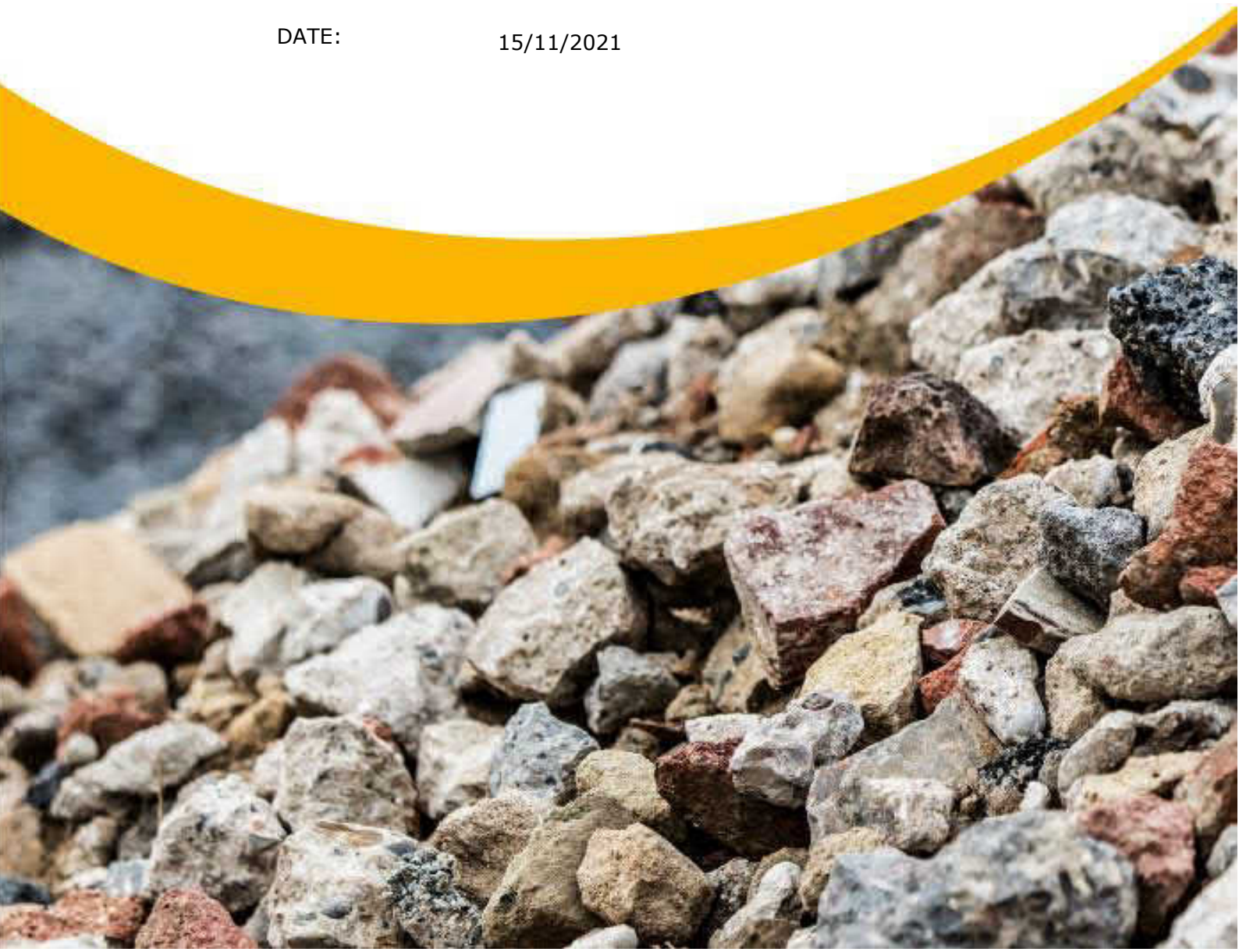
GEOSPHERE ENVIRONMENTAL

REPORT NUMBER: 6020,DS,DESK,HS,GF,15-11-2021

SITE: Farmside, Shotley, Ipswich, IP9 1EY

DATE: 15/11/2021



## DOCUMENT CONTROL SHEET

| | |
|---|---|
| Report Number: | 6020,DS,DESK,HS,GF,15-11-2021 |
| Client: | Ms. Lauren Meredith c/o Richard Edwards Associates |
| Project Name: | Farmside, Shotley, Ipswich, IP9 1EY |
| Project Number: | 6020,DS |
| Report Type: | Phase 1 – Desk Study and Preliminary Risk Assessment |
| Status: | Final |
| Date of Issue: | 15 November 2021 |

**Issued By:**

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|---|---|---|
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**VERSION RECORD**

| Version: | Date: | Document Details: | Prepared By: | Admin: |
|---|---|---|---|---|

# EXECUTIVE SUMMARY

| | |
|---|---|
| **Introduction** | Geosphere Environmental Ltd was commissioned by Richard Edwards Associates on behalf of the Client: Ms Lauren Meredith, to undertake a Phase 1 Desk Study and Preliminary Risk Assessment for a proposed residential development at Farmside, Shotley, Ipswich, IP9 1EY.<br>It was understood that the existing residential site is to be developed with a replacement residential dwelling including associated infrastructure and areas of private garden. |
| **Site Location** | The subject site was situated approximately 1.9km northeast of Shotley and may be located by National Grid Reference (NGR) TM 22171 36350. |
| **Site Description** | At the time of the walkover, the site comprised a residential lot with a single- storey dwelling, a shed and area of private garden bordered by leylandii. The dwelling and shed were inaccessible at the time of the walkover. The garden was laid to turf with some evidence of localised burning, isolated trees (apple and cherry), areas of waste and a suspected collapsed outbuilding. A small waste oil bucket had impacted surface soils in its immediate vicinity. |
| **History** | The earliest available historical mapping (1881) shows the site as part of agricultural fields. The wider area was also shown to be agricultural with associated farms and structures.<br>The site was developed with two structures between 1928 and 1958 and has remained largely unchanged since this time. There was some development of Peartree Farm to the north, including a small orchard immediately north of the site, and of residencies to the south but the wider area has also remained largely unchanged since 1881. |
| **Preliminary Conceptual Site Model** | The desk-based research and historical review identified the following potential hazards on and offsite:<br>• On and Offsite: Historical construction activities.<br>• Onsite: Localised areas of burning (bonfires).<br>• Onsite: Localised waste oil and oil container storage.<br>• Onsite: Use of the on-site structures (assumed residential).<br>• Offsite: Landfill to the north.<br>• Offsite: Use of the adjacent farmyard and small orchard. |
| **Conclusions** | Based upon the findings of the preliminary risk assessment and site walkover, a number of potential contaminant sources and pathways to potential receptors have been identified. |
| **Further Work** | It is recommended that a preliminary intrusive ground investigation is undertaken to determine the extent of any potential contamination within the soil strata. |

| | | |
|---|---|---|
| | | It is recommended that this report be submitted to the Local Authority as part of the planning submission for the site. |

**This Executive Summary only provides a summary of the site data and its assessment. It does not provide a definitive engineering analysis and is for guidance only. It is recommended that the reader reviews the report in its entirety and any material referenced therein.**

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## TABLES

# 1. INTRODUCTION

Geosphere Environmental Ltd was commissioned by Richard Edwards Associates on behalf of the Client: Ms. Lauren Meredith, to undertake a Phase 1 Desk Study and Preliminary Risk Assessment for a proposed residential development at Farmside, Shotley, Ipswich, IP9 1EY.

It was understood that the existing residential site is to be developed with a replacement residential dwelling including associated infrastructure and areas of private garden.

The primary objectives of the preliminary risk assessment were to:

- Provide an assessment of environmental sensitivity at the site and the surrounding area in relation to any suspected or known contamination which may significantly affect the site and the proposed development; and
- Indicate whether further works are required, and the nature of the works, to enable a more complete assessment of the site.

These were achieved by:

- Undertaking a walkover of the site;
- Researching and assessing the available information regarding the current site status, including recorded geology, hydrogeology and hydrology of the site and surrounding area and the history of the site; and
- Developing a Preliminary Conceptual Site Model.

No proposed development plan had been provided at the time this report was prepared.

# 2. SITE SETTINGS

## 2.1 Site Location

The subject site was situated approximately 1.9km northeast of Shotley and may be located by National Grid Reference (NGR) TM 22171 36350.

## 2.2 Site Description

A site walkover was undertaken on 09 November 2021. At the time of the walkover, the site comprised a residential lot with a single-storey dwelling, a shed and area of private garden bordered by leylandii. The dwelling and shed were inaccessible at the time of the walkover. The garden was laid to turf with some evidence of localised burning, isolated trees (apple and cherry), areas of waste and a suspected collapsed outbuilding. Areas of waste included domestic goods, car parts, a boat, wood, metal, plastic, some lubricant and oil containers (small – 5L) and an uncovered, un-bunded bucket of waste oil (20L). There was some evidence of oil staining on the ground around the waste oil bucket.

A Site Location Plan, and Site Plan are included within Appendix 6 as Drawing references 6020,DS/001/Rev0 and 6020,DS/002/Rev0 respectively.

Photographic records from the walkover are presented in Appendix 7 of this report.

## 2.3 Geological Setting

Details of the geology underlying the site have been obtained from the British Geological Survey (BGS) digital mapping at a scale of 1:50,000, which is provided within the Envirocheck Report included in Appendix 4.

### 2.3.1 Superficial Deposits

The geological map indicated the site to be underlain by superficial deposits of the Kesgrave Catchment Subgroup (sand and gravel).

As the site has previously been developed, although not indicated as present upon the site, the possibility that Made Ground is present, cannot be discounted.

### 2.3.2 Bedrock Geology

The geological map indicated bedrock geology underlying the site comprised Crag Formation (sand).

### 2.3.3 Geohazards and Ground Workings

Table 1 below, summarises the factors that may have a potential impact upon the engineering of the proposed development:

**Table 1 – Geohazards and Ground Workings**

| Potential Hazard | Recorded Risk [m] / [Direction] | | Comments |
|---|---|---|---|
| | Onsite | Within 250m | |
| Non-Coal Mining Areas of Great Britain. | No Hazard. | - | |
| Collapsible Ground. | Very Low. | - | |
| Compressible Ground. | No Hazard. | - | |
| Ground Dissolution. | No Hazard. | - | |
| Landslide. | Very Low. | - | |
| Running Sand. | No Hazard. | 128m/E – Low. | |
| Shrinking or Swelling Clay. | No Hazard. | - | |

## 2.4 Hydrogeological Setting

### 2.4.1 Underlying Aquifers

The hydrogeological data provided within the Envirocheck Report indicate Secondary Type A Aquifer overlying a bedrock Principal Aquifer.

The Environment Agency defines a Principal Aquifer as 'layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale'.

**Secondary Aquifer Type A** - permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

### 2.4.2 Groundwater Vulnerability

The Environment Agency defines areas of high groundwater vulnerability as 'areas able to easily transmit pollution to groundwater. They are characterised by high leaching soils and the absence of low permeability superficial deposits.

Soils of intermediate leaching potential are soils that can possibly transmit a wide range of pollutants, or are soils that can "…possibly transmit non or weakly adsorbed pollutants and liquid discharges but are unlikely to transmit adsorbed pollutants".

### 2.4.3 Source Protection Zones

The site was not located within a groundwater source protection zone (SPZ).

There were no groundwater abstraction wells within 500m of the site. The closest groundwater well was situated approximately 913m to the east of the site and was used for general farming/domestic purposes.

## 2.5 Hydrological Setting

The nearest surface watercourse or feature was an Inland River, located approximately 355m east of the site.

The closest surface water abstraction was located 796m to the north for spray irrigation.

## 2.6 Radon

The site is indicated to lie within an area where there is a probability of <1% of present or future homes being above the action level of 200Bq/$m^3$. As such, the site is not classified as a Radon Affected Area.

## 2.7 Nitrate Vulnerable Zone

The site was located within the Sandlings and Chelmsford groundwater nitrate vulnerable zone.

The Nitrates Directive, (ref. **R.4**) defines a nitrate vulnerable zone as:

- Surface freshwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l;
- Groundwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l; and/or
- Natural freshwater lakes or other freshwater bodies, estuaries, coastal waters and marine waters, which are eutrophic or may become so in the near future if protective action is not taken.

# 3. ENVIRONMENTAL SEARCHES

## 3.1 Environmental Searches Summary

The environmental searches are detailed fully within the Envirocheck Report presented within Appendix 3. Table 2 shown below, summarises the most relevant findings:

**Table 2 - Environmental Searches Summary**

| Activity | Distance From the Site | | | Comments [m]/[direction] |
|---|---|---|---|---|
| | Onsite | Within 250m | 250m to 500m | |
| **1. Incidents and Registers** | | | | |
| Discharge Consents. | **-** | - | - | Closest, 951m/E - Sewerage Discharges – Final/Treated Effluent – Not Water Company into Freshwater Stream / River. |
| **2. Flooding** | | | | |
| Extreme Flooding from Rivers or Sea without Defences. | **-** | 1 | **-** | 11m/SW. |
| BGS Groundwater Flooding Susceptibility. | - | - | - | Limited Potential for Groundwater Flooding to Occur. |
| **3. Landfills and Waste Treatment / Disposal Sites** | | | | |
| Historical Landfill Sites. | - | - | 1 | 257m/N – Red House Farm, EAHLD03367, Commercial and household waste. |
| Local Authority Recorded Landfill Sites. | - | 1 | - | 238m/N – Red House Farm, Closed. |
| **4. Contemporary Trade Entries of Concern** | | | | |
| Manufacturing and Production. | - | - | 1 | 476m/NE – D J W Contracts, farming. |
| **5. Designed Environmentally Sensitive Sites** | | | | |
| Areas of Outstanding Natural Beauty. | - | 1 | - | 7m/NE – Suffolk Coast & Heaths. |
| Environmentally Sensitive Areas. | - | - | 1 | 267m/SW – Suffolk River Valleys (decommissioned). |

Where no relevant or significant data records exist for an activity, it is removed from the summary table. All data is included within Appendix 3.

# 4. SITE HISTORY

## 4.1 Historical Maps

A review of the history of the site has been conducted based upon the historical maps included within the Envirocheck report included in Appendix 4.

The relevant changes of the subject site and immediate surrounding area from the mapping are detailed in Table 3 below:

**Table 3 - Historical Summary**

| Date | Potentially Contaminative Land Uses / Significant Changes | |
|---|---|---|
| | **Onsite** | **Offsite** |
| **1881** (1:2,500) **1886-1887** (1:10,560) | • The site was part of two fields separated by a partially wooded field boundary. | • A road was present running along the eastern boundary. To the north was Peartree Farm with associated buildings and fields. "Boot" (Pub) was present approximately 15m to the south. The wider area comprised agricultural fields. |
| **1904** (1:2,500) & (1:10,560) | • No significant changes. | • There was some development at Peartree Farm to the north. |
| **1926** (1:2,500) **1928** (1:10,560) | • No significant changes. | • No significant changes. |
| **1958** (1:10,000) | • Two structures were evident on-site. One at the northern end of the site and one towards the central southern area of the site. | • Two wells are shown approximately 25 and 50m to the southwest at residential properties (Drift Cottages) developed near Boot Pub. |
| **1967-1970** (1:2,500) | • No significant changes. | • Some development at Peartree Farm and around Boot. |
| **1988-1989** (1:2,500) **1990** (1:10,000) | • No significant changes. | • No significant changes. |
| **1994** (1:2,500) | • No significant changes. | • No significant changes. |
| **1999** (Aerial) **1999-2000** (1:10,000) | • No significant changes. | • The land adjacent to the west and around Peartree Farm is shown to comprise pig farms.<br>• Trees adjacent to the north appear to be planted on a grid basis and may represent a small orchard. |
| **2006** (1:10,000) | • No significant changes. | • No significant changes. |
| **2021** (1:10,000) | • No significant changes. | • No significant changes. |

| Table 3 - Historical Summary | | |
|---|---|---|
| **Date** | **Potentially Contaminative Land Uses / Significant Changes** | |
| | **Onsite** | **Offsite** |

***Notes:***

- The dates of the maps do not always correspond with the time of the surveys.
- Where no significant factors or changes occur within a map edition(s) it is summarised with "No significant changes".
- The alignment and extent of the detailed site area in early map editions is often mis-aligned compared to modern mapping due to variation in mapping/digitisation processes; this is compensated for where possible within the interpretation.

## 4.2 Site History Summary

The earliest available historical mapping (1881) shows the site as part of agricultural fields . The wider area was also shown to be agricultural with associated farms and structures.

The site was developed with two structures between 1928 and 1958 and has remained largely unchanged since this time. There was some development of Peartree Farm to the north, including a small orchard immediately north of the site, and of residencies to the south but the wider area has also remained largely unchanged since 1881.

# 5. PRELIMINARY CONCEPTUAL SITE MODEL

The risk assessment methodology is based upon current guidelines and legislation (refs. **R.5**, **R.7** and **R.9**).

The current guidance requires that a conceptual site model (CSM) be formulated, based upon the findings of the research. The CSM aims to identify and assess potential 'hazards'; the potential 'receptors' that may be affected and the anticipated 'pathways' by which the hazard may negatively impact the receptors. Where there is reasonable potential for all three components to be present at a site, then they constitute a potential pollutant linkage (PPL) and have been included in the CSM below. The CSM is limited at this stage to the identification and assessment of potential 'hazards', identified or suspected from the results of the research. The findings are summarised in the following subsections.

The guidance proposes a four-stage approach for the assessment of contamination and the associated risks. The four stages are listed below:

- Hazard Identification;
- Hazard Assessment;
- Risk Estimation; and
- Risk Evaluation.

Should a complete PPL be present which is deemed to pose a potential risk to identified receptors, then further investigation works are likely to be recommended.

## 5.1 Hazard Identification: Onsite

The desk-based research and historical review identified the following potential hazards on the site:

- Historical construction activities;
- Localised areas of burning (bonfires);
- Localised waste oil and oil container storage; and
- Use of the on-site structures (assumed residential).

## 5.2 Hazard Identification: Offsite

The desk-based research and historical review identified the following potential hazards offsite that may impact upon the site:

- Historical construction and demolition activities;
- Off-site landfill to the north; and
- Use of the adjacent farmyard and small orchard.

## 5.3 Risk Assessment

The preliminary risk assessment has identified potential sources of contamination that may pose a risk to human health and the Controlled Waters. Potential pollutant linkages that require further consideration are presented in Table 4 shown overleaf:

## Table 4 – Preliminary Conceptual Site Model

| Sources | PATHWAYS: | | | | | RECEPTORS: | | | | | | Risk Rating | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Root Uptake | Direct Contact | Ingestion | Respiration | Gas Accumulation | Plants | End Users | Structures (Concrete) | Services/Utilities | Construction Workers | Controlled Waters (GW) | | |
| Onsite: Construction activities | U | U | U | U | N | N | Mi | N | N | Mi | N | LR | The site appears to have only undergone one phase of construction. Given the age of the construction it is possible that asbestos and lead-based paints were used. These hazards should be assessed prior to demolition of the existing building(s). |
| Onsite: Localised areas of burning (bonfires). | L | U | L | U | N | Mi | Mi | N | N | Mi | N | LR-MR | Localised burning appears to have been ongoing in the garden area for a prolonged period of time. The ash and impacted soil will require off-site disposal and are unlikely to be chemically suitable for use in a residential garden. |
| Onsite: Localised waste oil and oil container storage. | L | L | U | U | U | Mi | Mi | N | Mi | Mi | N | LR-MR | There is evidence of localised loss of oil to ground. However, this is of a very small volume (<10L) and appears to be restricted to the immediate vicinity of a waste oil bucket. |
| Onsite: Residential use of the structures. | U | U | U | U | N | Mi | Mi | N | N | Mi | N | LR | Contamination from residential use of the property is likely to be limited to localised areas of burning (bonfires). A discovery strategy should be implemented to manage any contamination identified during future earthworks. |
| Offsite: Construction and demolition activities. | N | N | N | U | N | N | N | N | N | N | * | NR | Off-site construction and demolition activities are considered to be of sufficient distance from the site such that any associated contamination is unlikely to have migrated to on-site soils. |
| Offsite: Historical landfill (Redhouse Farm). | N | N | N | N | U | N | Mi | N | N | N | * | LR | The landfill is considered to be a suitable distance from the site to pose a low risk to the proposed development. Further, the granular geology is likely to facilitate vertical venting of |

| | | | | |
|---|---|---|---|---|
| | | | | ground gasses as opposed to lateral migration over a long distance. |
| Off-site: Use of the adjacent farm to the north (including orchard). | N U U N N | N Mi N N N * | LR | The farmyard to the north is considered to be a suitable distance from the site to pose a low risk to the proposed development. The suspected orchard area, whilst adjacent to the site, is small scale and the prolonged application of pesticides on a large scale is considered to be unlikely. |

| **Legend: -** See Comparison of Consequence Against Probability within Appendix 5 for Key to Legend. | **Probability:** | **Consequence (Severity):** | **Risk Rating:** | |
|---|---|---|---|---|
| | | | Very High Risk | **VH** |
| | Negligible (N) | Negligible (N) | High Risk | **HR** |
| | Unlikely (U) | Mild (Mi) | Moderate Risk | **MR** |
| | Likely (L) | Moderate (Mo) | Low Risk | **LR** |
| | Highly Likely (HL) | Severe (S) | Negligible Risk | **NR** |

* The risk posed to controlled water receptors by off-site sources is not required. However, it is acknowledged that controlled waters can act as pathways for contamination to migrate onto the site.

