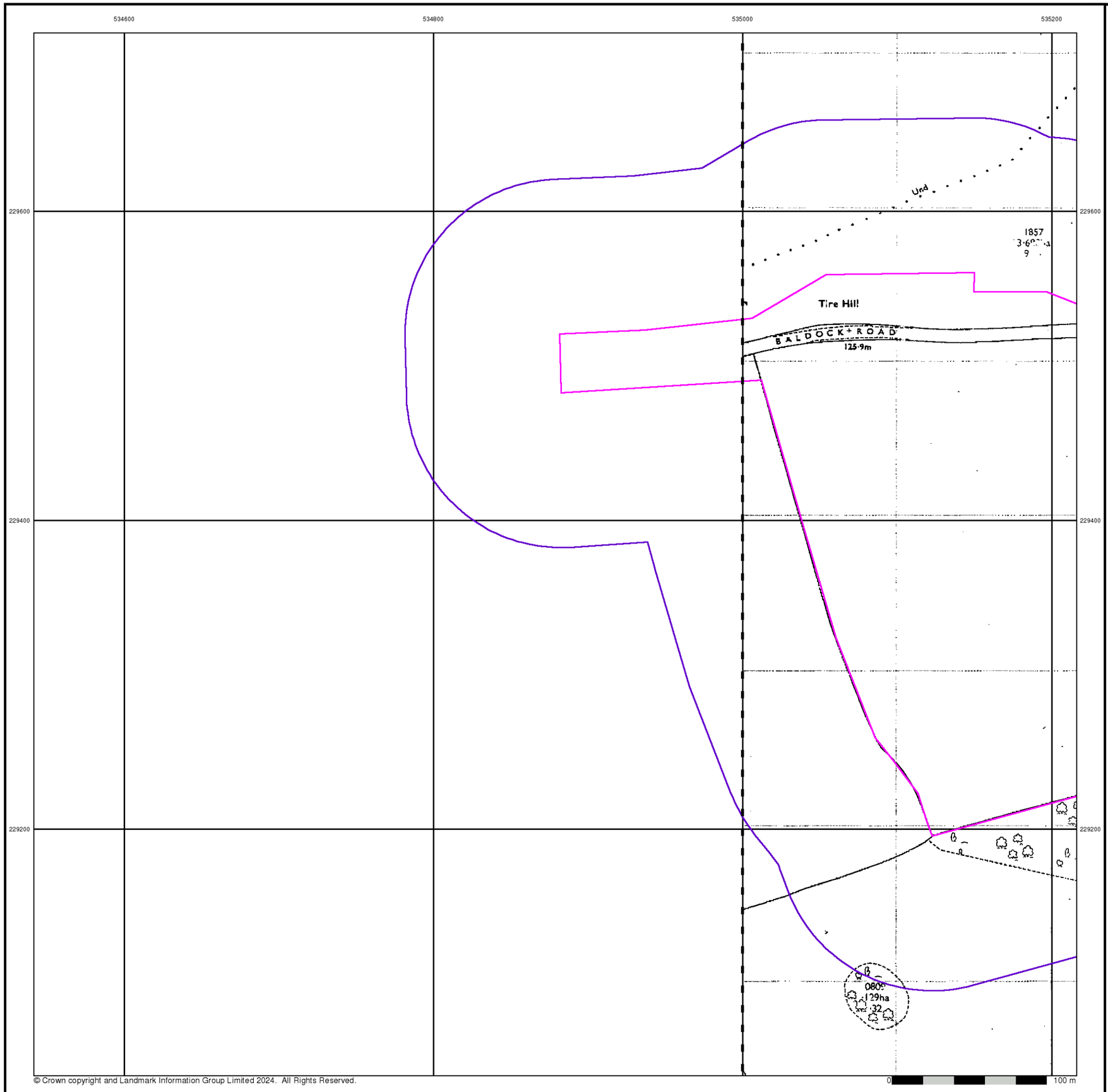
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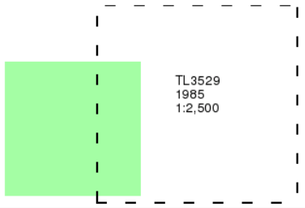
Additional SIMs

Published 1985

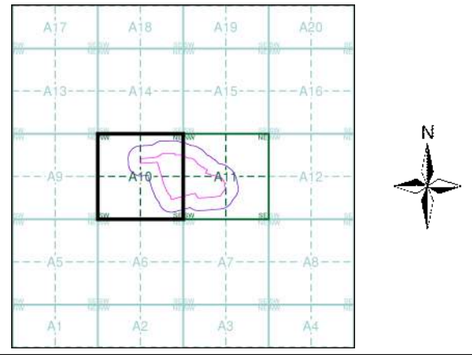
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



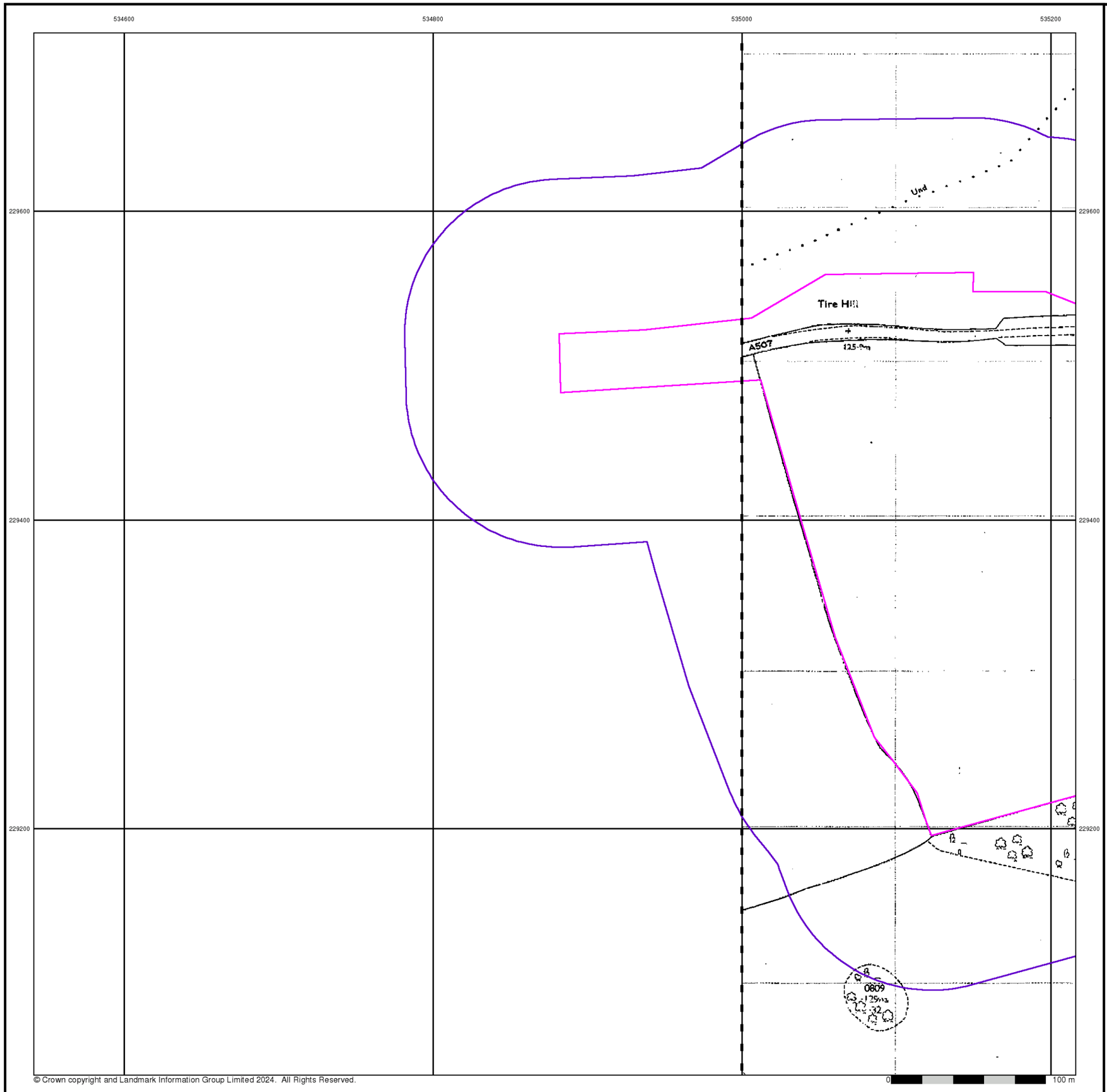
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Customer Ref:	23161 (2)
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Slice:	A
Site Area (Ha):	13.51
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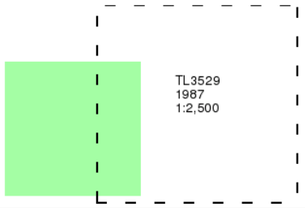
Additional SIMs

Published 1987

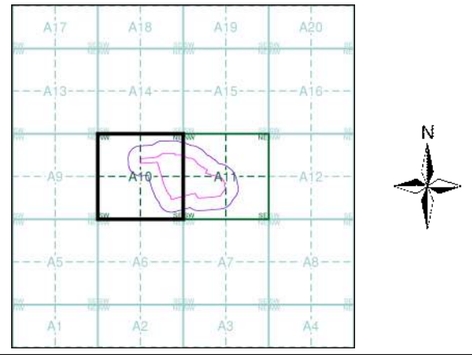
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



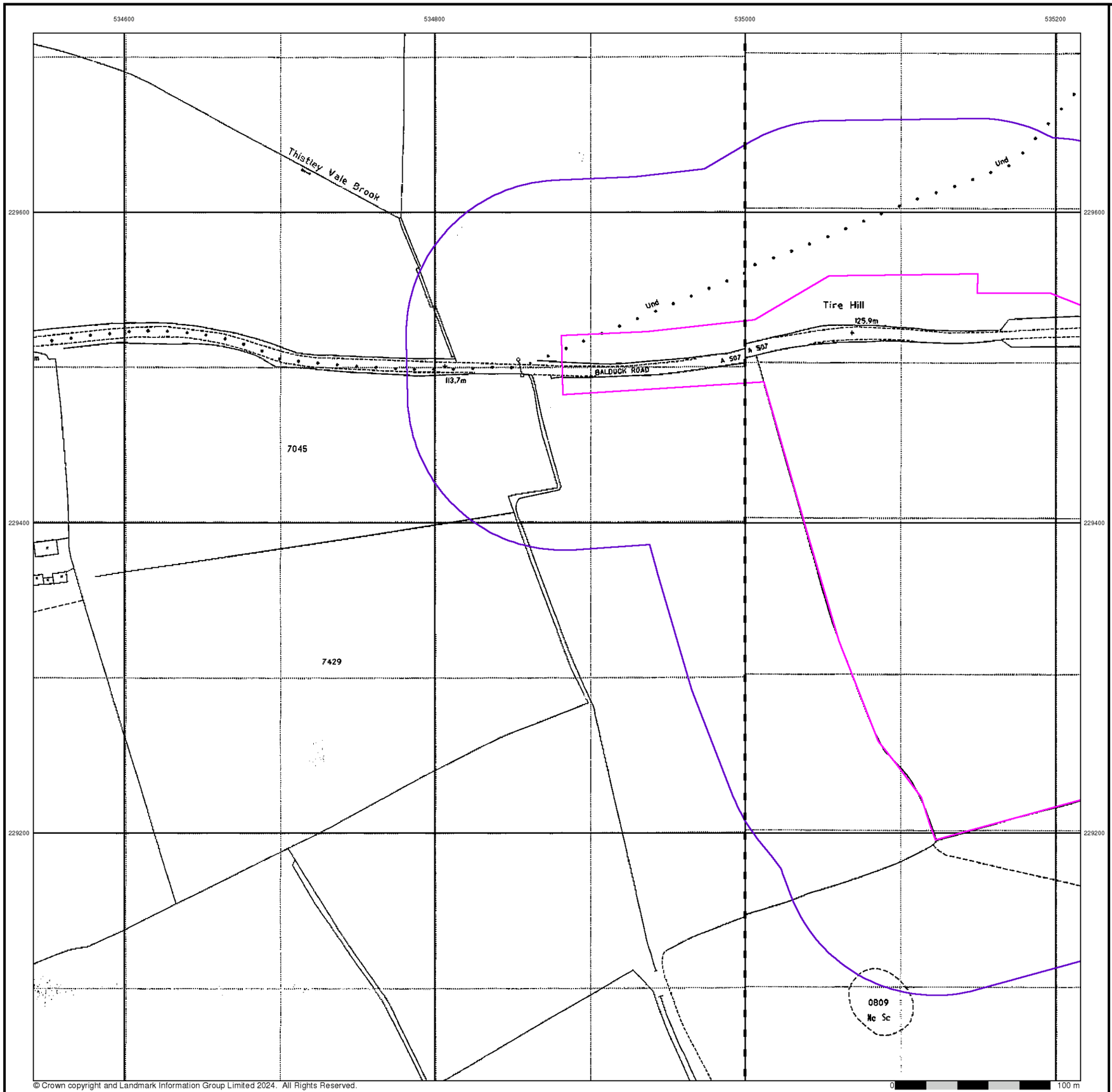
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Slice:	A
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Site Details

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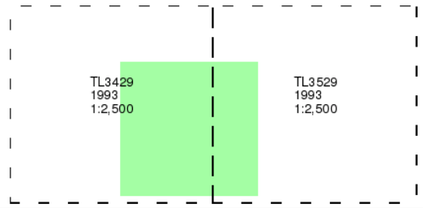
Large-Scale National Grid Data