# 6. CONCLUSIONS AND RECOMMENDATIONS

Based upon the findings of the preliminary risk assessment and site walkover, a number of potential contaminant sources and pathways to potential receptors have been identified.

It is recommended that a preliminary intrusive ground investigation is undertaken to determine the extent of any potential contamination within the soil strata.

Any ground investigation should be designed in general accordance with CLR 4, (ref. **R.8**) undertaken in compliance with BS 10175:2011+A2:2017, (ref. **R.9**) and BS 5930:2015+A1:2020, (ref. **R.10**).

It is recommended that this report be submitted to the Local Authority as part of the planning submission for the site.

Whilst outside of the remit of this report, if demolition / refurbishment of the buildings is proposed it may be necessary to (a) fully update the building Asbestos Register, where present or (b) undertake a Refurbishment and Demolition (asbestos survey) of the buildings, in accordance with HSE guidance (ref. **R.11**) and in advance of any disturbance works.

## 6.1 Geotechnical Considerations and recommendations

As development of the site is proposed, it may be financially prudent to undertake a geotechnical investigation of the site at the same time as any environmental investigation to enable foundation recommendations to be proposed.

The potential for Made Ground, cohesive ground conditions and the presence of mature trees or proposed planting should be taken into consideration.

# APPENDICES

# Appendix 1 – Report Limitations and Conditions

**General Limitations and Exceptions**

This report was prepared solely for our Client for the stated purposes only and is not intended to be relied on by any other party or for any other use. No extended duty of care to any third party is implied or offered.

Geosphere Environmental Ltd does not purport to provide specialist legal advice.

The Executive Summary, Conclusions and Recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon until considered in the context of the whole report.

Interpretations and recommendations contained within the report represent our professional opinions, which were arrived at in accordance with currently accepted industry practices at the time of reporting and based upon current legislation in force at that time.

**Environmental and Geotechnical Reporting (including Phase 1, Phase 2 and Site Walkovers) Limitations and Exceptions**

The comments given in this report and the options expressed herein, are based upon the readily available information collated for the report and an assessment based upon the current guidance which for Phase 1 / Phase 2 reports is primarily the Environment Agency's Land Contamination Risk Management (LCRM) report, 2021.

The report has been prepared in relation to the proposed end-use and should another end-use be intended, reassessment may be required.

No warranty is given as to the possibility of future changes in the condition of the site.

The opinions expressed cannot be absolute, due to the limitation of time and resources imposed by the agreed brief.

With regards to any aspect of land contamination referred to, this is limited to those aspects specifically stated and necessarily qualified. No liability shall be accepted for other aspects which may be the result of gradual or sudden pollution incidents, past or present land uses and the potential for associated contamination migration.

Any Desk Study Report / data has been produced largely from the information purchased from The Landmark Information Group. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. The information purchased has been assumed to be correct and free from errors. However, there is the possibility that some data may be missing from the report including (but not limited to) unrecorded land uses both onsite and offsite or unrecorded pollution events. No attempt has been made to verify the information.

The accuracy of any map extracts cannot be guaranteed. It is possible that different conditions existed onsite, between and subsequent to the various map surveys provided.

Any site walkover undertaken is a snapshot of the site recording the visually evident conditions at the time of the walkover in the areas readily accessible. It is possible that after the walkover, the site was altered (for example by fly-tipping or groundworks) or before the walkover, the site conditions changed removing evidence of potentially contaminative features (such as oil tanks removed).

Any intrusive works only cover a tiny proportion of the site. Where exploratory holes are positioned by Geosphere Environmental Limited, they are located to give as good a coverage of the site as possible and to target features / proposed land use where applicable, whilst allowing for areas that cannot be accessed, Client requested locations and other site / time / budget constraints. While assumptions may have been drawn between exploratory holes on the ground conditions and / or extent or otherwise of any contamination, this is for guidance only and no liability can be accepted on its accuracy.

Foundation design is outside of the remit of Geosphere Environmental Limited unless specifically stated and it is recommended that the services of foundation design specialists are sought as required. Any foundation appraisal contained within the report is limited to foundation optioneering.

Any conceptual model is based upon the information available at the time of conducting this assessment and is an interpretive assessment of the conditions at the site. Redevelopment and / or further investigation of the site may reveal additional information and therefore alter the conceptual model and the report conclusions.

Any infiltration testing results are considered to be representative of the ground conditions at the locations tested and at the time of testing. As well as lateral variation in ground conditions, seasonal changes in ground water level may affect the results.

Any post-fieldwork monitoring (including ground gas / groundwater) is a snapshot of the conditions at the time of monitoring.

# Appendix 2 – References

**R.1.** CIRIA SP69, 'The engineering implications of rising groundwater levels in London', 1989.

**R.2.** CIRIA SP92 'Rising groundwater levels in Birmingham and the engineering implications', 1993.

**R.3.** "The Lost Rivers of London: A Study of Their Effects Upon London and Londoners, and the Effects of London and Londoners on Them", N Barton, 1962.

**R.4.** Nitrates Directive (91/676/EEC) 1991.

**R.5.** Land Contamination Risk Management (LCRM), Environment Agency, 2021.

**R.6.** The Environmental Protection Act, Part IIA, Section 78, 1990.

**R.7.** Environment Act 1995, Section 57, DoE 1995.

**R.8.** CLR 4, 'Sampling strategies for contaminated land', DoE 1994.

**R.9.** British Standards Institute: BS 10175:2011+A2:2017 'Code of practice for the investigation of potentially contaminated sites', 2017.

**R.10.** British Standards Institute: BS 5930:2015+A1:2020 'Code of practice for site investigations', 2020.

**R.11.** Reference: Asbestos: The Survey Guide, HSG 264, 2nd Edition, 2012.

# Appendix 3 – Envirocheck Data Search Report

# Envirocheck® Report:

## Datasheet

### Order Details:

**Order Number:**
287242165_1_1

**Customer Reference:**
6020

**National Grid Reference:**
622170, 236340

**Slice:**
A

**Site Area (Ha):**
0.22

**Search Buffer (m):**
1000

### Site Details:

Farmside, Shotley
IPSWICH
IP9 1EY

### Client Details:

Miss H Painter
Geosphere Environmental Ltd
Brightwell Barns
Ipswich Road
Brightwell
Suffolk
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# Contents



**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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**Scottish Natural Heritage Copyright**



**Ove Arup Copyright Notice**



**Stantec Copyright Notice**



**Radon Potential dataset Copyright Notice**



**Natural Resources Wales Copyright Notice**



**Report Version v53.0**

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Agency & Hydrological** | | | | | |
| BGS Groundwater Flooding Susceptibility | pg 1 | Yes | | | n/a |
| Contaminated Land Register Entries and Notices | | | | | |
| Discharge Consents | pg 1 | | | | 4 |
| Prosecutions Relating to Controlled Waters | | | n/a | n/a | n/a |
| Enforcement and Prohibition Notices | | | | | |
| Integrated Pollution Controls | | | | | |
| Integrated Pollution Prevention And Control | | | | | |
| Local Authority Integrated Pollution Prevention And Control | | | | | |
| Local Authority Pollution Prevention and Controls | | | | | |
| Local Authority Pollution Prevention and Control Enforcements | | | | | |
| Nearest Surface Water Feature | pg 1 | | Yes | | |
| Pollution Incidents to Controlled Waters | | | | | |
| Prosecutions Relating to Authorised Processes | pg 2 | | | | 1 |
| Registered Radioactive Substances | | | | | |
| River Quality | | | | | |
| River Quality Biology Sampling Points | | | | | |
| River Quality Chemistry Sampling Points | | | | | |
| Substantiated Pollution Incident Register | | | | | |
| Water Abstractions | pg 2 | | | | 9 (*24) |
| Water Industry Act Referrals | | | | | |
| Groundwater Vulnerability Map | pg 10 | Yes | n/a | n/a | n/a |
| Groundwater Vulnerability - Soluble Rock Risk | | | n/a | n/a | n/a |
| Groundwater Vulnerability - Local Information | | | n/a | n/a | n/a |
| Bedrock Aquifer Designations | pg 10 | Yes | n/a | n/a | n/a |
| Superficial Aquifer Designations | pg 10 | Yes | n/a | n/a | n/a |
| Source Protection Zones | | | | | |
| Extreme Flooding from Rivers or Sea without Defences | | | | n/a | n/a |
| Flooding from Rivers or Sea without Defences | | | | n/a | n/a |
| Areas Benefiting from Flood Defences | | | | n/a | n/a |
| Flood Water Storage Areas | | | | n/a | n/a |
| Flood Defences | | | | n/a | n/a |
| OS Water Network Lines | pg 10 | | | 1 | 8 |

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LANDMARK INFORMATION GROUP

# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Waste** | | | | | |
| BGS Recorded Landfill Sites | pg 12 | | | | 1 |
| Historical Landfill Sites | pg 12 | | | 1 | 1 |
| Integrated Pollution Control Registered Waste Sites | | | | | |
| Licensed Waste Management Facilities (Landfill Boundaries) | | | | | |
| Licensed Waste Management Facilities (Locations) | pg 12 | | | | 1 |
| Local Authority Landfill Coverage | pg 12 | 2 | n/a | n/a | n/a |
| Local Authority Recorded Landfill Sites | pg 12 | | 1 | | 1 |
| Potentially Infilled Land (Non-Water) | | | | | |
| Potentially Infilled Land (Water) | | | | | |
| Registered Landfill Sites | | | | | |
| Registered Waste Transfer Sites | pg 13 | | | | 2 |
| Registered Waste Treatment or Disposal Sites | | | | | |
| **Hazardous Substances** | | | | | |
| Control of Major Accident Hazards Sites (COMAH) | | | | | |
| Explosive Sites | | | | | |
| Notification of Installations Handling Hazardous Substances (NIHHS) | | | | | |
| Planning Hazardous Substance Consents | | | | | |
| Planning Hazardous Substance Enforcements | | | | | |

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# 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 14 | Yes | n/a | n/a | n/a |
| BGS Estimated Soil Chemistry | pg 14 | Yes | | | Yes |
| BGS Recorded Mineral Sites | pg 16 | | | | 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 | | | | n/a | n/a |
| Potential for Collapsible Ground Stability Hazards | pg 16 | Yes | | n/a | n/a |
| Potential for Compressible Ground Stability Hazards | | | | n/a | n/a |
| Potential for Ground Dissolution Stability Hazards | | | | n/a | n/a |
| Potential for Landslide Ground Stability Hazards | pg 16 | Yes | | n/a | n/a |
| Potential for Running Sand Ground Stability Hazards | pg 17 | | Yes | n/a | n/a |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | | | | n/a | n/a |
| Radon Potential - Radon Affected Areas | | | n/a | n/a | n/a |
| Radon Potential - Radon Protection Measures | | | n/a | n/a | n/a |
| **Industrial Land Use** | | | | | |
| Contemporary Trade Directory Entries | | | | | |
| Fuel Station Entries | | | | | |
| Points of Interest - Commercial Services | | | | | |
| Points of Interest - Education and Health | | | | | |
| Points of Interest - Manufacturing and Production | pg 18 | | | 1 | 2 |
| Points of Interest - Public Infrastructure | pg 18 | | | | 3 |
| Points of Interest - Recreational and Environmental | | | | | |
| Gas Pipelines | | | | | |
| Underground Electrical Cables | | | | | |