Published 1993

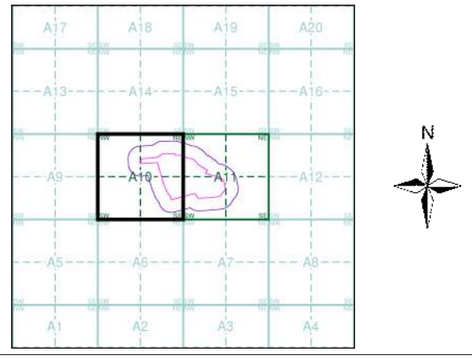
Source map scale - 1:2,500

'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 A10



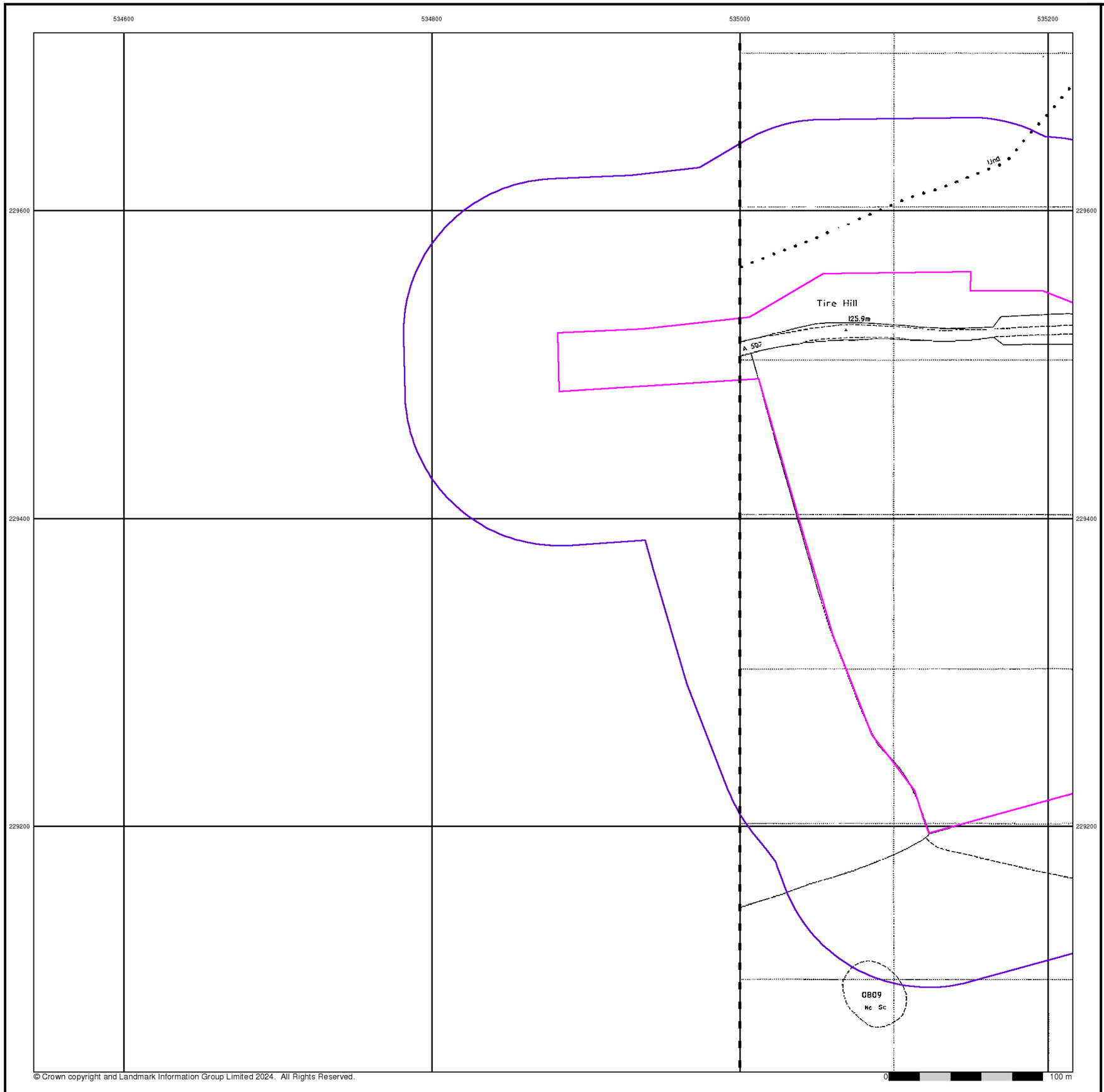
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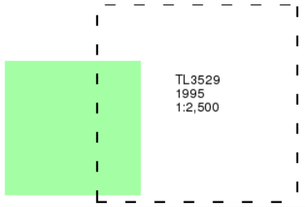
Large-Scale National Grid Data

Published 1995

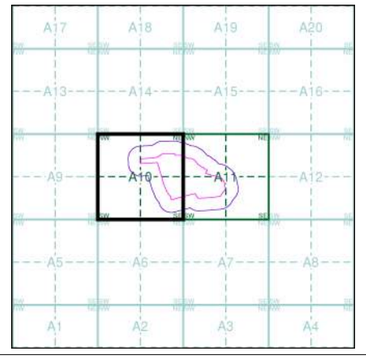
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



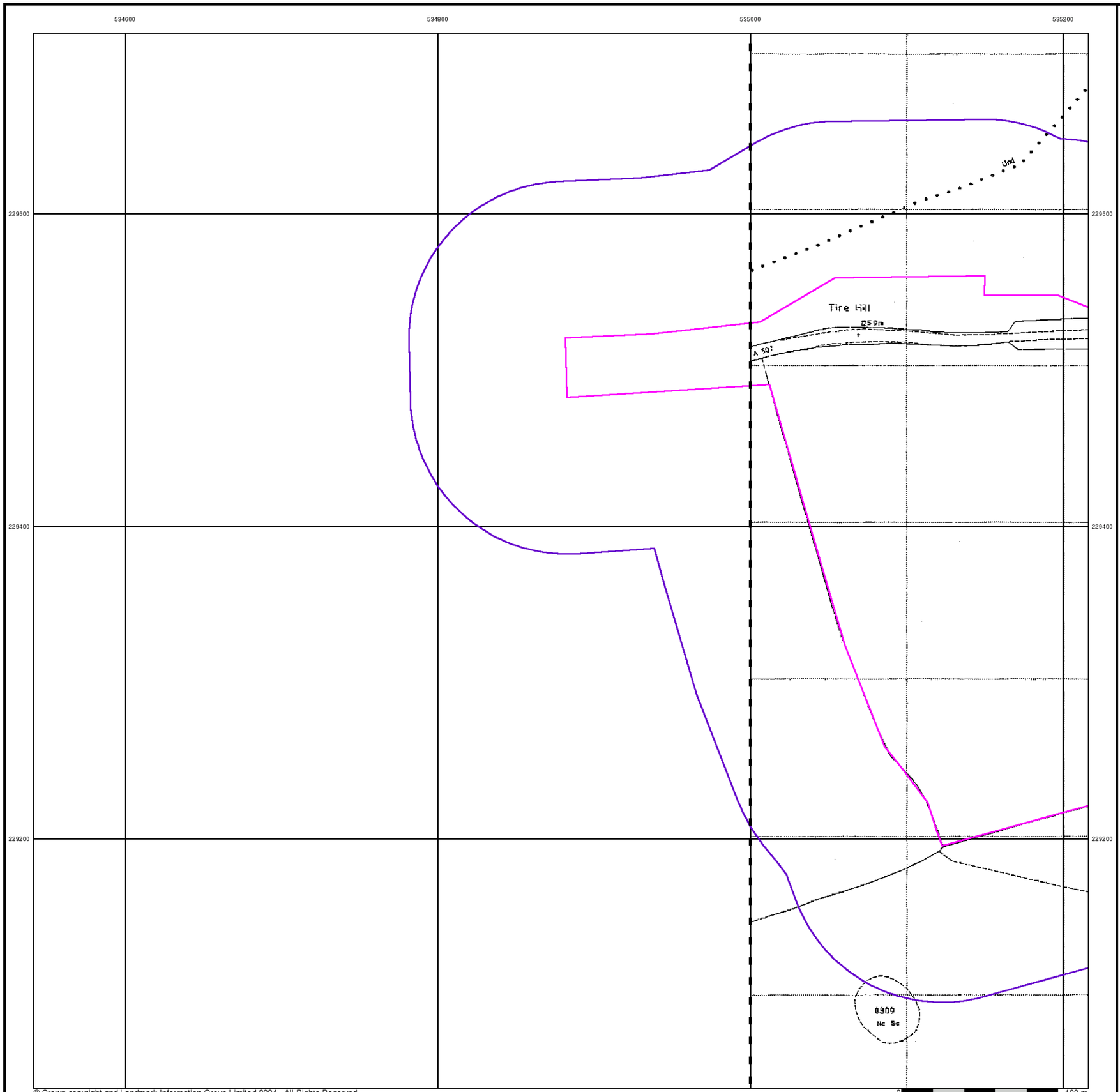
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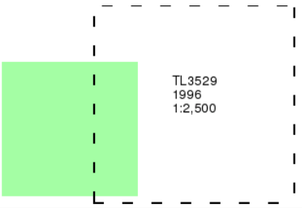
Large-Scale National Grid Data

Published 1996

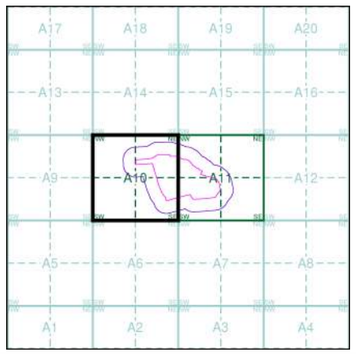
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



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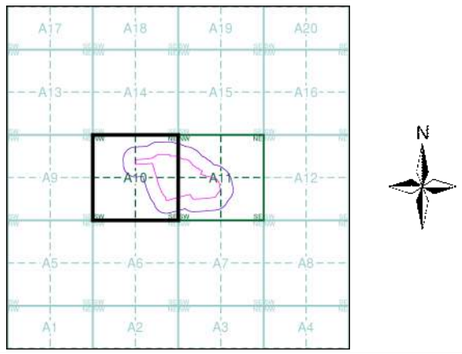


Historical Aerial Photography

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

Historical Aerial Photography - Segment A10



Order Details

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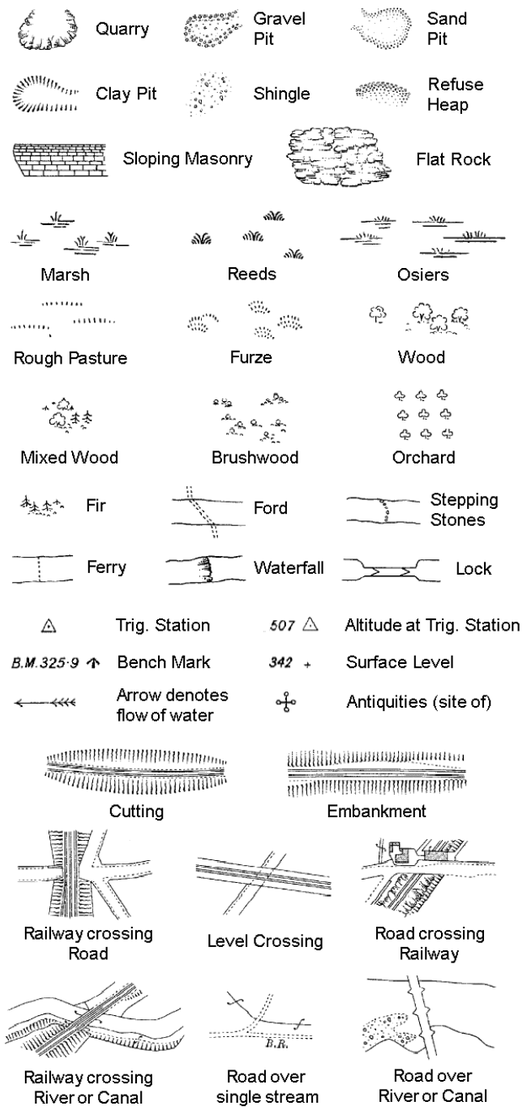
Site Details

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Historical Mapping Legends

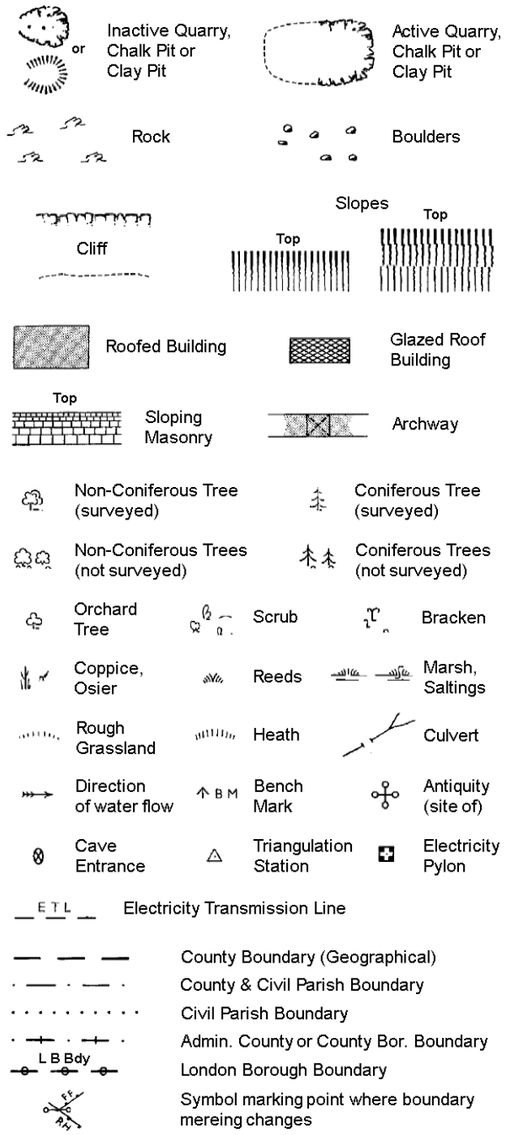
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	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

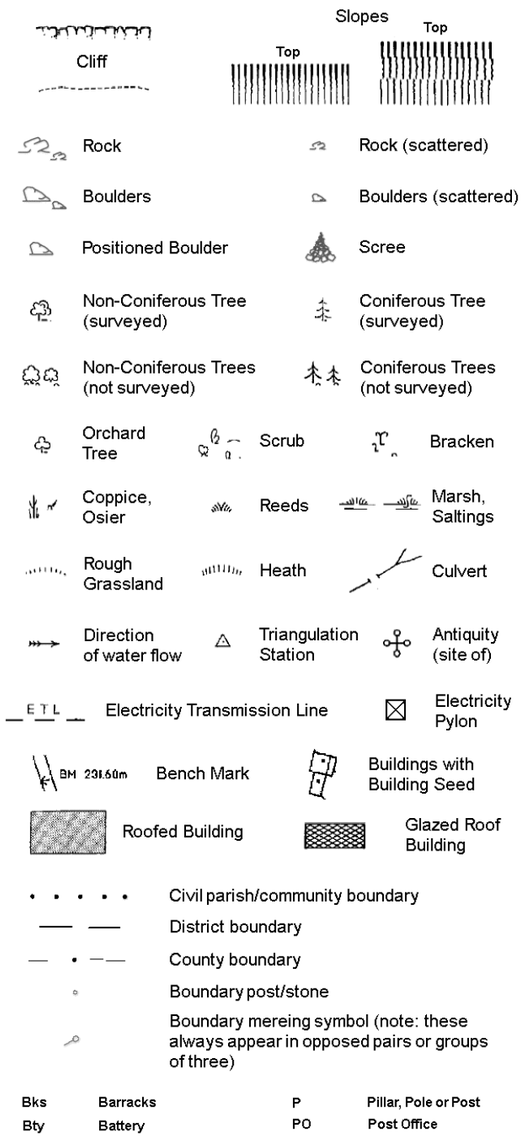
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy 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
El 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



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)