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Sensitive Land Use** | | | | | |
| Ancient Woodland | pg 19 | | | | 2 |
| Areas of Adopted Green Belt | | | | | |
| Areas of Unadopted Green Belt | | | | | |
| Areas of Outstanding Natural Beauty | pg 19 | | 1 | | |
| Environmentally Sensitive Areas | pg 19 | | | 1 | |
| Forest Parks | | | | | |
| Local Nature Reserves | | | | | |
| Marine Nature Reserves | | | | | |
| National Nature Reserves | | | | | |
| National Parks | | | | | |
| Nitrate Sensitive Areas | | | | | |
| Nitrate Vulnerable Zones | pg 19 | 1 | | | |
| Ramsar Sites | | | | | |
| Sites of Special Scientific Interest | | | | | |
| Special Areas of Conservation | | | | | |
| Special Protection Areas | | | | | |
| World Heritage Sites | | | | | |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Groundwater Flooding Susceptibility**<br>Flooding Type: Limited Potential for Groundwater Flooding to Occur | A13NE (SW) | 0 | 1 | 622173 236336 |
| 1 | **Discharge Consents**<br>Operator: Winchester Homes Ltd<br>Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)<br>Location: Unit 1 Shotley Hall Shotley Hall Farm Barns, Shotley Walk, Shotley, Suffolk, Ip9 1dn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Deben Estuary / Orwell Estuary<br>Reference: Prenf16554<br>Permit Version: 1<br>Effective Date: 14th October 2004<br>Issued Date: 14th October 2004<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Ditch Trib River Orwell<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A14SE (E) | 951 | 2 | 623130 236110 |
| 1 | **Discharge Consents**<br>Operator: Winchester Homes Ltd<br>Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)<br>Location: Unit 2 Shotley Hall Farm Barns Shotley Walk, Shotley, Suffolk, Ip9 1dn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Deben Estuary / Orwell Estuary<br>Reference: Prenf16555<br>Permit Version: 1<br>Effective Date: 14th October 2004<br>Issued Date: 14th October 2004<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Ditch Trib River Orwell<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A14SE (E) | 951 | 2 | 623130 236110 |
| 1 | **Discharge Consents**<br>Operator: Winchester Homes Ltd<br>Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)<br>Location: Unit 3 Shotley Hall Farm Barns Shotley Walk, Shotley, Suffolk, Ip9 1dn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Deben Estuary / Orwell Estuary<br>Reference: Prenf16559<br>Permit Version: 1<br>Effective Date: 14th October 2004<br>Issued Date: 14th October 2004<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Ditch Trib River Orwell<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A14SE (E) | 951 | 2 | 623130 236110 |
| 1 | **Discharge Consents**<br>Operator: Winchester Homes Ltd<br>Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)<br>Location: Unit 4 Shotley Hall Farm Barns Shotley Walk, Shotley, Suffolk, Ip9 1dn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Deben Estuary / Orwell Estuary<br>Reference: Prenf16560<br>Permit Version: 1<br>Effective Date: 14th October 2004<br>Issued Date: 14th October 2004<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Ditch Trib River Orwell<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A14SE (E) | 951 | 2 | 623130 236110 |
| | **Nearest Surface Water Feature** | A13NW (N) | 80 | - | 622133 236444 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 2 | **Prosecutions Relating to Authorised Processes**<br>Location: Wades Lane, SHOTLEY, Suffolk, IP9 1E<br>Prosecution Text: EA Data 09/06/1999, Keeping controlled waste (soil, brick rubble, concrete, scrap metal, tyres etc) on land at Wades Lane without a Waste Management Licence between 11th and 20th May 1998. Given an 80 hour community service order.<br>Prosecution Act: EPA90 s33(1b)<br>Hearing Date: 7th June 1999<br>Verdict: Guilty<br>Fine: 0<br>Costs: 500<br>Positional Accuracy: Manually positioned to the road within the address or location | A19SW (NE) | 514 | 2 | 622513 236761 |
| 3 | **Water Abstractions**<br>Operator: D J Wrinch & Son<br>Licence Number: 7/35/10/*S/0103<br>Permit Version: 100<br>Location: Imp Res On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st December 1977<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 796 | 2 | 622490 237105 |
| 3 | **Water Abstractions**<br>Operator: R J & H W Wrinch<br>Licence Number: 7/35/10/*S/0155<br>Permit Version: 2<br>Location: Impounded Reservoir On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Chelmondiston And Shotley, Suffolk<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 19th May 2020<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |
| 3 | **Water Abstractions**<br>Operator: Steeple Wick Farming Company<br>Licence Number: 7/35/10/*S/0103<br>Permit Version: 104<br>Location: Impounded Reservoir On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 5th January 2016<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |
| 3 | **Water Abstractions**<br>Operator: D J W Contracts<br>Licence Number: 7/35/10/*S/0103<br>Permit Version: 103<br>Location: Impounded Reservoir On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 3 | **Water Abstractions**<br>Operator: D J W Contracts<br>Licence Number: 7/35/10/*S/0103<br>Permit Version: 102<br>Location: Impounded Reservoir On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 13th June 2003<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |
| 3 | **Water Abstractions**<br>Operator: D J W Contracts<br>Licence Number: 7/35/10/*S/0103<br>Permit Version: 101<br>Location: Imp Res On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st October 2002<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |
| 3 | **Water Abstractions**<br>Operator: R & H Wrinch<br>Licence Number: 7/35/10/*S/0155<br>Permit Version: 1<br>Location: Impounded Reservoir On Colton Creek<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Chelmondiston And Shotley, Suffolk<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st October 2002<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N) | 801 | 2 | 622490 237110 |
| 3 | **Water Abstractions**<br>Operator: D J Wrinch & Son<br>Licence Number: 7/35/10/**/103<br>Permit Version: Not Supplied<br>Location: Impounding Resevoir On, Colton Creek, SHOTLEY<br>Authority: Environment Agency, Anglian Region<br>Abstraction: Impounding<br>Abstraction Type: Not Supplied<br>Source: Stream<br>Daily Rate (m3): 41<br>Yearly Rate (m3): 540000<br>Details: Status: Perpetuity<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18NE (N) | 801 | 2 | 622490 237110 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 4 | **Water Abstractions**<br>Operator: D J Wrinch & Son<br>Licence Number: 7/35/10/*G/0006<br>Permit Version: 100<br>Location: Well At Shotley Hall,Shotley<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A14SE (E) | 913 | 2 | 623110 236230 |
| | **Water Abstractions**<br>Operator: R F Cordle & Sons<br>Licence Number: 7/35/10/**/100<br>Permit Version: Not Supplied<br>Location: Tributary River Orwell, CHELMONDISTON<br>Authority: Environment Agency, Anglian Region<br>Abstraction: Impounding<br>Abstraction Type: Not Supplied<br>Source: Stream<br>Daily Rate (m3): 40<br>Yearly Rate (m3): 600000<br>Details: Status: Perpetuity<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A22SE (N) | 1311 | 2 | 621750 237615 |
| | **Water Abstractions**<br>Operator: R F Cordle And Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 104<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 25th February 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1316 | 2 | 621750 237620 |
| | **Water Abstractions**<br>Operator: R F Cordle & Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 103<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 8th June 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1316 | 2 | 621750 237620 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: R F Cordle & Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 102<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 2007<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1316 | 2 | 621750 237620 |
| | **Water Abstractions**<br>Operator: R F Cordle & Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 101<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1316 | 2 | 621750 237620 |
| | **Water Abstractions**<br>Operator: R F Cordle & Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 100<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st February 1997<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1316 | 2 | 621750 237620 |
| | **Water Abstractions**<br>Operator: R F Cordle And Sons<br>Licence Number: 7/35/10/*S/0100<br>Permit Version: 105<br>Location: Trib R.Orwell, Chelmondiston<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 October<br>Permit Start Date: 22nd October 2018<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A22SE (N) | 1318 | 2 | 621752 237623 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: E H Wrinch & Son<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 101<br>Location: Bore 2 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 23rd July 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (W) | 1421 | 2 | 620820 236880 |
| | **Water Abstractions**<br>Operator: K J Cordle & Sons<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 100<br>Location: Bore 2 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (W) | 1421 | 2 | 620820 236880 |
| | **Water Abstractions**<br>Operator: K J Cordle & Sons<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 100<br>Location: Bore 1 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NW) | 1455 | 2 | 620820 236965 |
| | **Water Abstractions**<br>Operator: E H Wrinch & Son<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 101<br>Location: Bore 1 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 23rd July 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (NW) | 1457 | 2 | 620820 236970 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: R J & H W Wrinch<br>Licence Number: An/035/0010/006/R01<br>Permit Version: 3<br>Location: Trib Of River Orwell At Shotley Suffolk<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wades Lane, Shotley, Suffolk<br>Authorised Start: 01 November<br>Authorised End: 30 April<br>Permit Start Date: 19th May 2020<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A20NW (NE) | 1466 | 2 | 623468 237063 |
| | **Water Abstractions**<br>Operator: R & H Wrinch<br>Licence Number: An/035/0010/006/R01<br>Permit Version: 2<br>Location: Trib Of River Orwell At Shotley Suffolk<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wades Lane, Shotley, Suffolk<br>Authorised Start: 01 November<br>Authorised End: 30 April<br>Permit Start Date: 1st April 2020<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A20NW (NE) | 1466 | 2 | 623468 237063 |
| | **Water Abstractions**<br>Operator: E H Wrinch & Son<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 101<br>Location: Bore 4 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 23rd July 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (W) | 1492 | 2 | 620720 236810 |
| | **Water Abstractions**<br>Operator: K J Cordle & Sons<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 100<br>Location: Bore 4 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16SW (W) | 1492 | 2 | 620720 236810 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: Geoffrey Mayhew Farms Ltd<br>Licence Number: 8/36/19/*S/0060<br>Permit Version: 102<br>Location: Erwarton Hall Farm, Shotley<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Ewarton Hall Farm Erwarton Suffolk<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 21st May 2012<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A3SE (S) | 1513 | 2 | 622400 234800 |
| | **Water Abstractions**<br>Operator: A W Mayhew (Farms) Ltd<br>Licence Number: 8/36/19/*S/0060<br>Permit Version: 101<br>Location: Erwarton Hall Farm, Shotley<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Ewarton Hall Farm Erwarton Suffolk<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 30th September 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A3SE (S) | 1513 | 2 | 622400 234800 |
| | **Water Abstractions**<br>Operator: J R H Veenbaas & Co<br>Licence Number: 8/36/19/*S/0060<br>Permit Version: 100<br>Location: Erwarton Hall Farm, Shotley<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st November 1979<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A3SE (S) | 1513 | 2 | 622400 234800 |
| | **Water Abstractions**<br>Operator: G & G Stennett<br>Licence Number: 8/36/19/*G/0079<br>Permit Version: 100<br>Location: Rence Park Farm, Harkstead<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Glacial Sand and Gravel; Status: Perpetuity<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st March 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A6SW (SW) | 1539 | 2 | 620800 235600 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: R & H Wrinch<br>Licence Number: An/035/0010/006<br>Permit Version: 2<br>Location: Trib Of River Orwell At Shotley Suffolk<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wades Lane, Shotley, Suffolk<br>Authorised Start: 01 November<br>Authorised End: 30 April<br>Permit Start Date: 1st April 2012<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A20NE (NE) | 1578 | 2 | 623540 237165 |
| | **Water Abstractions**<br>Operator: R & H Wrinch<br>Licence Number: An/035/0010/006<br>Permit Version: 1<br>Location: Trib Of River Orwell At Shotley Suffolk<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wades Lane, Shotley, Suffolk<br>Authorised Start: 01 November<br>Authorised End: 31 March<br>Permit Start Date: 17th January 2011<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A20NE (NE) | 1578 | 2 | 623540 237165 |
| | **Water Abstractions**<br>Operator: E H Wrinch & Son<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 101<br>Location: Bore 3 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 23rd July 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16NW (NW) | 1734 | 2 | 620580 237110 |
| | **Water Abstractions**<br>Operator: K J Cordle & Sons<br>Licence Number: 7/35/10/*G/0120<br>Permit Version: 100<br>Location: Bore 3 At Whitehouse Farm<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 1st April 1998<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A16NW (NW) | 1734 | 2 | 620580 237110 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Water Abstractions**<br>Operator: E R Spalding<br>Licence Number: 7/35/10/*G/0017<br>Permit Version: 100<br>Location: Well At Church Fm,Chelmondis'N<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Crag; Status: Perpetuity<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st February 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A21SW (NW) | 1940 | 2 | 620620 237560 |
| | **Groundwater Vulnerability Map**<br>Combined Classification: Secondary Superficial Aquifer - High Vulnerability<br>Combined Vulnerability: High<br>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer<br>Pollutant Speed: Intermediate<br>Bedrock Flow: Mixed<br>Dilution: <300 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: >90%<br>Superficial Thickness: 3-10m<br>Superficial Recharge: High | A13NE (SW) | 0 | 3 | 622173 236336 |
| | **Groundwater Vulnerability - Soluble Rock Risk**<br>None | | | | |
| | **Bedrock Aquifer Designations**<br>Aquifer Designation: Principal Aquifer | A13NE (SW) | 0 | 3 | 622173 236336 |
| | **Superficial Aquifer Designations**<br>Aquifer Designation: Secondary Aquifer - A | A13NE (SW) | 0 | 3 | 622173 236336 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>None | | | | |
| | **Flooding from Rivers or Sea without Defences**<br>None | | | | |
| | **Areas Benefiting from Flood Defences**<br>None | | | | |
| | **Flood Water Storage Areas**<br>None | | | | |
| | **Flood Defences**<br>None | | | | |
| 5 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1022.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A14NW (E) | 355 | 4 | 622546 236386 |
| 6 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 111.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18SE (N) | 553 | 4 | 622204 236927 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 7 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 85.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18SE (N) | 596 | 4 | 622309 236955 |
| 8 | **OS Water Network Lines**<br>Watercourse Form: Lake<br>Watercourse Length: 175.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18SE (N) | 656 | 4 | 622385 236995 |
| 9 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 17.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18NE (NE) | 812 | 4 | 622500 237118 |
| 10 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18NE (N) | 829 | 4 | 622501 237136 |
| 11 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 250.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18NE (N) | 837 | 4 | 622477 237155 |
| 12 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 81.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A18NE (N) | 843 | 4 | 622507 237148 |
| 13 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 120.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Stour Anglian<br>Primacy: 1 | A19NW (N) | 921 | 4 | 622518 237229 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 14 | **BGS Recorded Landfill Sites**<br>Site Name: Main Rd<br>Location: Chelmondiston, NR IPSWICH, Suffolk<br>Authority: British Geological Survey, National Geoscience Information Service<br>Ground Water: No threat to ground water<br>Surface Water: No threat to surface water<br>Geology: N/A<br>Positional Accuracy: Positioned by the supplier<br>Boundary Accuracy: Good | A17SE (NW) | 559 | - | 621790 236790 |
| 15 | **Historical Landfill Sites**<br>Licence Holder: Not Supplied<br>Location: Red House Farm, Chelmondiston<br>Name: Red House Farm<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD03367<br>First Input Date: Not Supplied<br>Last Input Date: Not Supplied<br>Specified Waste Type: Deposited Waste included Commercial and Household Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 3500/0038<br>BGS Ref: Not Supplied<br>Other Ref: OFSB2 | A13NW (N) | 257 | 2 | 622160 236630 |
| 16 | **Historical Landfill Sites**<br>Licence Holder: Not Supplied<br>Location: Chelmondiston, Near Ipswich, Suffolk<br>Name: Main Road<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD31169<br>First Input Date: 31st December 1947<br>Last Input Date: Not Supplied<br>Specified Waste Type: Deposited Waste included Commercial Waste<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: Not Supplied<br>BGS Ref: 964<br>Other Ref: Not Supplied | A17SE (NW) | 557 | 2 | 621793 236790 |
| 17 | **Licensed Waste Management Facilities (Locations)**<br>Licence Number: 70761<br>Location: Penninsula Community Recycling Centre, Shotley Road C, Chelmondistion, Ipswich, Suffolk, IP9 1EF<br>Operator Name: Shotley Holdings Ltd<br>Operator Location: Not Supplied<br>Authority: Environment Agency - Anglian Region, Eastern Area<br>Site Category: Household Waste Amenity Sites<br>**Licence Status: Surrendered**<br>Issued: 25th May 1994<br>Last Modified: Not Supplied<br>Expires: Not Supplied<br>Suspended: Not Supplied<br>Revoked: Not Supplied<br>Surrendered: 5th September 2012<br>IPPC Reference: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A17SE (NW) | 713 | 2 | 621690 236907 |
| | **Local Authority Landfill Coverage**<br>Name: Babergh District Council - Has supplied landfill data | | 0 | 6 | 622173 236336 |
| | **Local Authority Landfill Coverage**<br>Name: Suffolk County Council - Has supplied landfill data | | 0 | 5 | 622173 236336 |
| 18 | **Local Authority Recorded Landfill Sites**<br>Location: Red House Farm, Chelmondiston<br>Reference: BAB2<br>Authority: Babergh District Council, Environmental Services<br>**Last Reported Status: Closed**<br>Types of Waste: Not Supplied<br>Date of Closure: 31/12/1974<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Applicable | A13NW (N) | 238 | 6 | 622100 236601 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 19 | **Local Authority Recorded Landfill Sites**<br>Location: Main Road, Chelmondiston, Near Ipswich<br>Reference: Not Supplied<br>Authority: Suffolk County Council<br>**Last Reported Status: Closed**<br>Types of Waste: Domestic, Trade<br>Date of Closure: Not Supplied<br>Positional Accuracy: Positioned by the supplier<br>Boundary Quality: Moderate | A17SE (NW) | 559 | 5 | 621789 236789 |
| 20 | **Registered Waste Transfer Sites**<br>Licence Holder: Suffolk Waste Disposal Co Ltd<br>Licence Reference: SFK/TS/016/01<br>Site Location: Shotley Road, Chelmondiston, Ipswich, Suffolk<br>Operator Location: 2 The Square, Martlesham Heath, IPSWICH, Suffolk, IP5 7SL<br>Authority: Environment Agency - Anglian Region, Eastern Area<br>Site Category: Civic Amenity<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Operational as far as is knownOperational<br>Dated: 25th May 1994<br>Preceded By Licence: 8<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste: Household Waste As S75 Epa '90<br>Max.Waste Permitted By Licence<br>Prohibited Waste: All Forms Of Asbestos<br>Batteries<br>Clinical Wastes<br>Gas Cylinders<br>Mineral Oils<br>Percussive/Explosive Waste<br>Sub'S Control. Radioactive Subs Act'60<br>Waste N.O.S. | A17SE (NW) | 715 | 2 | 621690 236910 |
| 20 | **Registered Waste Transfer Sites**<br>Licence Holder: Suffolk C.C.<br>Licence Reference: 8<br>Site Location: Chelmondiston Household Waste Site, Chelmondiston, Ipswich, Suffolk<br>Operator Location: St Edmund House, Rope Walk, IPSWICH, Suffolk, IP4 1NZ<br>Authority: Environment Agency - Anglian Region, Eastern Area<br>Site Category: Civic Amenity<br>Max Input Rate: Undefined<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Record supersededSuperseded<br>Dated: 1st January 1981<br>Preceded By Licence: Not Given<br>Superseded By Licence: SFK/TS/016/01<br>Positional Accuracy: Manually positioned to the road within the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste: Civic Amenity/Refuse Amenity Waste | A17SE (NW) | 715 | 2 | 621690 236910 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS 1:625,000 Solid Geology**<br>Description: Neogene To Quaternary Rocks (Undifferentiated) | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 40 - 60 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: <15 mg/kg | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 40 - 60 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: <15 mg/kg | A18SE (N) | 626 | 1 | 622173 237000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 20 - 40 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: <15 mg/kg | A18SW (N) | 642 | 1 | 622033 237000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 20 - 40 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: <15 mg/kg | A18SE (N) | 644 | 1 | 622328 237000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 20 - 40 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: <15 mg/kg | A18SW (N) | 650 | 1 | 622000 237000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 40 - 60 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: <15 mg/kg | A18SE (NE) | 683 | 1 | 622448 237000 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 20 - 40 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: <15 mg/kg | A18NE (NE) | 730 | 1 | 622500 237027 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: 30 - 45 mg/kg | A18NE (N) | 812 | 1 | 622408 237152 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 20 - 40 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: <15 mg/kg | A19SW (NE) | 845 | 1 | 622742 237000 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 40 - 60 mg/kg<br>Lead Concentration: 100 - 200 mg/kg<br>Nickel Concentration: <15 mg/kg | A18NE (N) | 850 | 1 | 622184 237224 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 90 - 120 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 30 - 45 mg/kg | A18NE (N) | 898 | 1 | 622500 237211 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 40 - 60 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: <15 mg/kg | A18NW (N) | 971 | 1 | 622000 237329 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 21 | **BGS Recorded Mineral Sites**<br>Site Name: Wash Lane Pit<br>Location: Shotley Common, Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 233559<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Eocene<br>Geology: Thames Group<br>Commodity: Coprolite<br>Positional Accuracy: Located by supplier to within 10m | A18SE (N) | 591 | 1 | 622192 236965 |
| 21 | **BGS Recorded Mineral Sites**<br>Site Name: Wash Lane Pit<br>Location: Shotley Common, Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 233559<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Tertiary - Quaternary<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A18SE (N) | 591 | 1 | 622192 236965 |
| 22 | **BGS Recorded Mineral Sites**<br>Site Name: Redhouse Farm Sand Pit<br>Location: Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 213525<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Neogene<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A19SW (NE) | 804 | 1 | 622686 236994 |
| 23 | **BGS Recorded Mineral Sites**<br>Site Name: Styngham Cottages Pit<br>Location: Shotley, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 213705<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Neogene<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A9SW (SE) | 932 | 1 | 622786 235581 |
| | **BGS Measured Urban Soil Chemistry**<br>No data available | | | | |
| | **BGS Urban Soil Chemistry Averages**<br>No data available | | | | |
| | **Coal Mining Affected Areas**<br>In an area that might not be affected by coal mining | | | | |
| | **Non Coal Mining Areas of Great Britain**<br>No Hazard | | | | |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 128 | 1 | 622328 236302 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Radon Potential - Radon Affected Areas**<br>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).<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 24 | **Points of Interest - Manufacturing and Production**<br>Name: D J W Contracts<br>Location: Red House Farm, Wades Lane, Shotley, Ipswich, IP9 1EQ<br>Category: Farming<br>Class Code: Arable Farming<br>Positional Accuracy: Positioned to address or location | A18SE (NE) | 476 | 7 | 622404 236791 |
| 25 | **Points of Interest - Manufacturing and Production**<br>Name: Wind Turbine<br>Location: IP9<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to an adjacent address or location | A17SE (NW) | 694 | 7 | 621722 236908 |
| 26 | **Points of Interest - Manufacturing and Production**<br>Name: Workings (Dis)<br>Location: IP9<br>Category: Extractive Industries<br>Class Code: Unspecified Quarries Or Mines<br>Positional Accuracy: Positioned to an adjacent address or location | A9SW (SE) | 932 | 7 | 622784 235580 |
| 27 | **Points of Interest - Public Infrastructure**<br>Name: Refuse Tip (Public)<br>Location: IP9<br>Category: Infrastructure and Facilities<br>Class Code: Refuse Disposal Facilities<br>Positional Accuracy: Positioned to an adjacent address or location | A17SE (NW) | 692 | 7 | 621730 236912 |
| 28 | **Points of Interest - Public Infrastructure**<br>Name: Sluice<br>Location: IP9<br>Category: Water<br>Class Code: Weirs, Sluices and Dams<br>Positional Accuracy: Positioned to an adjacent address or location | A18NE (N) | 806 | 7 | 622488 237117 |
| 28 | **Points of Interest - Public Infrastructure**<br>Name: Sluice<br>Location: IP9<br>Category: Water<br>Class Code: Weirs, Sluices and Dams<br>Positional Accuracy: Positioned to an adjacent address or location | A18NE (N) | 808 | 7 | 622495 237116 |

# Sensitive Land Use

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 29 | **Ancient Woodland**<br>Name: New Grove<br>Reference: 1117241<br>Area(m²): 17420.48<br>Type: Ancient and Semi-Natural Woodland | A7NE (SW) | 779 | 8 | 621586 235800 |
| 30 | **Ancient Woodland**<br>Name: New Grove<br>Reference: 1117241<br>Area(m²): 19747.64<br>Type: Plantation on Ancient Woodland | A7NE (SW) | 801 | 8 | 621523 235844 |
| 31 | **Areas of Outstanding Natural Beauty**<br>Name: Suffolk Coast & Heaths<br>Multiple Areas: Y<br>Total Area (m2): 443497188.58543116<br>Designation Date: 30th March 1970<br>Source: Natural England | A13NE (NE) | 7 | 8 | 622193 236345 |
| 32 | **Environmentally Sensitive Areas**<br>Name: Suffolk River Valleys (decommissioned)<br>Multiple Areas: Y<br>Total Area (m2): 5882752.35<br>Source: Natural England | A13NW (N) | 267 | 8 | 622101 236631 |
| 33 | **Nitrate Vulnerable Zones**<br>Name: Sandlings And Chelmsford<br>Description: Groundwater<br>Source: Environment Agency, Head Office | A13NE (SW) | 0 | 3 | 622173 236336 |

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Contaminated Land Register Entries and Notices** | | |
| Babergh District Council - Environmental Services | January 2020 | Annual Rolling Update |
| Environment Agency - Head Office | June 2020 | Annually |
| Tendring District Council - Environmental Services | March 2014 | Annual Rolling Update |
| East Suffolk Council | March 2015 | Annual Rolling Update |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | October 2017 | Annual Rolling Update |
| Ipswich Borough Council - Environmental Health Department | September 2017 | Annual Rolling Update |
| **Discharge Consents** | | |
| Environment Agency - Anglian Region | July 2021 | Quarterly |
| **Enforcement and Prohibition Notices** | | |
| Environment Agency - Anglian Region | March 2013 | |
| **Integrated Pollution Controls** | | |
| Environment Agency - Anglian Region | January 2009 | |
| **Integrated Pollution Prevention And Control** | | |
| Environment Agency - Anglian Region | July 2021 | Quarterly |
| **Local Authority Integrated Pollution Prevention And Control** | | |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | April 2014 | Variable |
| Tendring District Council - Environmental Services | December 2015 | Variable |
| Babergh District Council - Environmental Services | June 2014 | Variable |
| East Suffolk Council | May 2014 | Variable |
| Ipswich Borough Council - Environmental Health Department | October 2014 | Variable |
| **Local Authority Pollution Prevention and Controls** | | |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | April 2014 | Annual Rolling Update |
| Tendring District Council - Environmental Services | December 2015 | Annual Rolling Update |
| Babergh District Council - Environmental Services | June 2014 | Not Applicable |
| East Suffolk Council | May 2014 | Annual Rolling Update |
| Ipswich Borough Council - Environmental Health Department | October 2014 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Control Enforcements** | | |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | April 2014 | Variable |
| Tendring District Council - Environmental Services | December 2015 | Variable |
| Babergh District Council - Environmental Services | June 2014 | Variable |
| East Suffolk Council | May 2014 | Variable |
| Ipswich Borough Council - Environmental Health Department | October 2014 | Variable |
| **Nearest Surface Water Feature** | | |
| Ordnance Survey | August 2021 | |
| **Pollution Incidents to Controlled Waters** | | |
| Environment Agency - Anglian Region | September 1999 | |
| **Prosecutions Relating to Authorised Processes** | | |
| Environment Agency - Anglian Region | July 2015 | |
| **Prosecutions Relating to Controlled Waters** | | |
| Environment Agency - Anglian Region | March 2013 | |
| **Registered Radioactive Substances** | | |
| Environment Agency - Anglian Region | June 2016 | Annually |
| **River Quality** | | |
| Environment Agency - Head Office | November 2001 | Not Applicable |
| **River Quality Biology Sampling Points** | | |
| Environment Agency - Head Office | April 2012 | Annually |
| **River Quality Chemistry Sampling Points** | | |
| Environment Agency - Head Office | April 2012 | Annually |