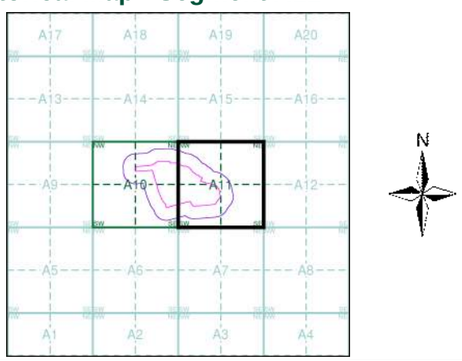
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El 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 Governer	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

Jubb

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	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	1995	9
Large-Scale National Grid Data	1:2,500	1996	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A11



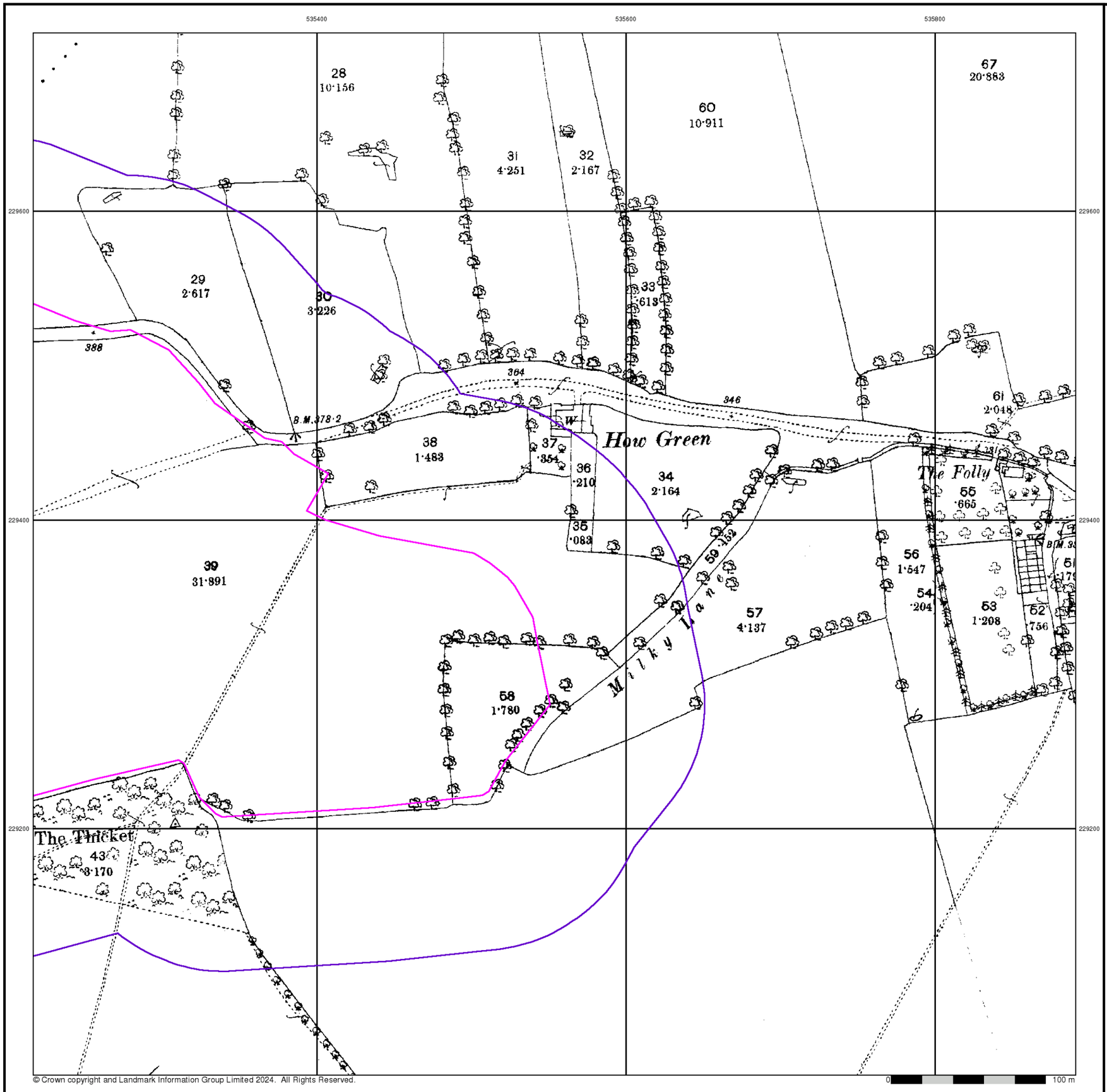
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Order Number:	351867540_1_1
Customer Ref:	23161 (2)
National Grid Reference:	535210, 229380
Slice:	A
Site Area (Ha):	13.51
Search Buffer (m):	100

Site Details

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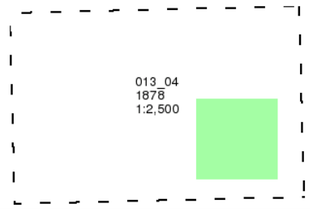
Hertfordshire

Published 1878

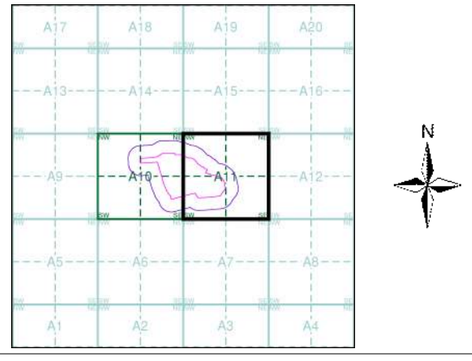
Source map scale - 1:2,500

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



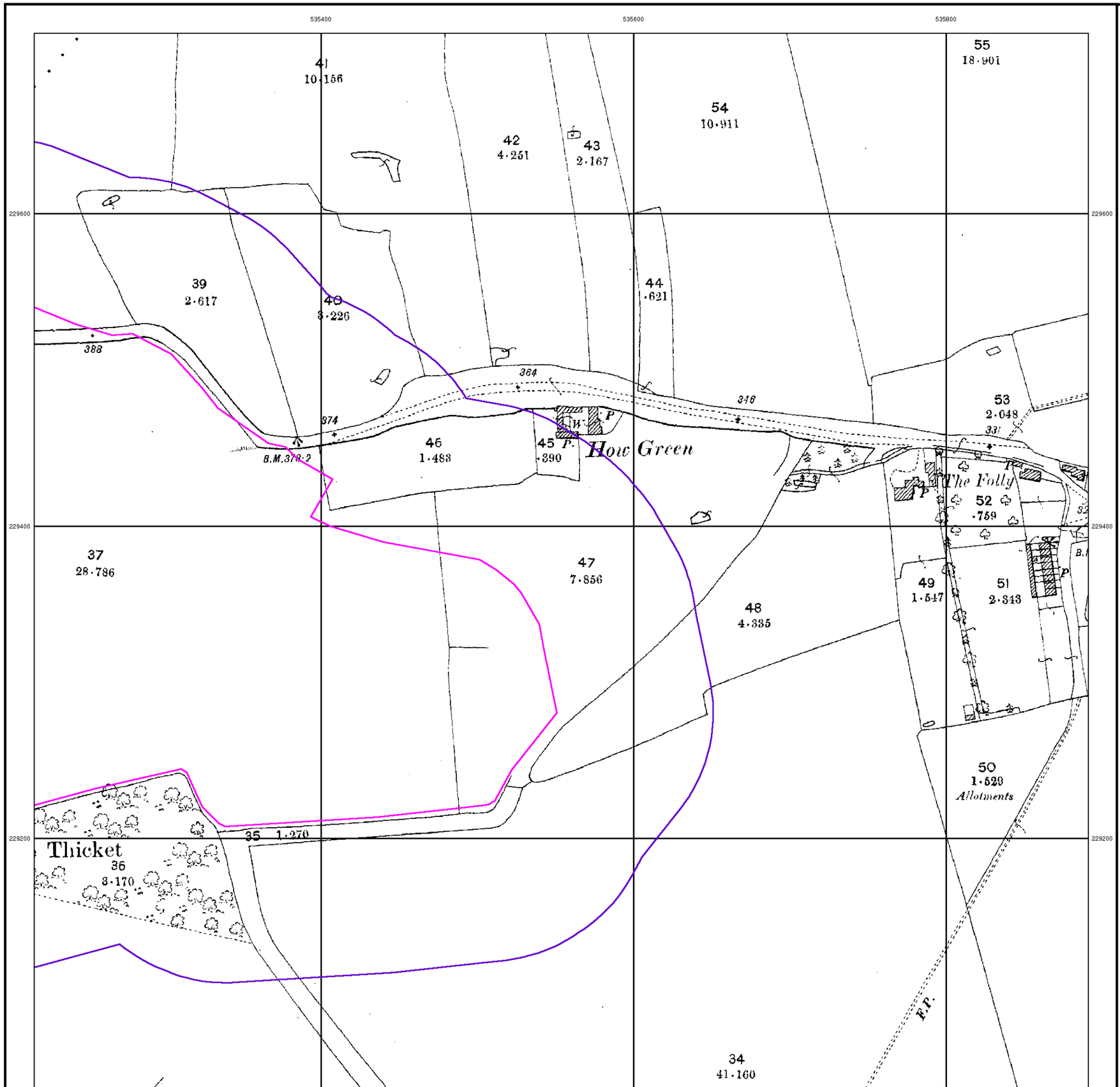
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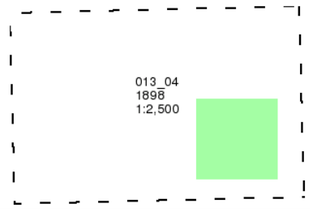
Hertfordshire