# Data Currency

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Substantiated Pollution Incident Register**<br>Environment Agency - Anglian Region - Eastern Area | July 2021 | Quarterly |
| **Water Abstractions**<br>Environment Agency - Anglian Region | July 2021 | Quarterly |
| **Water Industry Act Referrals**<br>Environment Agency - Anglian Region | October 2017 | Quarterly |
| **Groundwater Vulnerability Map**<br>Environment Agency - Head Office | June 2018 | As notified |
| **Bedrock Aquifer Designations**<br>Environment Agency - Head Office | January 2018 | Annually |
| **Superficial Aquifer Designations**<br>Environment Agency - Head Office | January 2018 | Annually |
| **Source Protection Zones**<br>Environment Agency - Head Office | May 2021 | Bi-Annually |
| **Extreme Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | September 2021 | Quarterly |
| **Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | September 2021 | Quarterly |
| **Areas Benefiting from Flood Defences**<br>Environment Agency - Head Office | September 2021 | Quarterly |
| **Flood Water Storage Areas**<br>Environment Agency - Head Office | September 2021 | Quarterly |
| **Flood Defences**<br>Environment Agency - Head Office | September 2021 | Quarterly |
| **OS Water Network Lines**<br>Ordnance Survey | July 2021 | Quarterly |
| **Surface Water 1 in 30 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water 1 in 100 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water 1 in 1000 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water Suitability**<br>Environment Agency - Head Office | February 2016 | Annually |
| **BGS Groundwater Flooding Susceptibility**<br>British Geological Survey - National Geoscience Information Service | May 2013 | Annually |

| Waste | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Landfill Sites** | | |
| British Geological Survey - National Geoscience Information Service | November 2002 | Not Applicable |
| **Historical Landfill Sites** | | |
| Environment Agency - Head Office | May 2021 | Quarterly |
| **Integrated Pollution Control Registered Waste Sites** | | |
| Environment Agency - Anglian Region | January 2009 | Not Applicable |
| **Licensed Waste Management Facilities (Landfill Boundaries)** | | |
| Environment Agency - Anglian Region - Eastern Area | July 2021 | Quarterly |
| **Licensed Waste Management Facilities (Locations)** | | |
| Environment Agency - Anglian Region - Eastern Area | July 2021 | Quarterly |
| **Local Authority Landfill Coverage** | | |
| Babergh District Council - Environmental Services | February 2003 | Not Applicable |
| East Suffolk Council | February 2003 | Not Applicable |
| Essex County Council | February 2003 | Not Applicable |
| Ipswich Borough Council - Environmental Health Department | February 2003 | Not Applicable |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | February 2003 | Not Applicable |
| Suffolk County Council | February 2003 | Not Applicable |
| Tendring District Council | February 2003 | Not Applicable |
| **Local Authority Recorded Landfill Sites** | | |
| Babergh District Council - Environmental Services | October 2018 | |
| East Suffolk Council | October 2018 | |
| Essex County Council | October 2018 | |
| Ipswich Borough Council - Environmental Health Department | October 2018 | |
| Suffolk Coastal District Council (now part of East Suffolk Council) - Environmental Health Department | October 2018 | |
| Suffolk County Council | October 2018 | |
| Tendring District Council | October 2018 | |
| **Potentially Infilled Land (Non-Water)** | | |
| Landmark Information Group Limited | December 1999 | Not Applicable |
| **Potentially Infilled Land (Water)** | | |
| Landmark Information Group Limited | December 1999 | |
| **Registered Landfill Sites** | | |
| Environment Agency - Anglian Region - Eastern Area | March 2006 | Not Applicable |
| **Registered Waste Transfer Sites** | | |
| Environment Agency - Anglian Region - Eastern Area | April 2018 | |
| **Registered Waste Treatment or Disposal Sites** | | |
| Environment Agency - Anglian Region - Eastern Area | June 2015 | |

| Hazardous Substances | Version | Update Cycle |
|---|---|---|
| **Control of Major Accident Hazards Sites (COMAH)** | | |
| Health and Safety Executive | April 2018 | Bi-Annually |
| **Explosive Sites** | | |
| Health and Safety Executive | March 2017 | Annually |
| **Notification of Installations Handling Hazardous Substances (NIHHS)** | | |
| Health and Safety Executive | August 2001 | |
| **Planning Hazardous Substance Enforcements** | | |
| Suffolk County Council - Environment and Transport | February 2006 | Annual Rolling Update |
| Babergh District Council - Planning Department | February 2016 | Variable |
| East Suffolk Council | February 2016 | Variable |
| Essex County Council | February 2016 | Variable |
| Ipswich Borough Council | February 2016 | Variable |
| Suffolk Coastal District Council (now part of East Suffolk Council) | February 2016 | Variable |
| Tendring District Council | January 2016 | Variable |
| **Planning Hazardous Substance Consents** | | |
| Suffolk County Council - Environment and Transport | February 2006 | Annual Rolling Update |
| Babergh District Council - Planning Department | February 2016 | Variable |
| East Suffolk Council | February 2016 | Variable |
| Essex County Council | February 2016 | Variable |
| Ipswich Borough Council | February 2016 | Variable |
| Suffolk Coastal District Council (now part of East Suffolk Council) | February 2016 | Variable |
| Tendring District Council | January 2016 | Variable |

| Geological | Version | Update Cycle |
|---|---|---|
| **BGS 1:625,000 Solid Geology**<br>British Geological Survey - National Geoscience Information Service | January 2009 | Not Applicable |
| **BGS Estimated Soil Chemistry**<br>British Geological Survey - National Geoscience Information Service | December 2015 | Annually |
| **BGS Recorded Mineral Sites**<br>British Geological Survey - National Geoscience Information Service | May 2021 | Bi-Annually |
| **CBSCB Compensation District**<br>Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011 | As notified |
| **Coal Mining Affected Areas**<br>The Coal Authority - Property Searches | March 2014 | Annual Rolling Update |
| **Mining Instability**<br>Ove Arup & Partners | June 1998 | Not Applicable |
| **Non Coal Mining Areas of Great Britain**<br>British Geological Survey - National Geoscience Information Service | May 2015 | Not Applicable |
| **Potential for Collapsible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | April 2020 | Annually |
| **Potential for Compressible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Ground Dissolution Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Landslide Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Running Sand Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Radon Potential - Radon Affected Areas**<br>British Geological Survey - National Geoscience Information Service | July 2011 | Annually |
| **Radon Potential - Radon Protection Measures**<br>British Geological Survey - National Geoscience Information Service | July 2011 | Annually |
| **Industrial Land Use** | **Version** | **Update Cycle** |
| **Contemporary Trade Directory Entries**<br>Thomson Directories | July 2021 | Quarterly |
| **Fuel Station Entries**<br>Catalist Ltd - Experian | August 2021 | Quarterly |
| **Gas Pipelines**<br>National Grid | October 2021 | Annually |
| **Points of Interest - Commercial Services**<br>PointX | September 2021 | Quarterly |
| **Points of Interest - Education and Health**<br>PointX | September 2021 | Quarterly |
| **Points of Interest - Manufacturing and Production**<br>PointX | September 2021 | Quarterly |
| **Points of Interest - Public Infrastructure**<br>PointX | September 2021 | Quarterly |
| **Points of Interest - Recreational and Environmental**<br>PointX | September 2021 | Quarterly |
| **Underground Electrical Cables**<br>National Grid | May 2021 | Annually |

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

# 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**<br>British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk |
| 2 | **Environment Agency - National Customer Contact Centre (NCCC)**<br>PO Box 544, Templeborough, Rotherham, S60 1BY | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk |
| 3 | **Environment Agency - Head Office**<br>Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD | Telephone: 01454 624400<br>Fax: 01454 624409 |
| 4 | **Ordnance Survey**<br>Adanac Drive, Southampton, Hampshire, SO16 0AS | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk |
| 5 | **Suffolk County Council**<br>St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ | Telephone: 01473 583000<br>Fax: 01473 230240<br>Website: www.suffolkcc.gov.uk |
| 6 | **Babergh District Council - Environmental Services**<br>Council Offices, Corks Lane, Hadleigh, Ipswich, Suffolk, IP7 6SJ | Telephone: 01473 825880<br>Fax: 01473 825738<br>Website: www.babergh.gov.uk |
| 7 | **PointX**<br>7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY | Website: www.pointx.co.uk |
| 8 | **Natural England**<br>County Hall, Spetchley Road, Worcester, WR5 2NP | Telephone: 0300 060 3900<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk |
| - | **Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards**<br>Chilton, Didcot, Oxfordshire, OX11 0RQ | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org |
| - | **Landmark Information Group Limited**<br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

# Geology 1:50,000 Maps Legends

## Artificial Ground and Landslip

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | SLIP | Landslide Deposit | Unknown/Unclassified Entry | Not Supplied - Quaternary |

## Superficial Geology

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | TFD | Tidal Flat Deposits | Clay and Silt | Not Supplied - Holocene |
| | ITDU | Intertidal Deposits (Undifferentiated) | Clay and Silt | Not Supplied - Holocene |
| | LOFT | Lowestoft Formation | Sand and Gravel | Not Supplied - Anglian |
| | KGCA | Kesgrave Catchment Subgroup | Sand and Gravel | Not Supplied - Pleistocene |
| | HEAD | Head | Diamicton | Not Supplied - Quaternary |
| | HEAD | Head | Silt | Not Supplied - Quaternary |
| | MBD | Marine Beach Deposits | Sand and Gravel | Not Supplied - Quaternary |

## Bedrock and Faults

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | RCG | Red Crag Formation | Sand | Not Supplied - Piacenzian |
| | THAM | Thames Group | Clay, Silt and Sand | Not Supplied - Eocene |
| | TALM | Thanet Formation And Lambeth Group (Undifferentiated) | Clay, Silt and Sand | Not Supplied - Paleocene |

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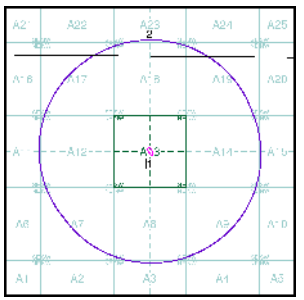
## Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

## Geology 1:50,000 Maps Coverage

| | | | |
|---|---|---|---|
| **Map ID:** | **1** | **Map ID:** | **2** |
| **Map Sheet No:** | **224** | **Map Sheet No:** | **207** |
| **Map Name:** | **Colchester** | **Map Name:** | **Ipswich** |
| **Map Date:** | **2010** | **Map Date:** | **2006** |
| **Bedrock Geology:** | **Available** | **Bedrock Geology:** | **Available** |
| **Superficial Geology:** | **Available** | **Superficial Geology:** | **Available** |
| **Artificial Geology:** | **Available** | **Artificial Geology:** | **Available** |
| **Faults:** | **Not Supplied** | **Faults:** | **Not Supplied** |
| **Landslip:** | **Available** | **Landslip:** | **Available** |
| **Rock Segments:** | **Not Supplied** | **Rock Segments:** | **Not Supplied** |

## Geology 1:50,000 Maps - Slice A




## Order Details:

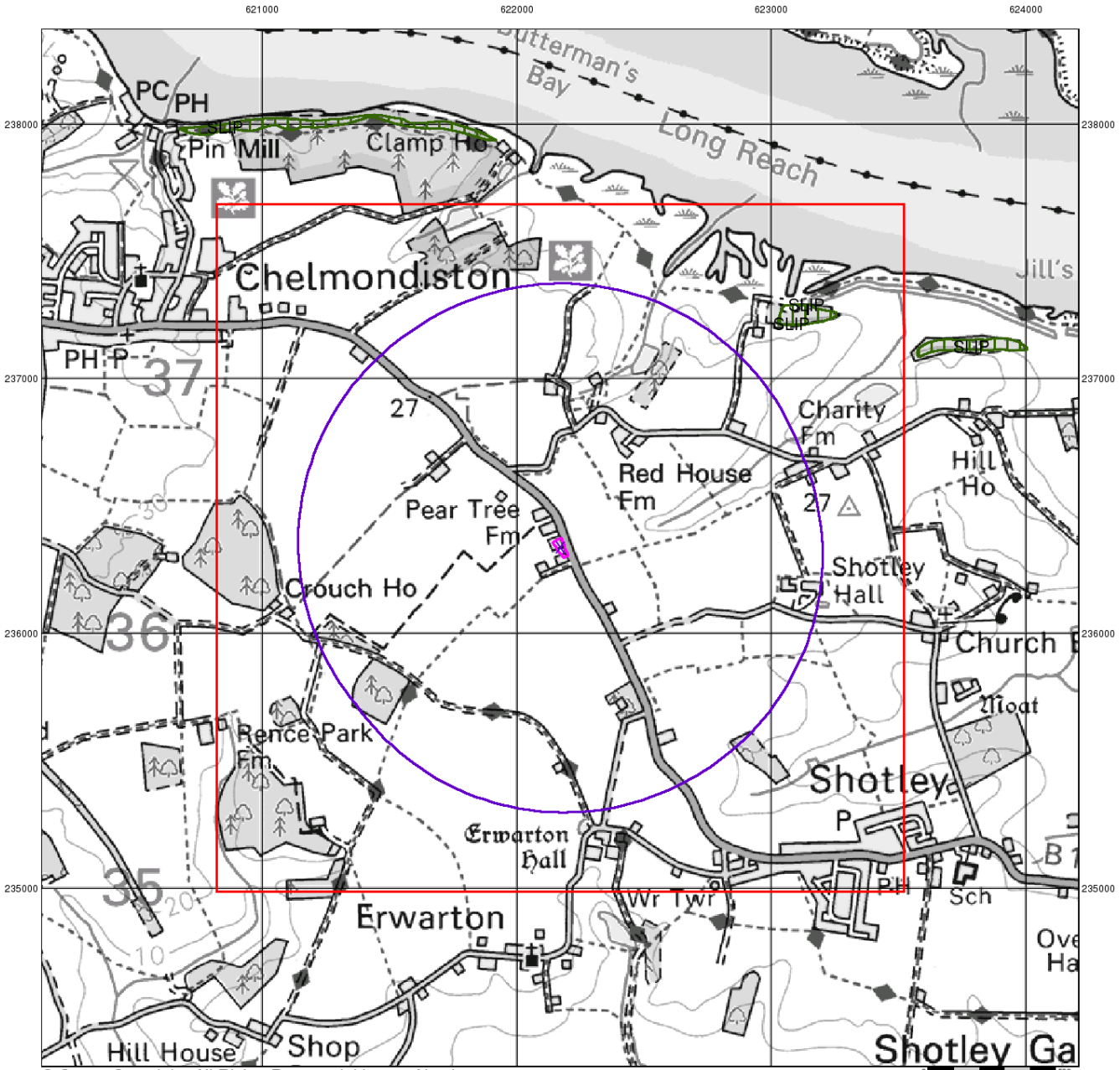
| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Reference: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details:

Farmside, Shotley, IPSWICH, IP9 1EY


Landmark® INFORMATION GROUP

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





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## Artificial Ground and Landslip

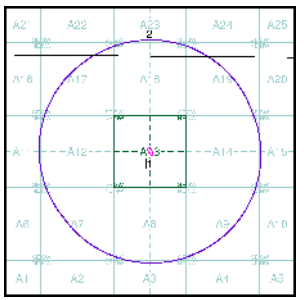
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

## Artificial Ground and Landslip Map - Slice A




## Order Details:

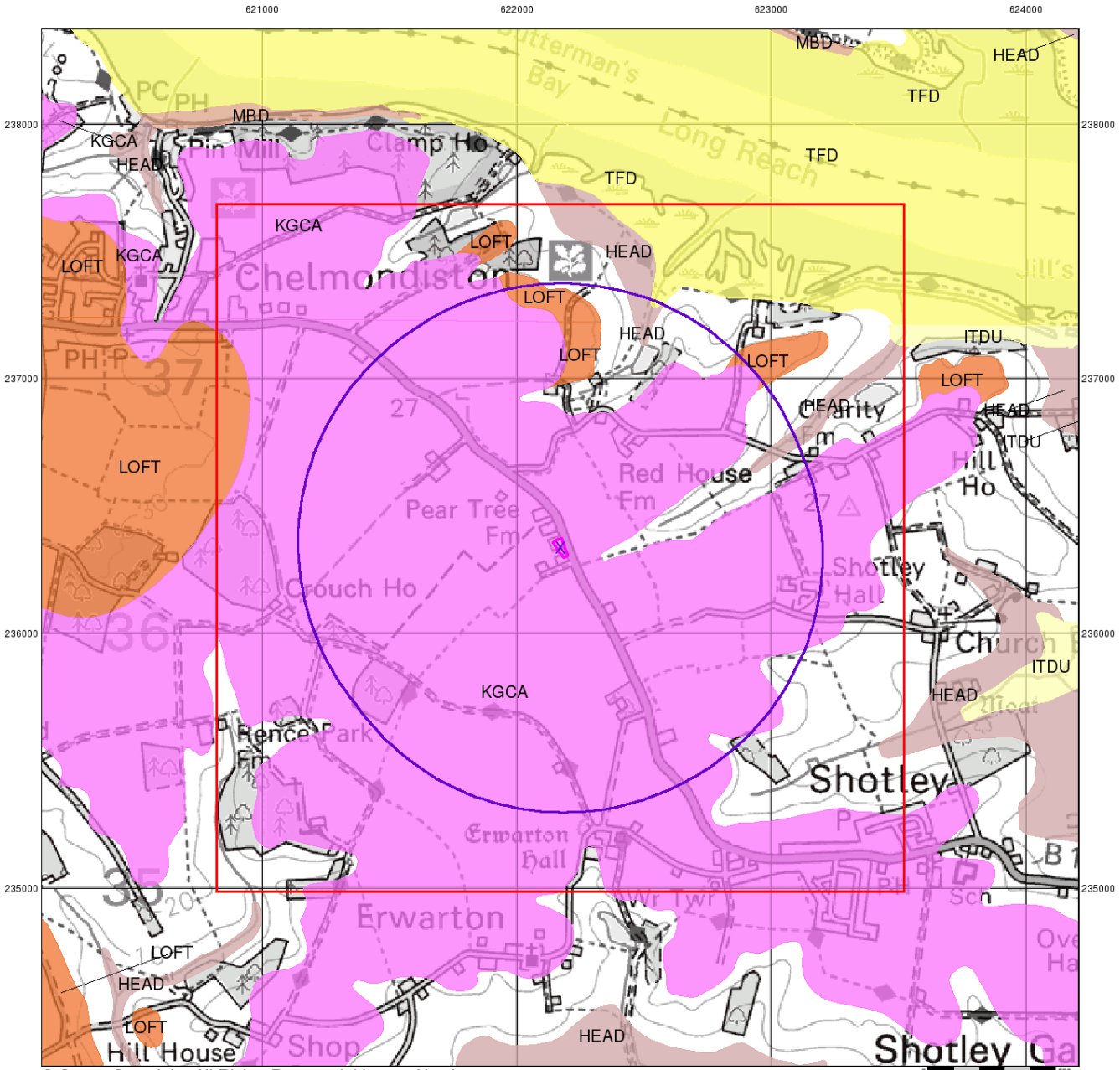
| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Reference: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details:

Farmside, Shotley, IPSWICH, IP9 1EY

Landmark INFORMATION GROUP

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



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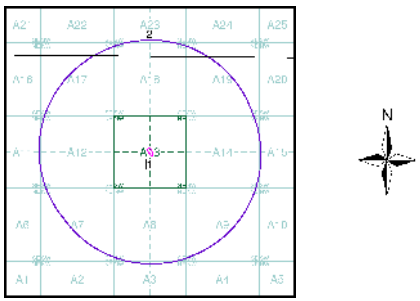
## Superficial Geology

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

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

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

## Superficial Geology Map - Slice A



## Order Details:

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|---|---|
| Order Number: | 287242165_1_1 |
| Customer Reference: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
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| Search Buffer (m): | 1000 |

## Site Details:

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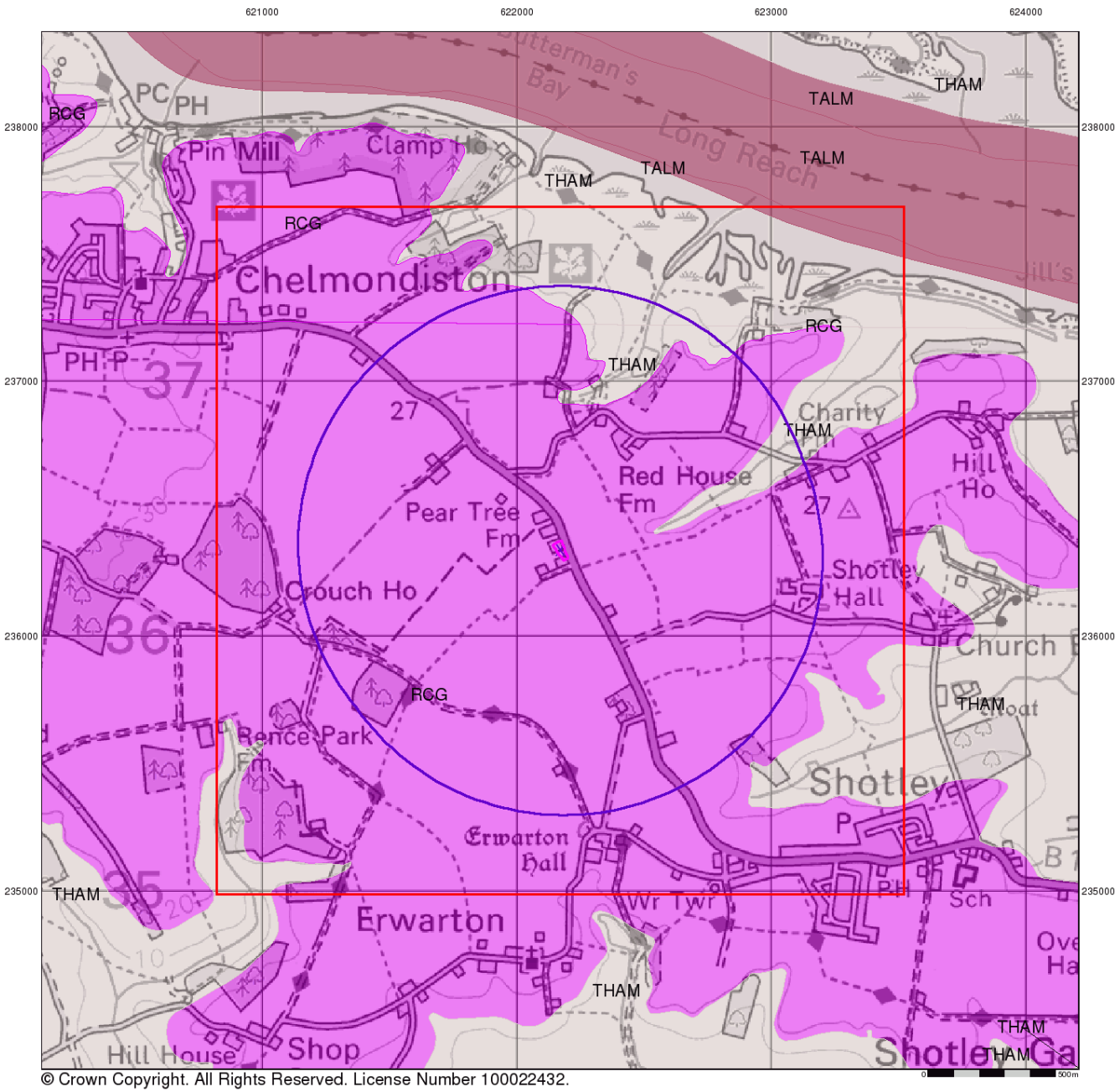



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## Bedrock and Faults

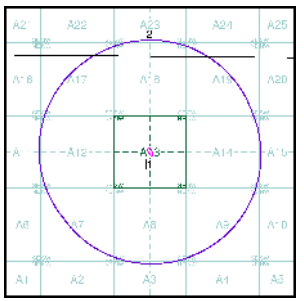
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

## Bedrock and Faults Map - Slice A




## Order Details:

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|---|---|
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| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

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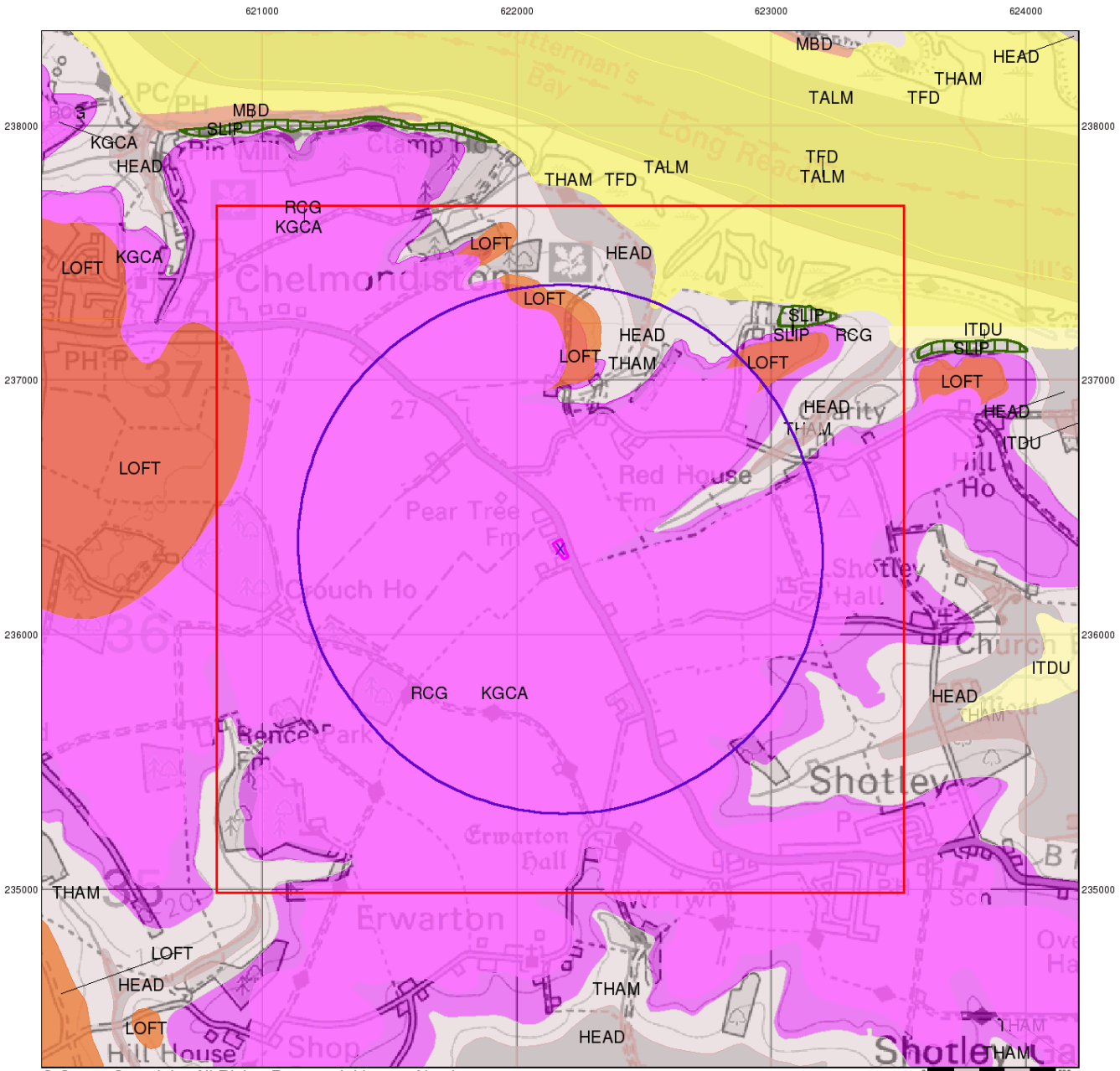




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## Combined Surface Geology

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

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

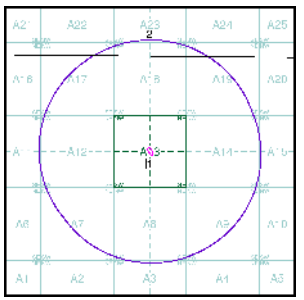
## Additional Information

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

## Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

## Combined Geology Map - Slice A

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| Search Buffer (m): | 1000 |

## Site Details:

Farmside, Shotley, IPSWICH, IP9 1EY

# Envirocheck® Report:

# Mining and Ground Stability Datasheet

## Order Details:

**Order Number:**
287242165_1_1

**Customer Reference:**
6020

**National Grid Reference:**
622170, 236340

**Slice:**
A

**Site Area (Ha):**
0.22

**Search Buffer (m):**
1000

## Site Details:

Farmside, Shotley
IPSWICH
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## Client Details:

Miss H Painter
Geosphere Environmental Ltd
Brightwell Barns
Ipswich Road
Brightwell
Suffolk
IP10 0BJ

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# Contents





**Report Version v53.0**

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|---|---|---|---|---|---|
| **Mining and Natural Cavities Data** | | | | | |
| BGS Recorded Mineral Sites | pg 1 | | | | 4 |
| Coal Mining Affected Areas | | | n/a | n/a | n/a |
| Man Made Mining Cavities | | | | | |
| Mining Instability | | | n/a | n/a | n/a |
| Natural Cavities | | | | | |
| Non Coal Mining Areas of Great Britain | | | | n/a | n/a |
| Potential Mining Areas | | | | | |
| **Historical Land Use Information (1:2,500)** | | | | | |
| Extractive Industries or Potential Excavations from 1855-1909 (100m) | | | | n/a | n/a |
| Extractive Industries or Potential Excavations from 1893-1915 (100m) | | | | n/a | n/a |
| Extractive Industries or Potential Excavations from 1906-1937 (100m) | | | | n/a | n/a |
| Extractive Industries or Potential Excavations from 1924-1949 (100m) | | | | n/a | n/a |
| Extractive Industries or Potential Excavations from 1950-1980 (100m) | pg 2 | | 1 | n/a | n/a |
| Subterranean Features (100m) | | | | n/a | n/a |
| **Historical Land Use Information (1:10,000)** | | | | | |
| Air Shafts | | | | | |
| Disturbed Ground | | | | | |
| General Quarrying | | | | | |
| Heap, unknown constituents | | | | | |
| Mineral Railway | | | | | |
| Mining & quarrying general | | | | | |
| Mining of coal & lignite | | | | | |
| Quarrying of sand & clay, operation of sand & gravel pits | pg 3 | | | | 2 |
| Former Marshes | | | | | |
| Potentially Infilled Land (Non-Water) | | | | | |
| Potentially Infilled Land (Water) | | | | | |
| **Ground Stability Data (1:50,000)** | | | | | |
| CBSCB Compensation District | | | n/a | n/a | n/a |
| Brine Pumping Related Features | | | | | |
| Brine Subsidence Solution Area | | | | | |
| Potential for Collapsible Ground Stability Hazards | pg 4 | Yes | | n/a | n/a |
| Potential for Compressible Ground Stability Hazards | pg 4 | Yes | | n/a | n/a |
| Potential for Ground Dissolution Stability Hazards | pg 4 | Yes | | n/a | n/a |
| Potential for Landslide Ground Stability Hazards | pg 4 | Yes | | n/a | n/a |
| Potential for Running Sand Ground Stability Hazards | pg 4 | Yes | Yes | n/a | n/a |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | pg 4 | Yes | | n/a | n/a |
| Salt Mining Related Features | | | | | |

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# Summary

**Report Version v53.0**

# Mining and Natural Cavities Data

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 1 | **BGS Recorded Mineral Sites**<br>Site Name: Wash Lane Pit<br>Location: Shotley Common, Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 233559<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Eocene<br>Geology: Thames Group<br>Commodity: Coprolite<br>Positional Accuracy: Located by supplier to within 10m | A18SE (N) | 591 | 1 | 622192 236965 |
| 1 | **BGS Recorded Mineral Sites**<br>Site Name: Wash Lane Pit<br>Location: Shotley Common, Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 233559<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Tertiary - Quaternary<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A18SE (N) | 591 | 1 | 622192 236965 |
| 2 | **BGS Recorded Mineral Sites**<br>Site Name: Redhouse Farm Sand Pit<br>Location: Chelmondiston, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 213525<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Neogene<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A19SW (NE) | 804 | 1 | 622686 236994 |
| 3 | **BGS Recorded Mineral Sites**<br>Site Name: Styngham Cottages Pit<br>Location: Shotley, Ipswich, Suffolk<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 213705<br>Type: Opencast<br>**Status: Ceased**<br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Neogene<br>Geology: Red Crag Formation<br>Commodity: Sand<br>Positional Accuracy: Located by supplier to within 10m | A9SW (SE) | 932 | 1 | 622786 235581 |
| | **Coal Mining Affected Areas**<br>In an area which may not be affected by coal mining | | | | |
| | **Non Coal Mining Areas of Great Britain**<br>No Hazard | | | | |

# Historical Land Use Information (1:2,500)

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 4 | **Extractive Industries or Potential Excavations from 1950-1980**<br>Use: Well<br>First Map Published Date: 1968<br>Last Map Published Date: N/A | A13SE (S) | 44 | - | 622174 236256 |

# Historical Land Use Information (1:10,000)

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 5 | **Quarrying of sand & clay, operation of sand & gravel pits**<br>Use: Not Supplied<br>Date of Mapping: 1891 | A19SW (NE) | 806 | - | 622699 236986 |
| 6 | **Quarrying of sand & clay, operation of sand & gravel pits**<br>Use: Not Supplied<br>Date of Mapping: 1990 | A9SW (SE) | 931 | - | 622783 235581 |

# Ground Stability Data (1:50,000)

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **CBSCB Compensation District**<br>The site does not fall within the brine compensation area. | | | | |
| | **Brine Subsidence Solution Area**<br>The site does not fall within the brine subsidence solution area. | | | | |
| 7 | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| 8 | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| 9 | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (E) | 128 | 1 | 622328 236302 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NE (SW) | 0 | 1 | 622173 236336 |

# Historical Map List

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

| 1:2,500 | Mapsheet | Published Date |
|---|---|---|
| Ordnance Survey Plan | TM2136 | 1967 |
| Ordnance Survey Plan | TM2236 | 1968 |
| Ordnance Survey Plan | TM2135 | 1970 |
| Ordnance Survey Plan | TM2235 | 1970 |

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

| 1:10,560 | Mapsheet | Published Date |
|---|---|---|
| Essex | 021_00 | 1881 |
| Suffolk | 089_NW | 1890 |
| Suffolk | 083_SW | 1891 |
| Suffolk | 083_SW | 1904 |
| Essex | 021_NW | 1905 |
| Suffolk | 089_NW | 1905 |
| Essex | 020_SE | 1925 |
| Essex | 021_SW | 1925 |
| Suffolk | 083_SW | 1928 |
| Suffolk | 089_NW | 1928 |
| Ordnance Survey Plan | TM23NW | 1958 |
| Ordnance Survey Plan | TM23SW | 1958 |
| **1:10,000** | **Mapsheet** | **Published Date** |
| Ordnance Survey Plan | TM23NW | 1990 |
| Ordnance Survey Plan | TM23SW | 1990 |

# Data Currency

| Mining and Cavities Data | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Mineral Sites**<br>British Geological Survey - National Geoscience Information Service | May 2021 | Bi-Annually |
| **Coal Mining Affected Areas**<br>The Coal Authority - Property Searches | March 2014 | Annual Rolling Update |
| **Man Made Mining Cavities**<br>Stantec UK Ltd | May 2021 | Bi-Annually |
| **Mining Instability**<br>Ove Arup & Partners | June 1998 | Not Applicable |
| **Natural Cavities**<br>Stantec UK Ltd | May 2021 | Bi-Annually |
| **Non Coal Mining Areas of Great Britain**<br>British Geological Survey - National Geoscience Information Service | May 2015 | Not Applicable |
| **Historical Land Use Information (1:2,500)** | **Version** | **Update Cycle** |
| **Subterranean Features**<br>Landmark Information Group Limited | February 2020 | Bi-Annually |
| **Ground Stability Data (1:50,000)** | **Version** | **Update Cycle** |
| **CBSCB Compensation District**<br>Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011 | As notified |
| **Potential for Collapsible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | April 2020 | Annually |
| **Potential for Compressible Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Ground Dissolution Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Landslide Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Running Sand Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually |
| **Brine Subsidence Solution Area**<br>Johnson Poole & Bloomer | December 2020 | Annual Rolling Update |

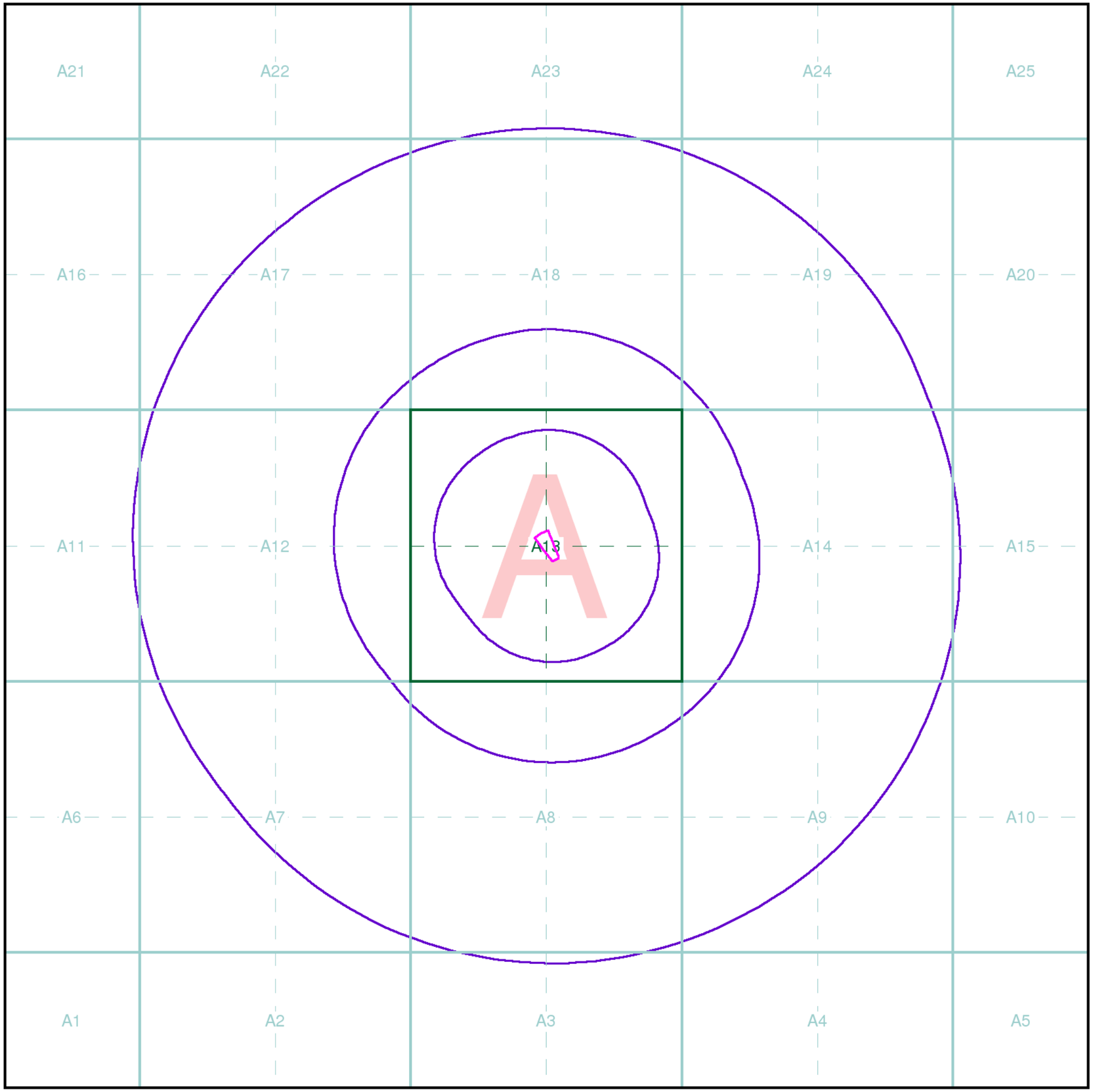
# Data Suppliers

A selection of organisations who provide data within this report

| Data Supplier | Data Supplier Logo |
|---|---|
| **Ordnance Survey** | Map data |
| **British Geological Survey** | British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL |
| **The Coal Authority** | The Coal Authority |
| **Ove Arup** | ARUP |
| **Stantec UK Ltd** | Stantec |
| **Wardell Armstrong** | wardell armstrong your earth our world |
| **Johnson Poole & Bloomer** | JPB |

# Useful Contacts

| Contact | Name and Address | Contact Details |
|---|---|---|
| 1 | **British Geological Survey - Enquiry Service**<br>British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk |
| - | **Landmark Information Group Limited**<br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

**Slice**
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

**Segment**
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

**Quadrant**
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

---

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Miss H Painter, Geosphere Environmental Ltd, Brightwell Barns, Ipswich Road, Brightwell, Suffolk, IP10 0BJ

## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
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Farmside, Shotley, IPSWICH, IP9 1EY