Published 1898

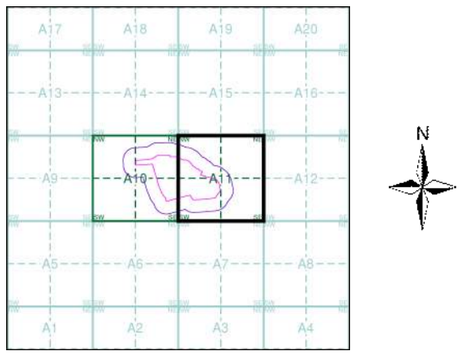
Source map scale - 1:2,500

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Historical Map - Segment A11



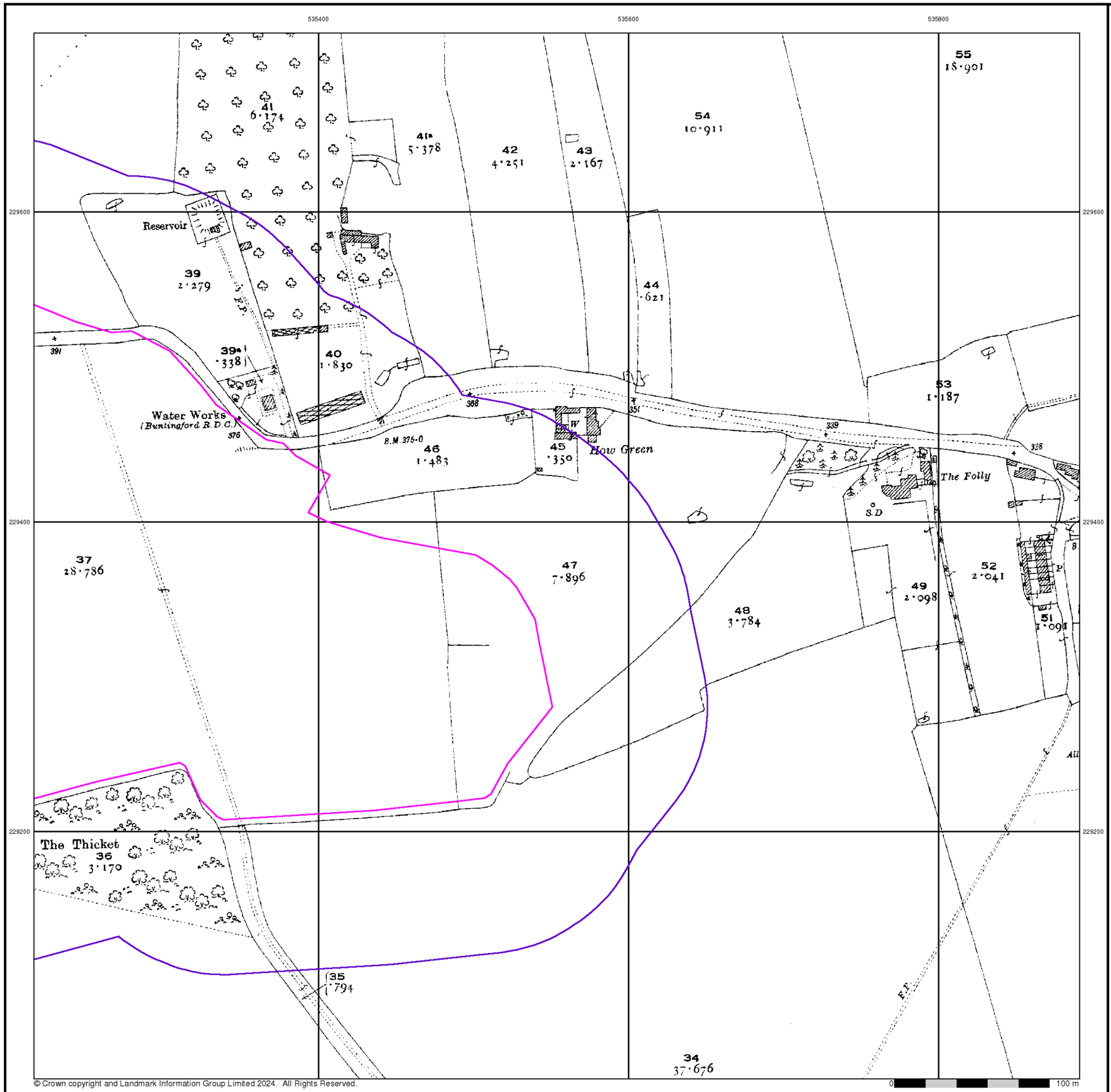
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Jubb

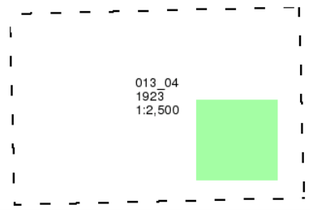
Hertfordshire

Published 1923

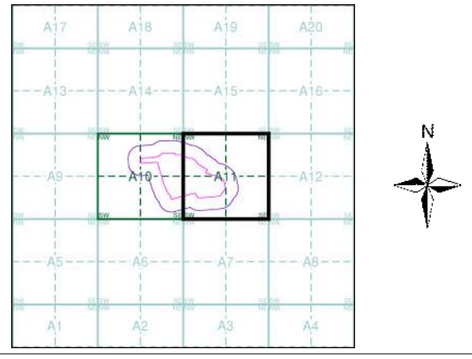
Source map scale - 1:2,500

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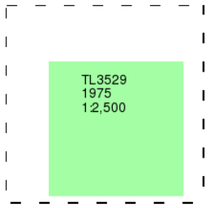
Ordnance Survey Plan