**Full Terms and Conditions can be found on the following link:**
http://www.landmarkinfo.co.uk/Terms/Show/515

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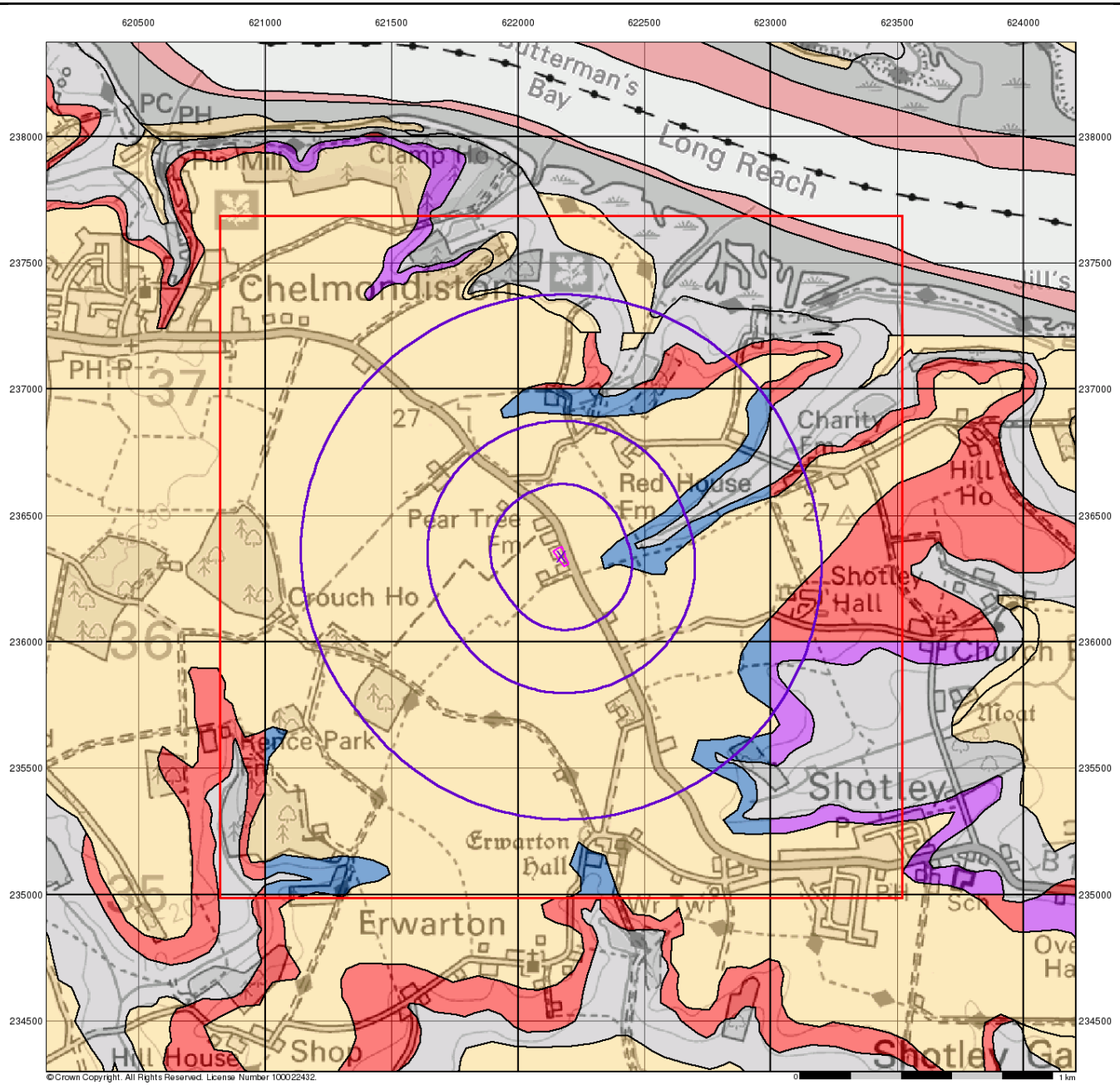
Web: www.envirocheck.co.uk

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## Groundwater Vulnerability

### General

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

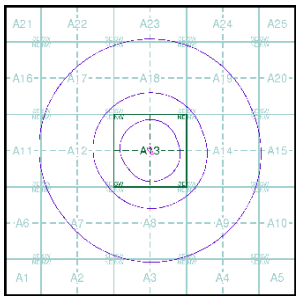
### Agency and Hydrological

| 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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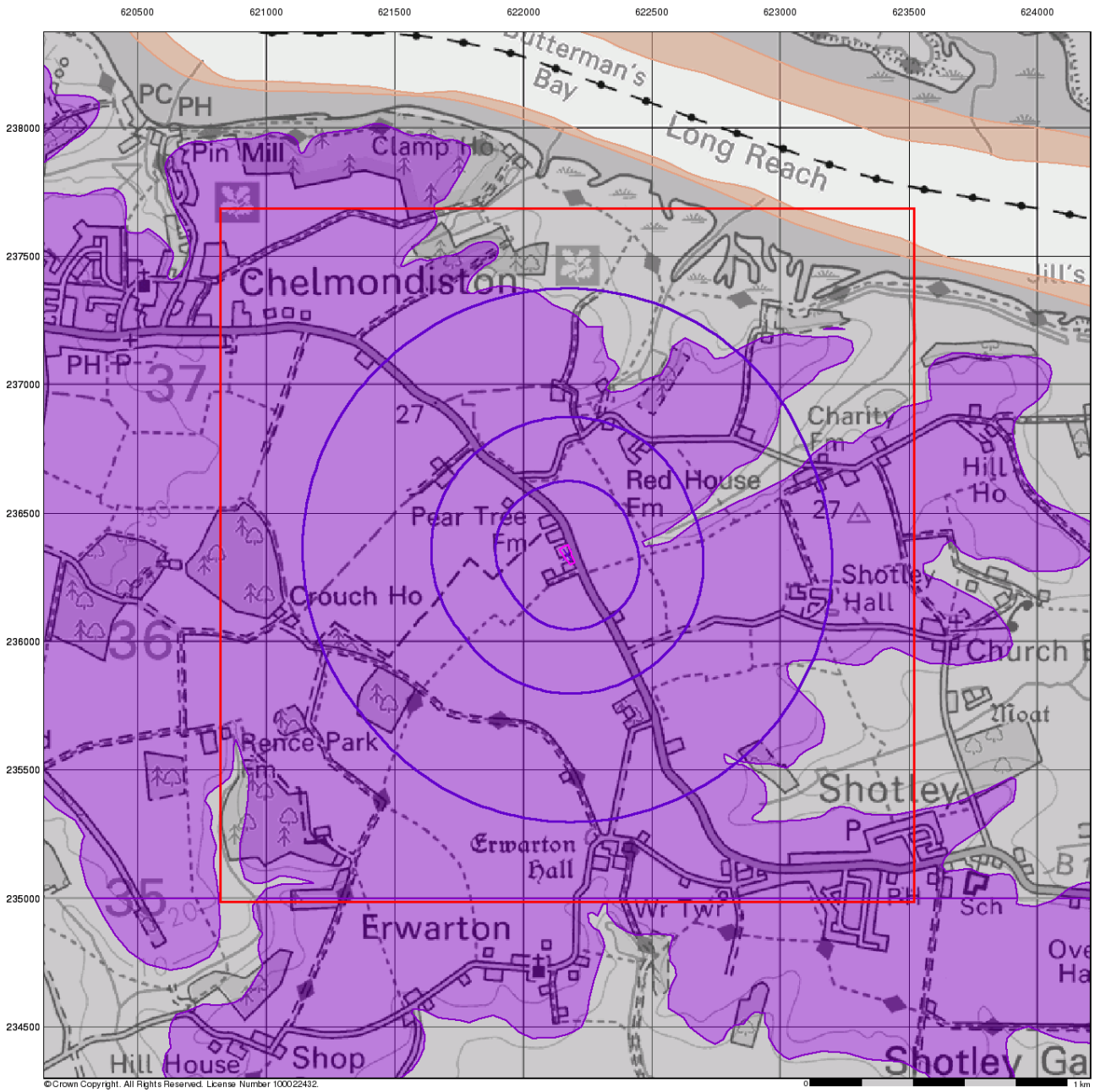


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## Bedrock Aquifer Designation

### General

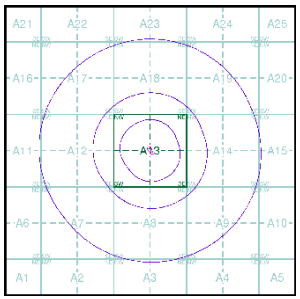
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

### 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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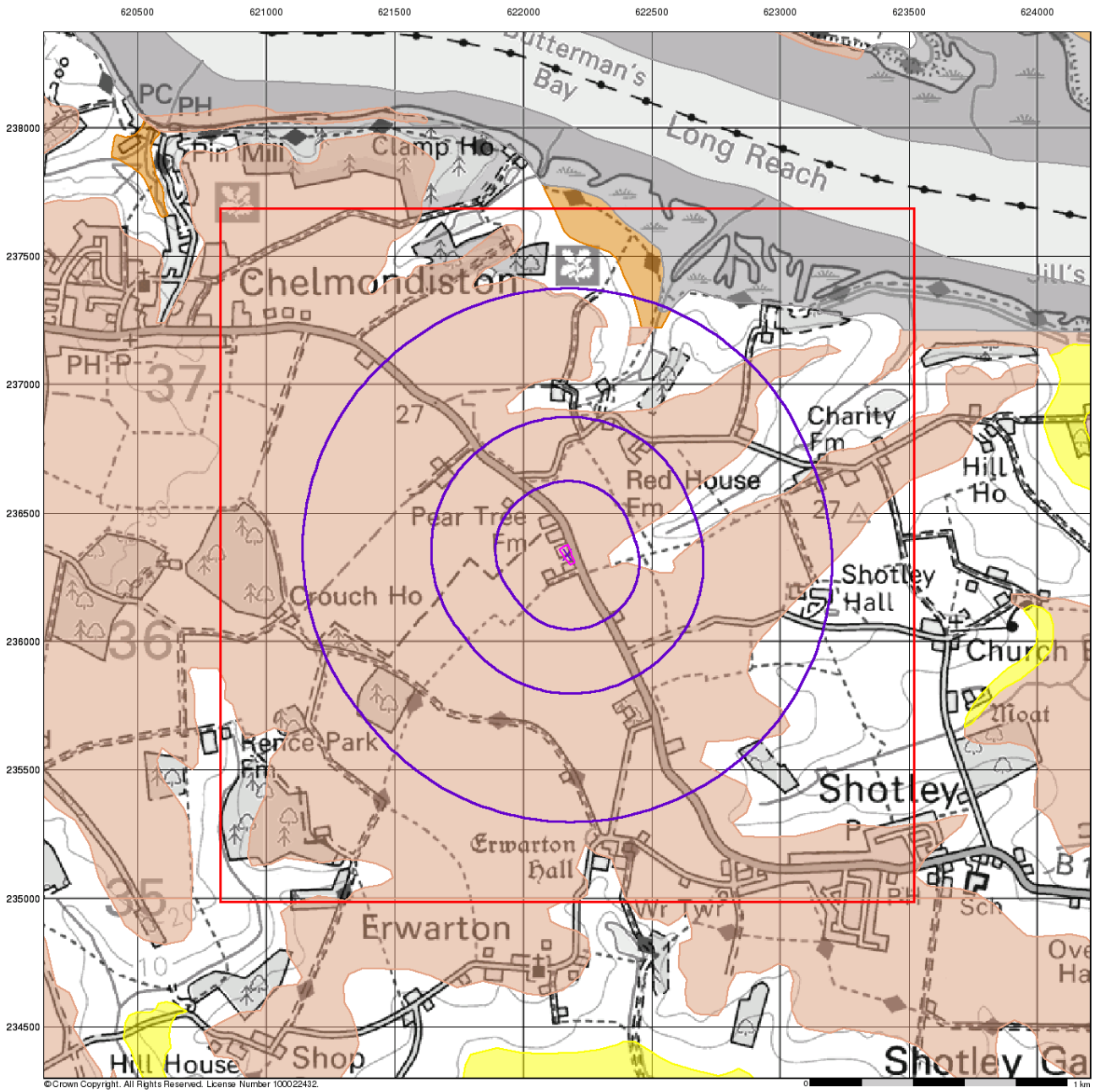



# Envirocheck®

LANDMARK INFORMATION GROUP®

## Superficial Aquifer Designation

### General

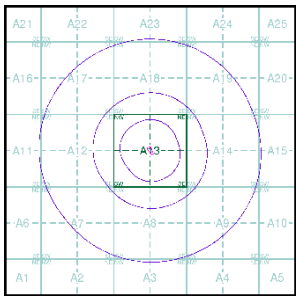
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

### Agency and Hydrological

**Geological Classes**

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

### Site Sensitivity Context Map - Slice A




### Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

### Site Details

Farmside, Shotley, IPSWICH, IP9 1EY


Landmark INFORMATION GROUP

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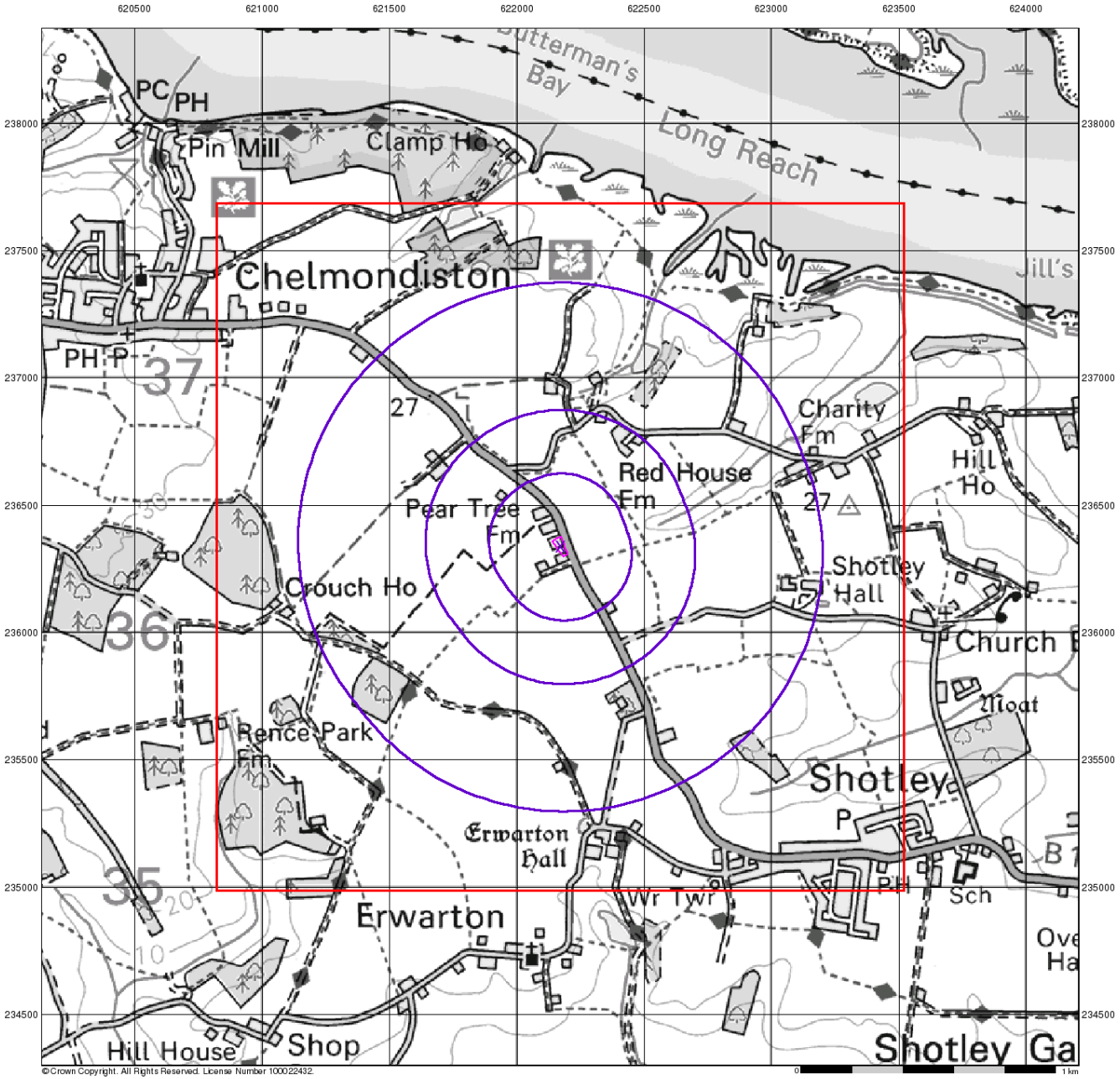


# Envirocheck®

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## Source Protection Zones

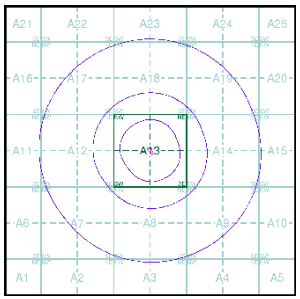
### General

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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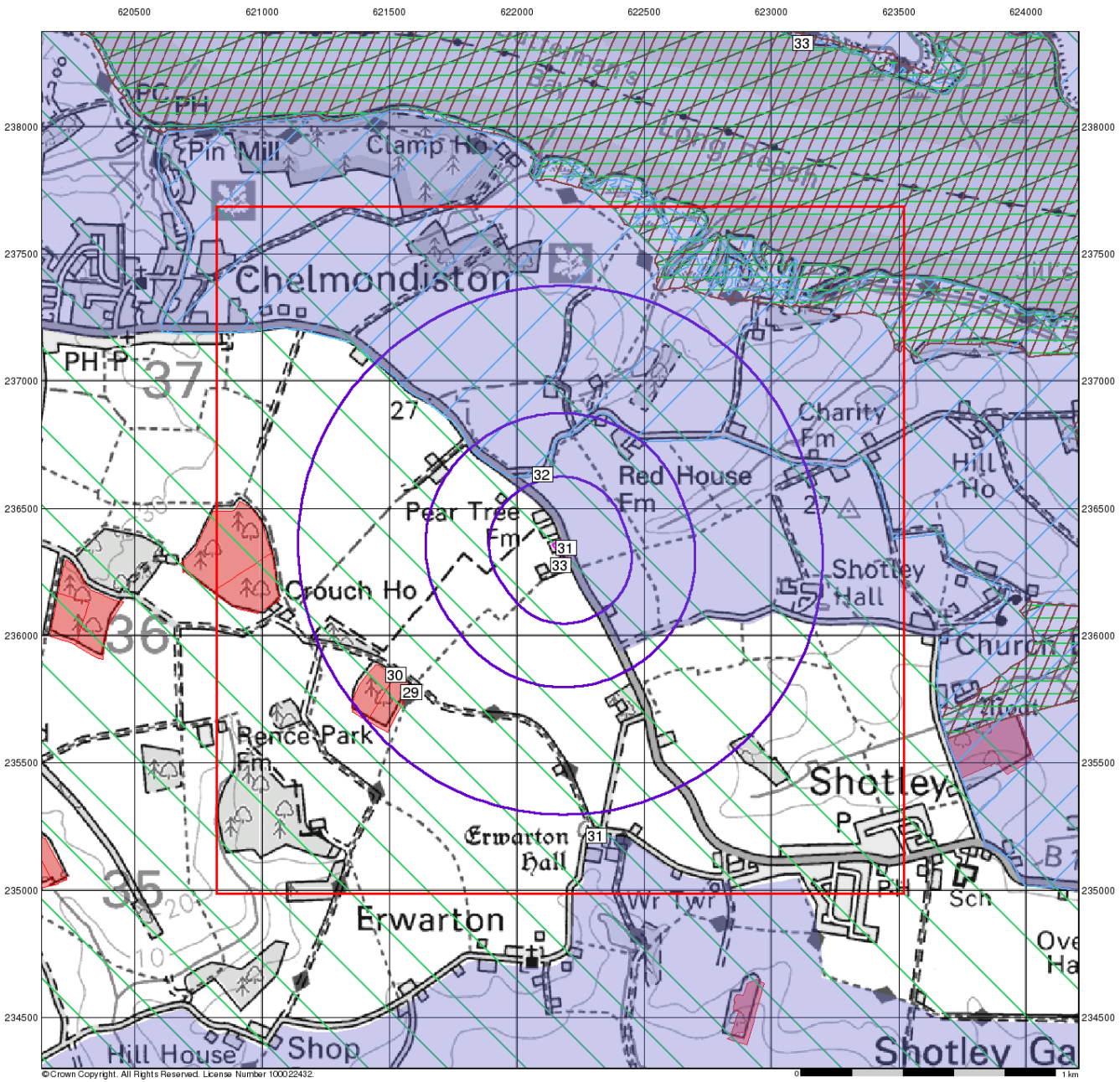



# Envirocheck®

LANDMARK INFORMATION GROUP®

## Sensitive Land Uses

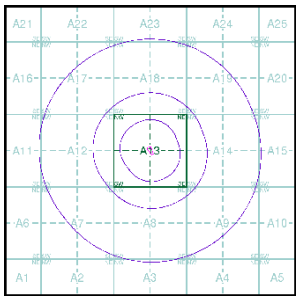
### General

- 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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| Slice: | A |
| Site Area (Ha): | 0.22 |
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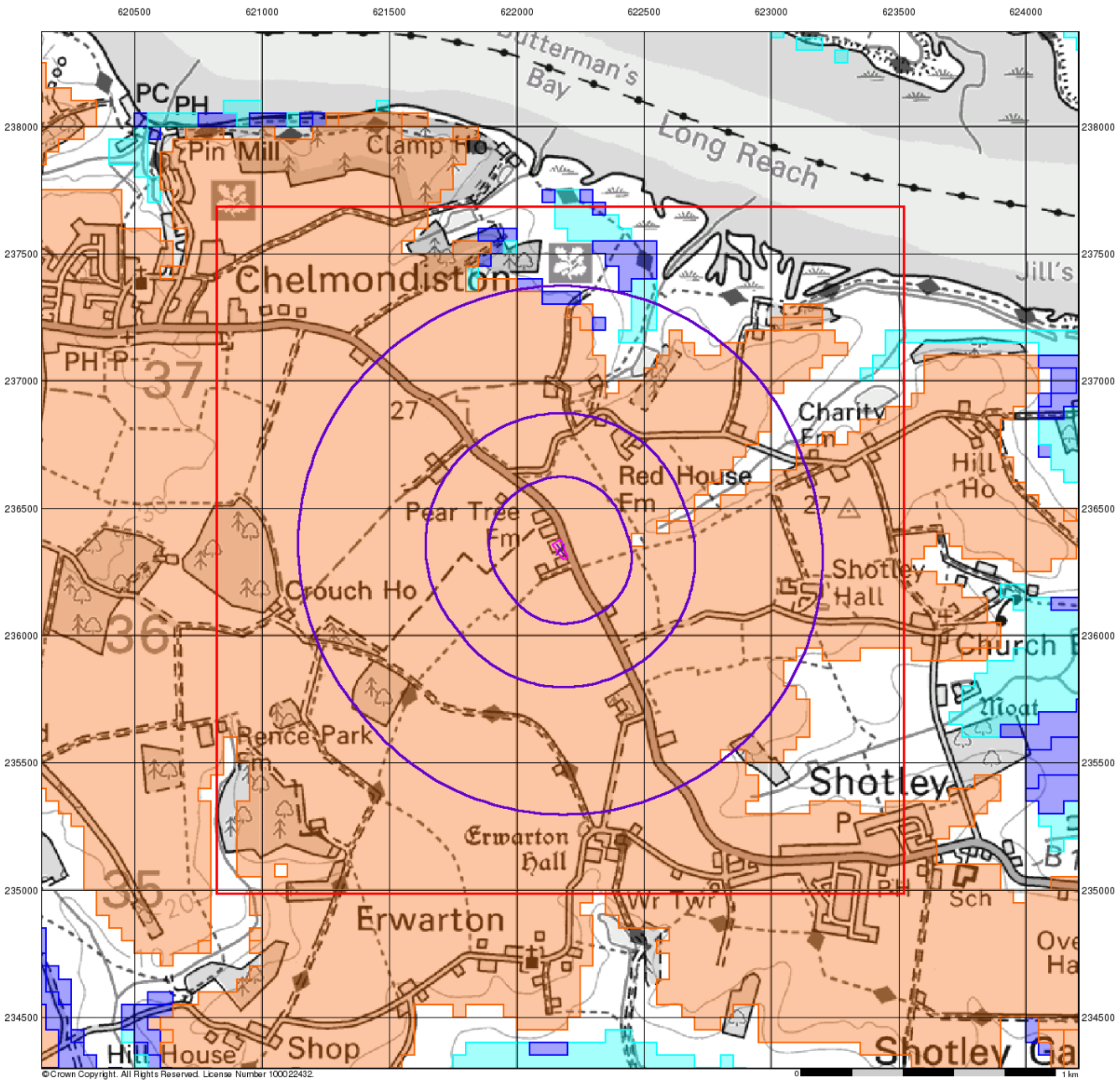



# Envirocheck®

LANDMARK INFORMATION GROUP®

## BGS Flood GFS Data

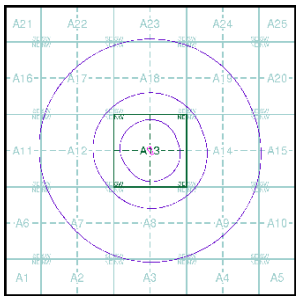
### General

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

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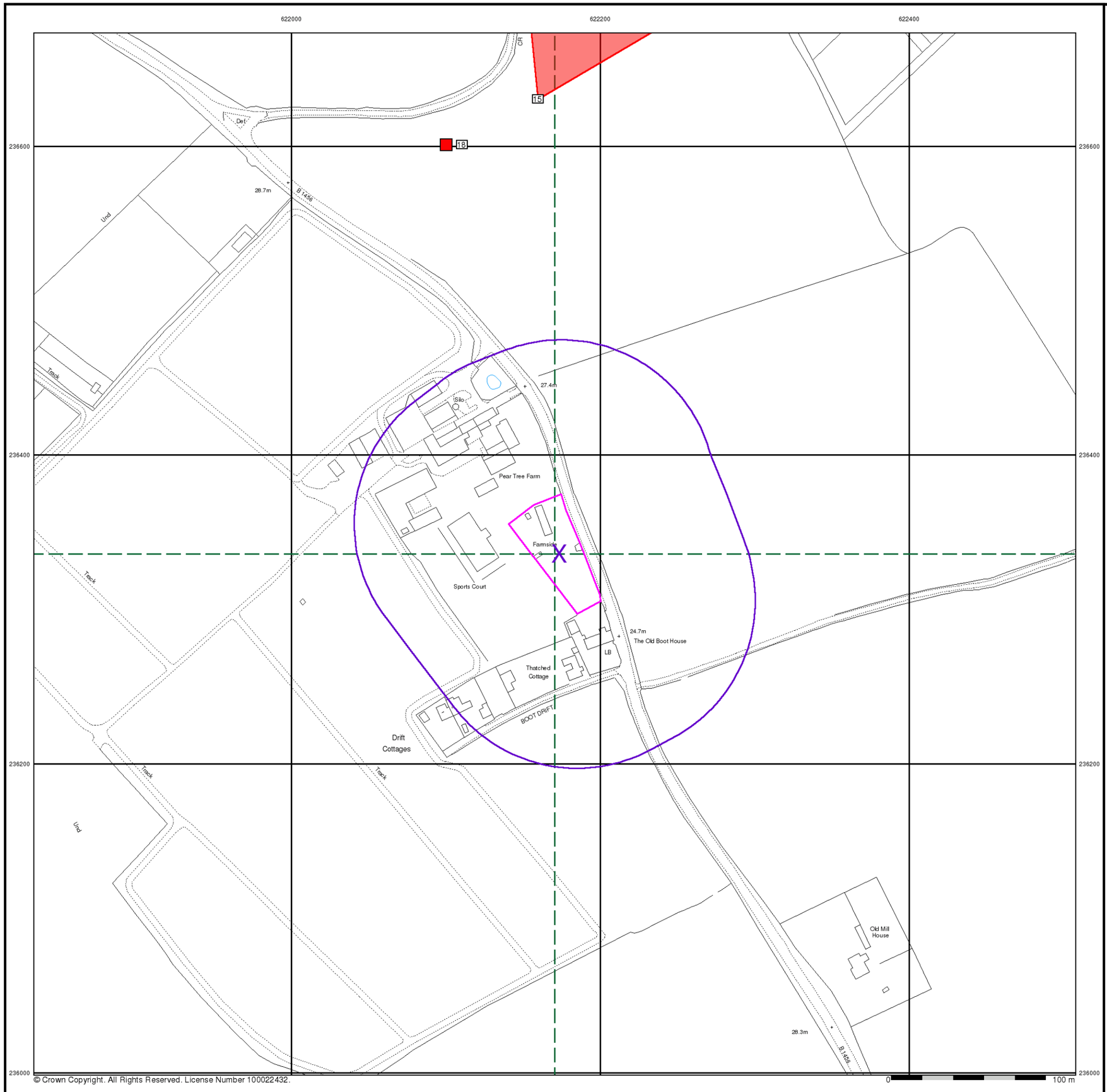




# Envirocheck®

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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

## Hazardous Substances

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

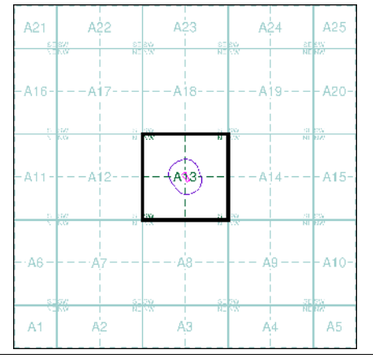
## Geological

- BGS Recorded Mineral Site

## Waste

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

## Site Sensitivity Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Plot Buffer (m): | 100 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

Landmark INFORMATION GROUP

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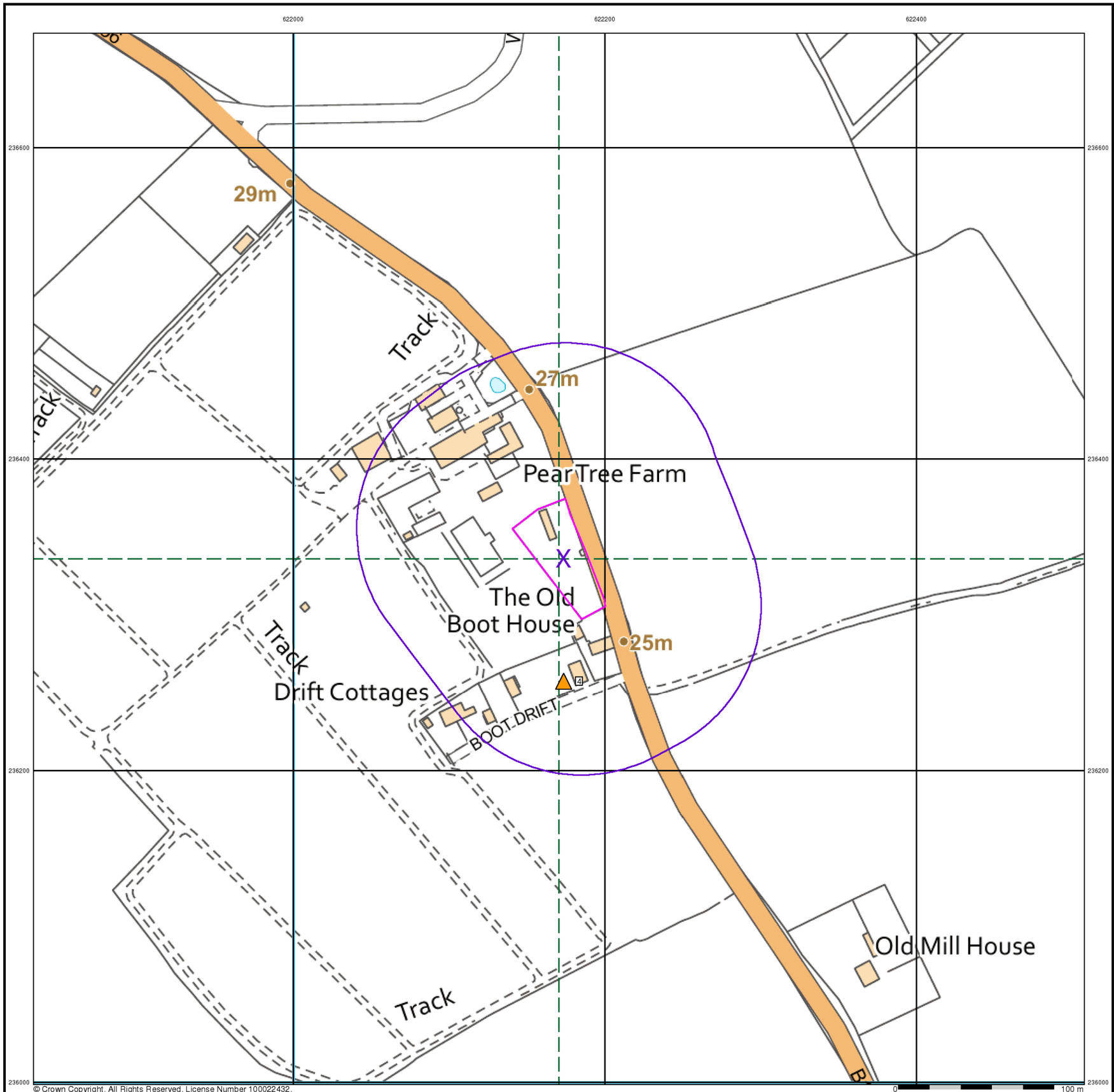





# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Land Use Information (1:2,500)

### General

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

Several of Type at Location

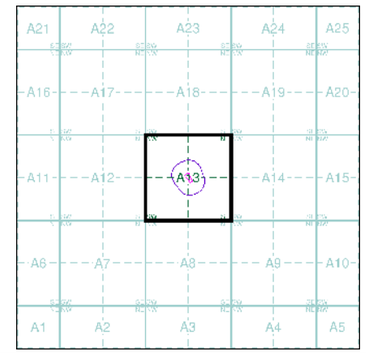
### Potentially Contaminative Industrial Uses (Extractive Industries Activity)

| | Point | Line | Polygon |
|---|---|---|---|
| Extractive Industries Activity from 1855 - 1909 | ▲ | — | ▭ |
| Extractive Industries Activity from 1893 - 1915 | ▲ | — | ▨ |
| Extractive Industries Activity from 1906 - 1937 | ▲ | — | ▤ |
| Extractive Industries Activity from 1924 - 1949 | ▲ | — | ▨ |
| Extractive Industries Activity from 1950 - 1980 | ▲ | — | ▥ |

### Subterranean Features

| | Point | Line | Polygon |
|---|---|---|---|
| Subterranean Features | ▼ | - - - | ▭ |

### Mining and Ground Stability - Segment A13

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### Site Details

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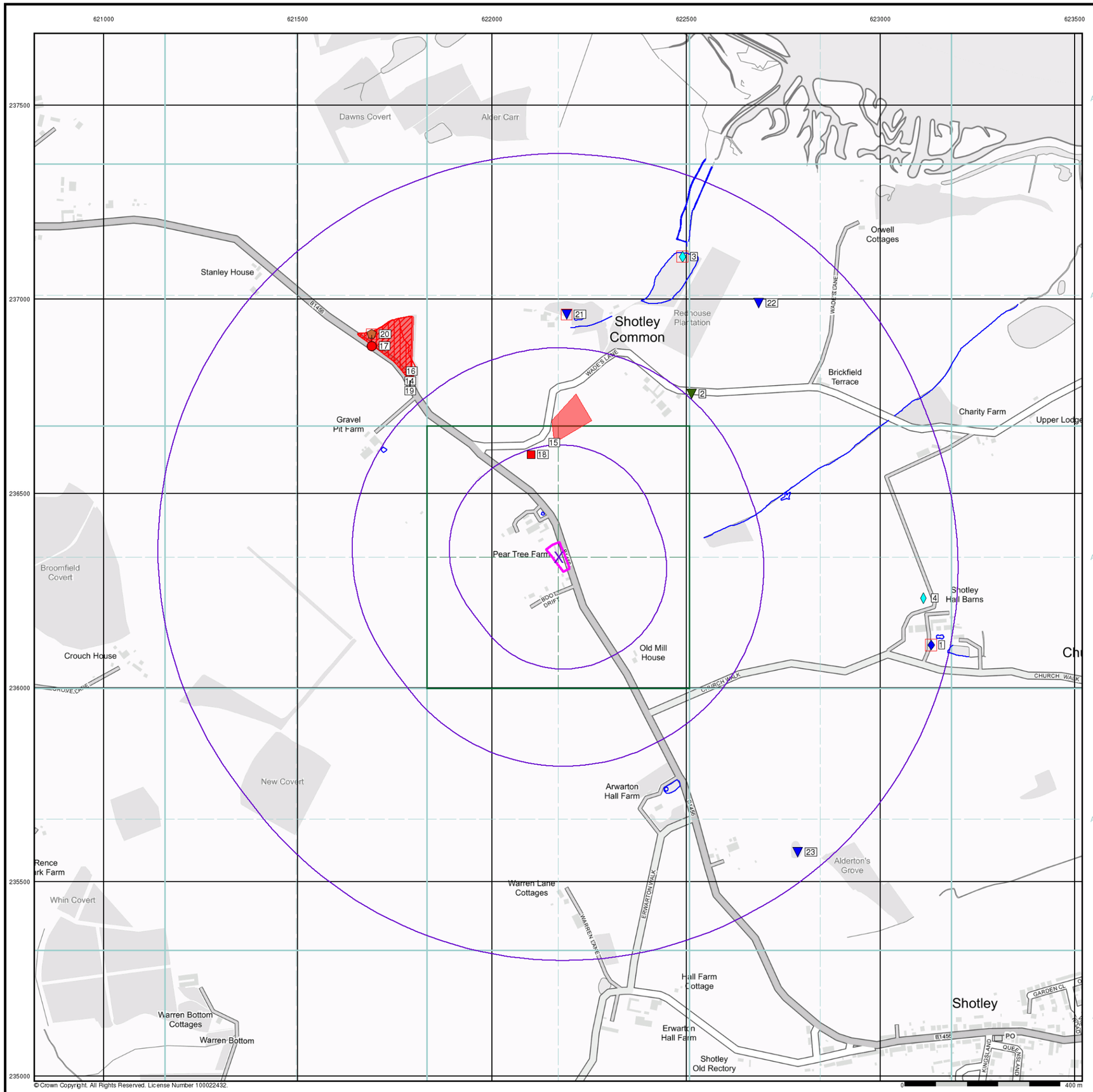




# Envirocheck®

LANDMARK INFORMATION GROUP®

## 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
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- River Network or Water Feature
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- Water Industry Act Referral

## Hazardous Substances

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- Explosive Site
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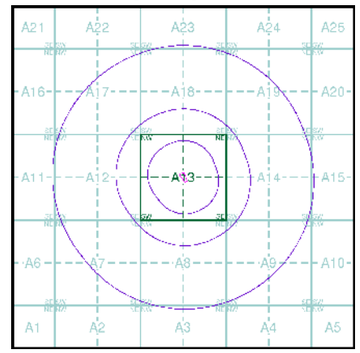
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