Published 1975

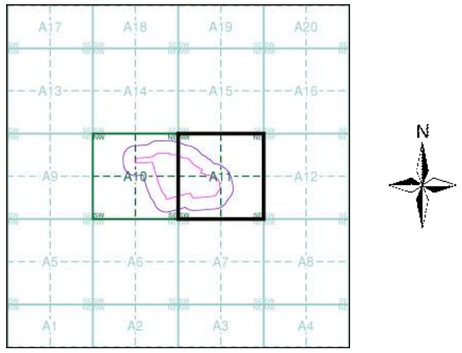
Source map scale - 1:2,500

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0 100 m

Additional SIMs

Published 1985

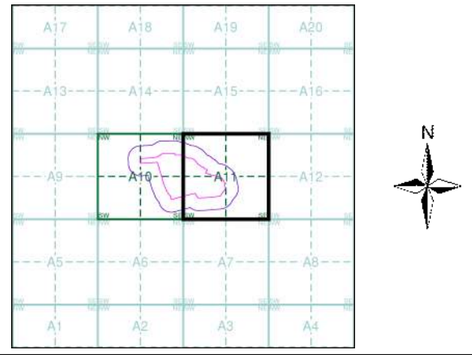
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TL3529
1985
1:2,500

Historical Map - Segment A11



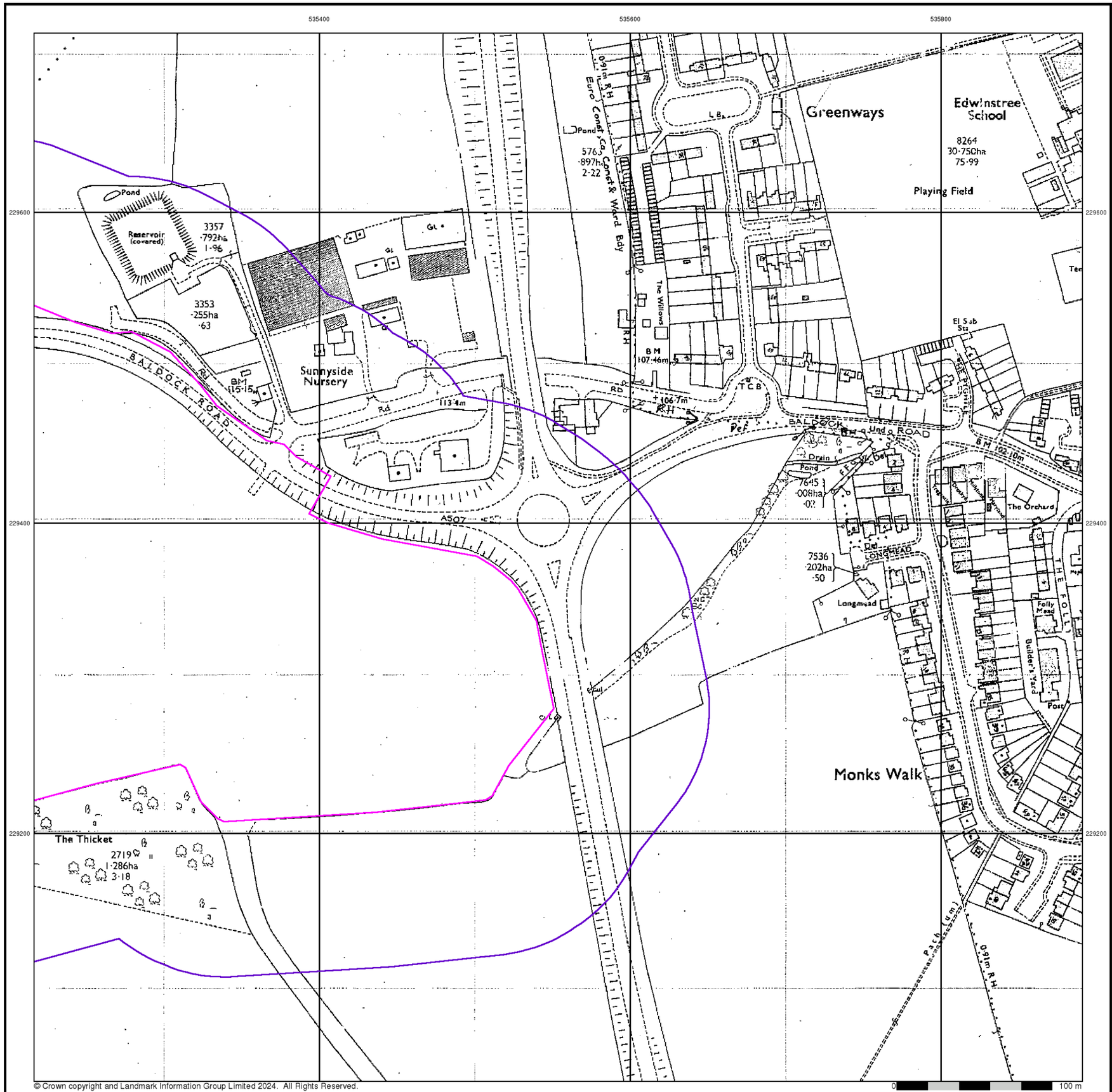
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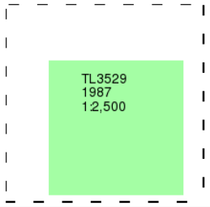
Additional SIMs

Published 1987

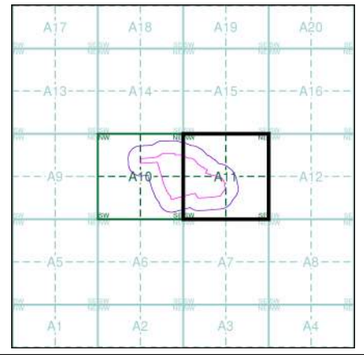
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



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Large-Scale National Grid Data

Published 1993

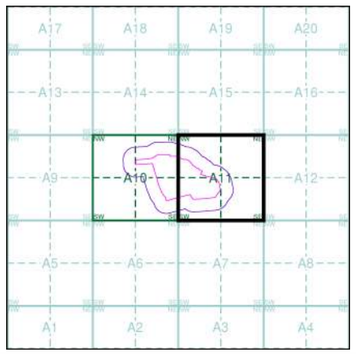
Source map scale - 1:2,500

'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

Historical Map - Segment A11



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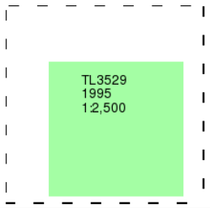
Large-Scale National Grid Data

Published 1995

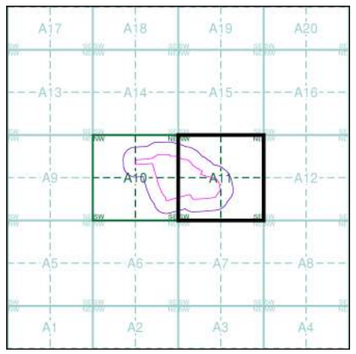
Source map scale - 1:2,500

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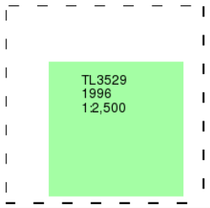
Large-Scale National Grid Data

Published 1996

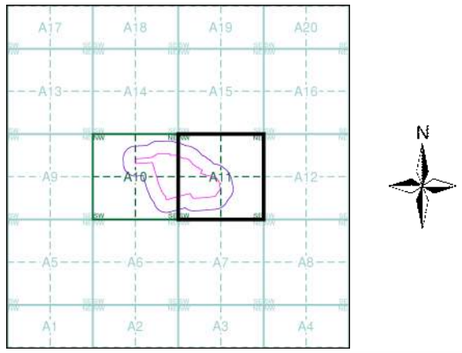
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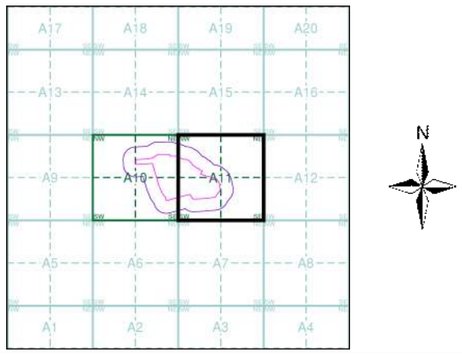


Historical Aerial Photography

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

Historical Aerial Photography - Segment A11



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APPENDIX D: CONTAMINATION RISK ASSESSMENT METHODOLOGY AND DEFINITIONS

CONTAMINATION ASSESSMENT METHODOLOGY

The Environment Agency guidance Land Contaminated Risk Management (LCRM) provides a technical framework for structured decision making about land contamination.

Definition of Hazard and Risk

LCRM defines a hazard as 'a property or situation that in particular circumstances could lead to harm or pollution'. LCRM defines a risk as 'a combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'

The Concept of the 'Pollutant Linkage'

In the context of contaminated land, there are three essential elements to any risk:

- a **contaminant (or source)** – a substance that is in, on or under land and has the potential to cause harm or cause pollution of controlled waters.
- a **receptor** - humans, ecological system, water body or property.
- a **pathway** – a route or means by which a receptor can be exposed to, or affected by, a contaminant.

Each of these elements can exist separately; however, they create a risk only where they are linked together forming a **pollutant linkage**.

Conceptual Site Models

A conceptual site model represents the characteristics of the site in diagrammatic or written form that shows the possible relationships between contaminants, pathways and receptors (pollutant linkages).

For all potential pollutant linkages identified, the *consequence* and *probability* of occurrence is qualitatively assessed, and a *risk* assigned.

The Tiered Risk Assessment Approach

LCRM presents a tiered approach to risk:

Tier 1 *Preliminary risk assessment (PRA)*
The purpose of the preliminary risk assessment is to develop an initial conceptual model of the site and to establish whether or not there are potentially unacceptable risks. If potential risks are identified the initial conceptual model is developed in subsequent tiers of the risk assessment process.

Tier 2 *Generic quantitative risk assessment (GQRA)*
The purpose of the generic quantitative risk assessment is to establish whether generic assessment criteria and assumptions are appropriate for assessing the risks and, if so, to apply them to establish whether there are actual or potential unacceptable risks. It also determines whether further detailed quantitative risk assessment is required.

Tier 3 *Detailed quantitative risk assessment (DQRA)*
The purpose of the detailed quantitative risk assessment is to establish and use more detailed site specific information and criteria to decide whether there are unacceptable risks. It may be used as the sole method of quantitative assessments of risks, or it may be used to refine earlier assessments using generic assessment criteria.

RISK ASSESSMENT DEFINITIONS

General

The following classification and definition of risk assessment has been based on that set out in NHBC and EA Publication R&D 66 – Guidance on the Safe Development of Housing on Land Affected by Contamination (2008).

The key to the classification is that the designation of risk is based upon the consideration of both:

a) **the magnitude of the potential consequence (i.e. severity)**, which considers both the potential severity of the hazard, and the sensitivity of the receptor**.**

b) **the magnitude of probability (i.e. likelihood)**, which considers both the presence of the hazard, the receptor, and the integrity of the pathway.

Classification of Consequence

Classification	Definition	Examples
Severe	Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population. Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of List I and II substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.
Mild	Exposure to human health unlikely to lead to "significant harm". Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce. Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population. Minor damage to crops, buildings or property.	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.
Minor	No measurable effect on humans. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.

** For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.*

Classification of Probability

Only applies if there is a possibility of a pollutant linkage being present.

Classification	Definition	Examples
High likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.	a) *Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden.* b) *Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50*
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	a) *Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space.* b) *Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.*
Low likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	a) *Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space.* b) *Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.*
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	a) *Elevated concentrations of toxic contaminants are present below hard standing.* b) *Light industrial unit <10 yrs. old containing a double-skinned UST with annual integrity testing results available.*

Note: A pollution linkage must first be established before probability is classified. If there is no pollution linkage, then there is no potential risk. If there is no pollution linkage, then there is no need to apply tests for probability and consequence.

For example, if there is surface contamination and a major aquifer is present at depth, but this major aquifer is overlain by an aquiclude of significant thickness then there is no pollution linkage and the risks to the major aquifer are not assessed. The report should identify both the source and the receptor but state that because there is no linkage there are no potential risks.

The Classification of Risk

Probability		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

Description of the Classified Risks

Very high risk
There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

High risk
Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.

Moderate risk
It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

Low risk
It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

Very low risk
It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

No potential risk
There is no potential risk if no pollution linkage has been established.

Definitions

Term	Definition
Probability	The mathematical expression of the chance of a particular event in a given period of time [e.g. probability of 0.2 is equivalent to 20% or a 1 in 5 chance].
Impact	The adverse effects (or harm) arising from a defined hazard which impairs the quality of the environment or human health in the short or longer term.
Pollution linkage	An identified pathway is capable of exposing a receptor to a contaminant and that contaminant is capable of harming the receptor.

APPENDIX E: LIMITATIONS AND EXCEPTIONS

Limitations and Exceptions

1. The advice given in this report is based on the guidelines available at the time of writing.

2. As part of this study and in line with standard industry practice, reasonable efforts have been made to obtain and review readily available information pertaining to the site. However, JCE does not guarantee that all relevant sources of information have been uncovered and reviewed.

3. This study was conducted so as to generally comply with the relevant principles and requirements of BS10175: 2011 "Investigation of potentially contaminated sites - Code of Practice" and BS 5930:2015 “Code of Practice for Site Investigations”.

4. The Client is advised that the conditions observed on site by Jubb Consulting Engineers Ltd (JCE) at the time of the study or assessment are subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance or investigation and they may subsequently have become observable. Ground conditions, including geotechnical properties may vary between points of observation, sampling and testing.

4. Where it’s identified in this report that certain areas of site had restricted access or were inaccessible due to the presence of in-use buildings, facilities and live services, these may require further investigation outside the scope of this present investigation.

5. Comments made relating to ground gas or groundwater conditions are based on observations made at the time of an investigation unless otherwise stated. Ground gas and groundwater conditions may vary as a result of seasonal or other effects.

6. Ground contamination often exists as small discrete areas of contamination and there can be no certainty that any or all such areas have been located, sampled and/or identified.

7. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from previous site investigations and chemical and geotechnical testing laboratories, and which JCE has assumed are correct. Nevertheless, JCE cannot and does not guarantee the authenticity or reliability of the information it has used or cited. JCE can accept no responsibility for inaccuracies within the data supplied by other parties.

8. This report is written in the context of an agreed scope of work between JCE and the Client and should not be used in a different context. In the light of additional information becoming available, improved practices and changes in legislation, amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.

9. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.

10. This report is not a specification for works.

11. JCE believes that providing information about limitations is essential to help the Client identify and thereby manage risks.

12. JCE does not provide legal advice and the advice of the Clients’ legal advisors may also be required.

13. JCE retain the copyright in this report and all drawings reproduced in it.