## Site Sensitivity Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

Landmark INFORMATION GROUP

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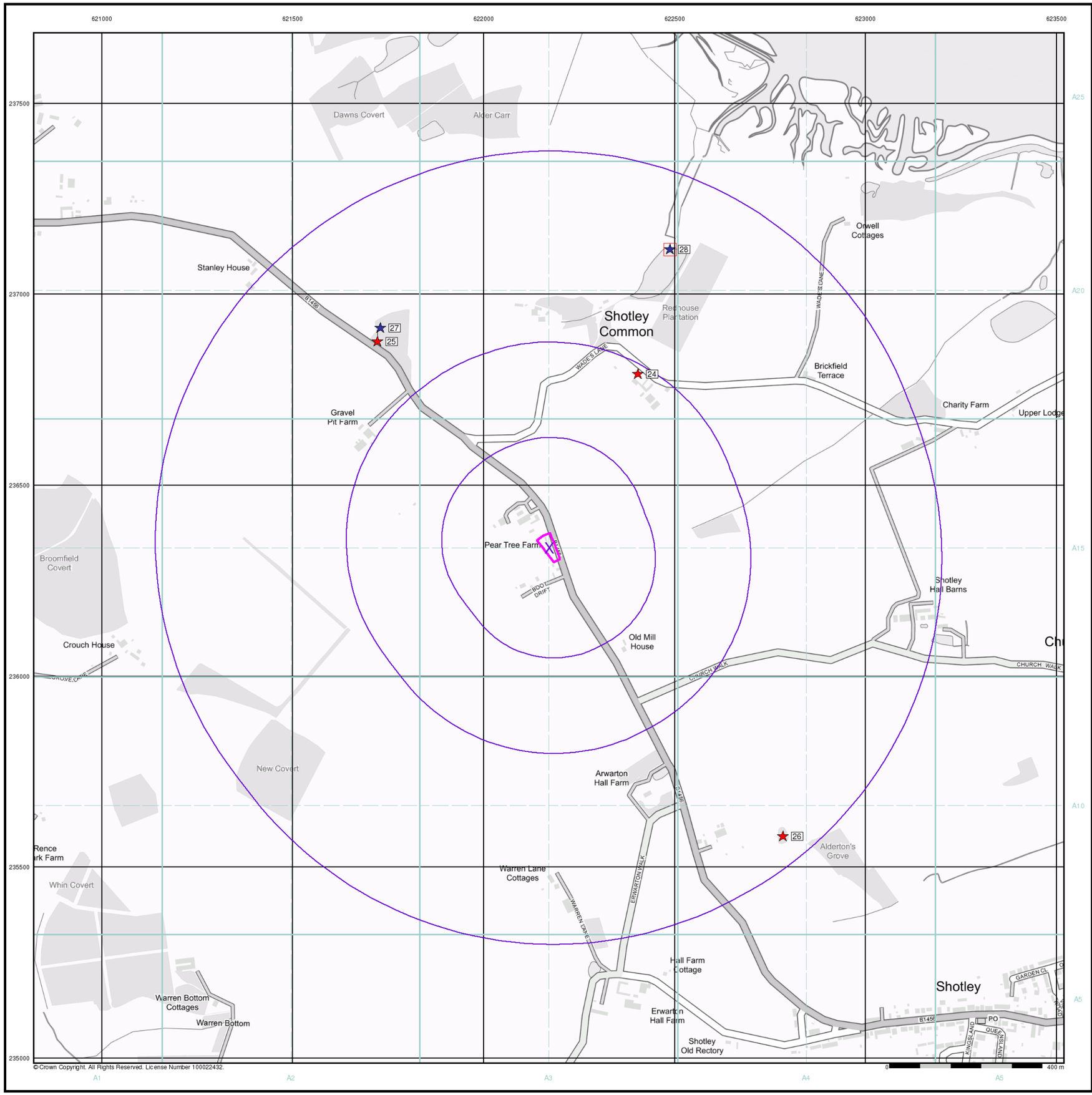




# Envirocheck®

LANDMARK INFORMATION GROUP®

## Industrial Land Use Map

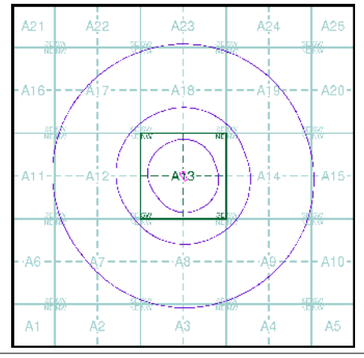
### General

- 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

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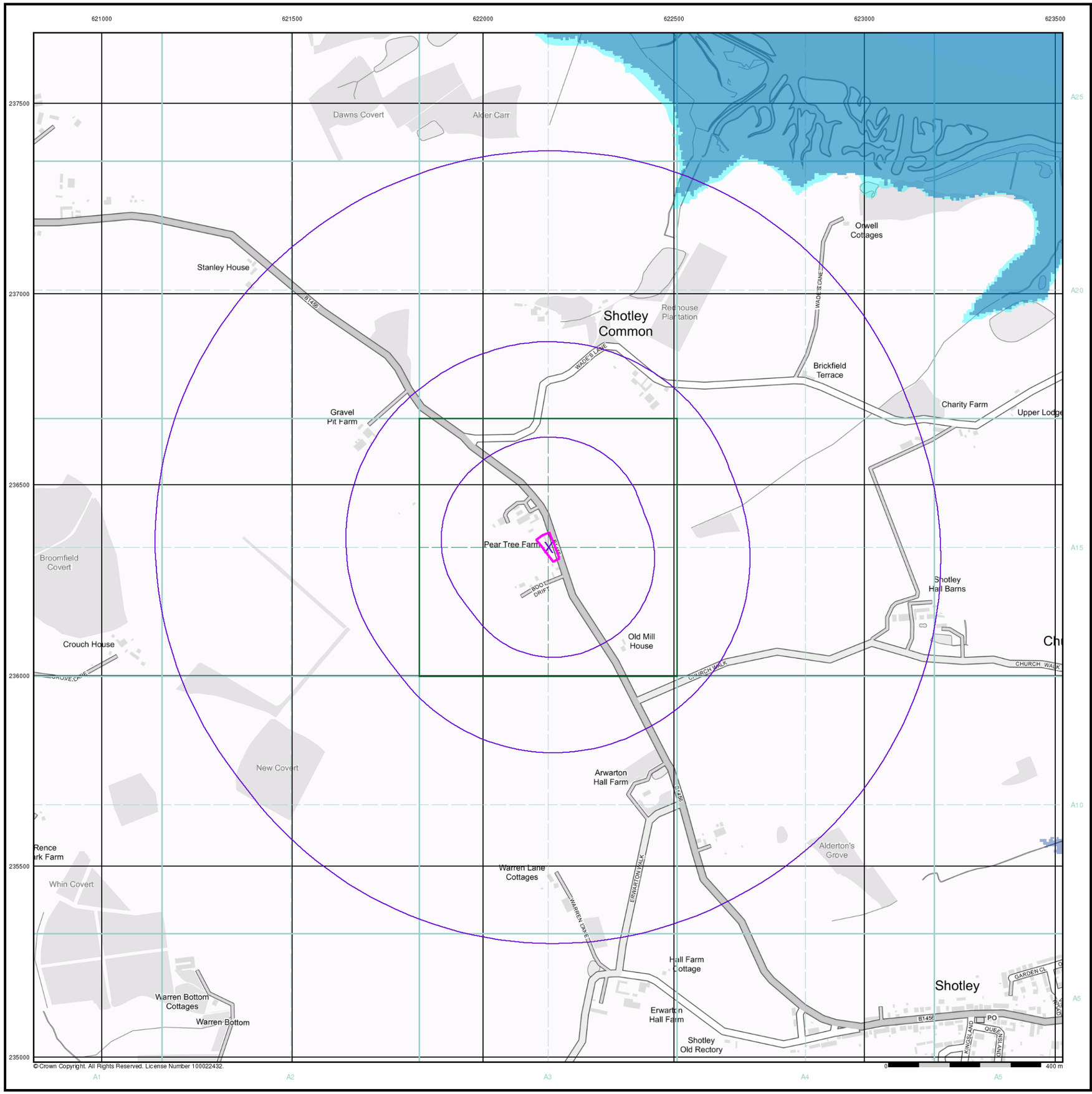



Envirocheck®

LANDMARK INFORMATION GROUP®

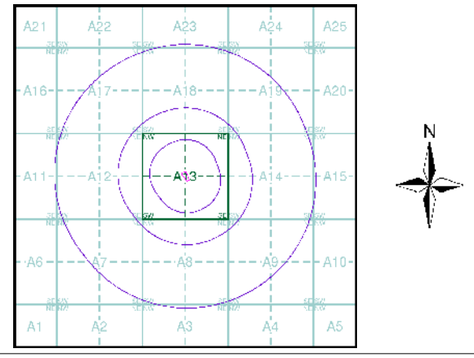
## General

- 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

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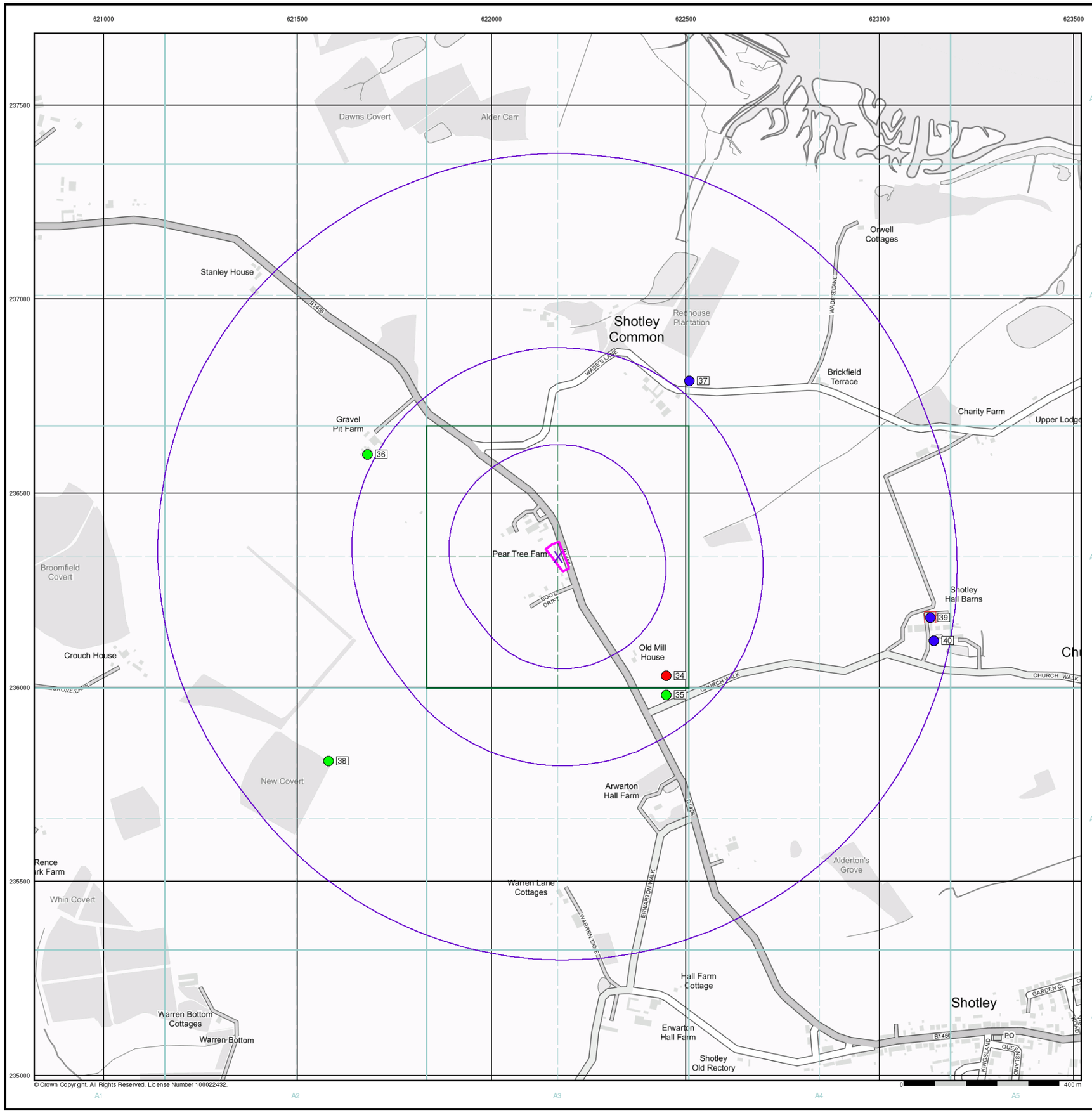




Envirocheck®

LANDMARK INFORMATION GROUP®

## General

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

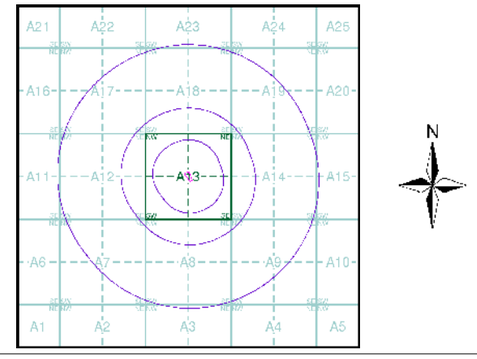
## Agency and Hydrological (Boreholes)

- 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

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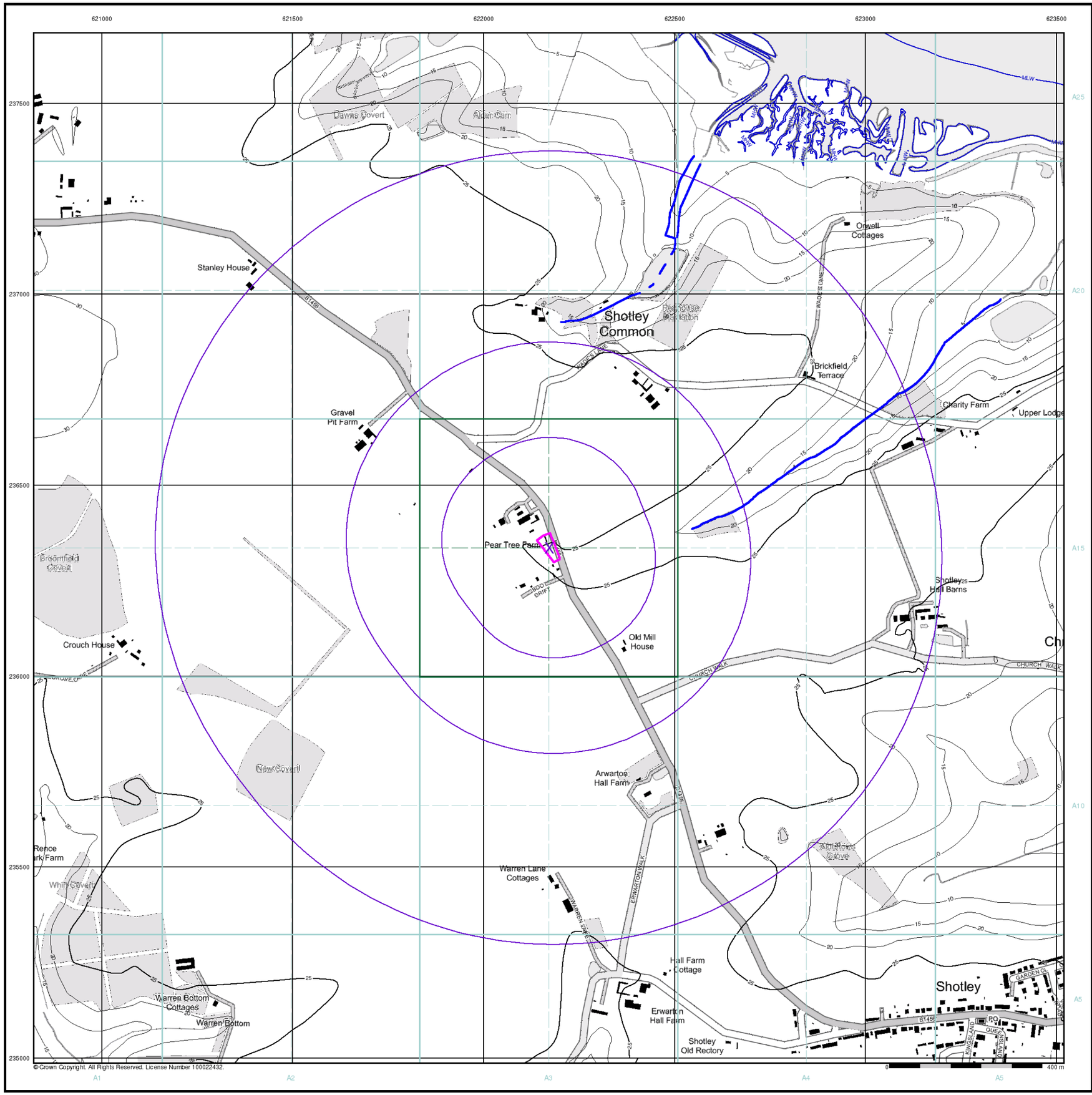



Envirocheck®

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## General

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

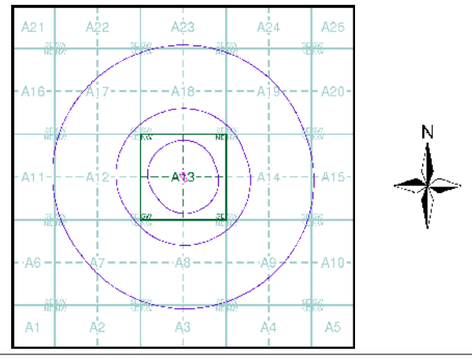
## OS Water Network Data

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

## Contours (height in meters)

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

## OS Water Network Map - Slice A

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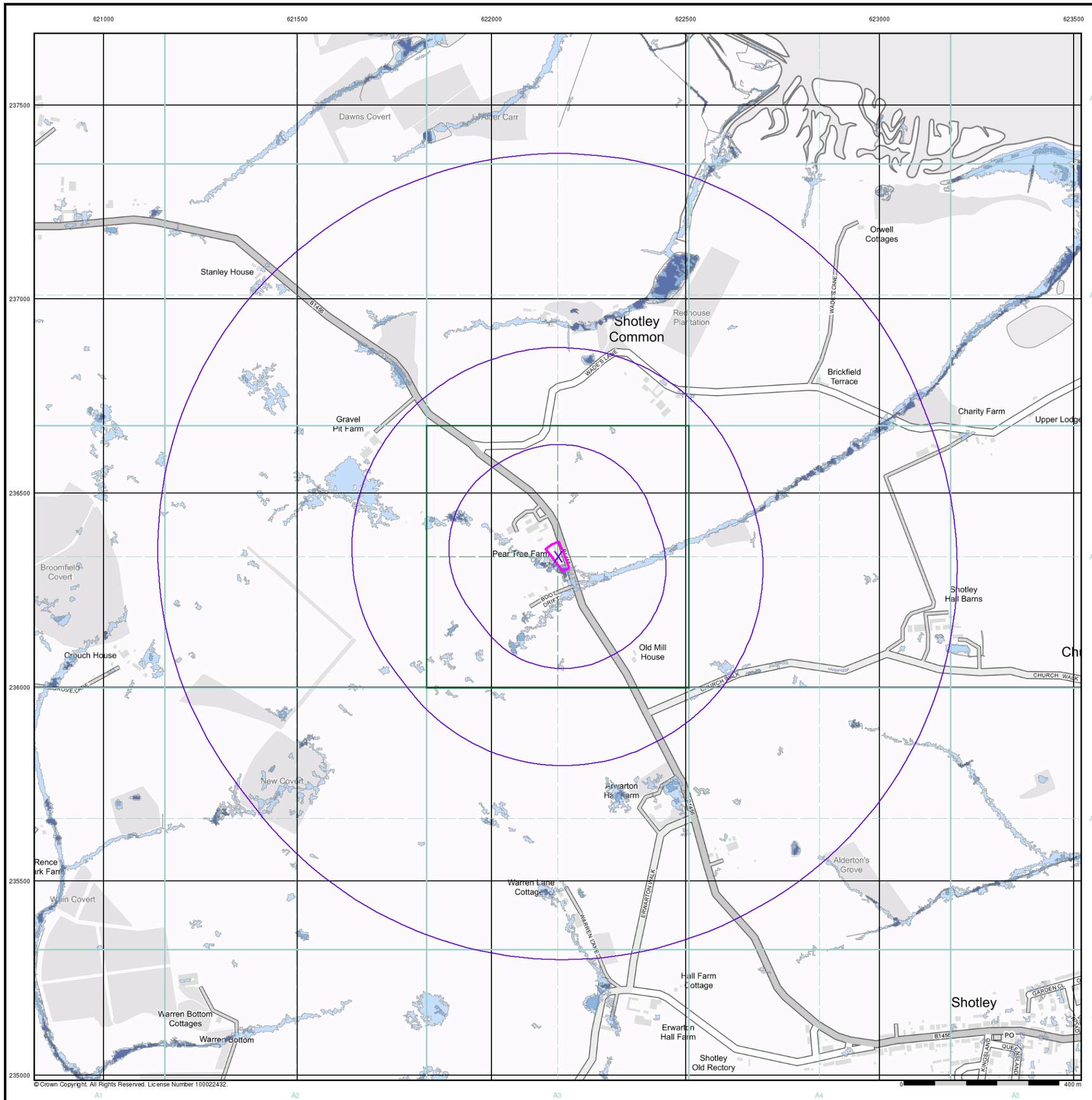



Envirocheck®

LANDMARK INFORMATION GROUP®

## General

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

## Risk of Flooding from Surface Water

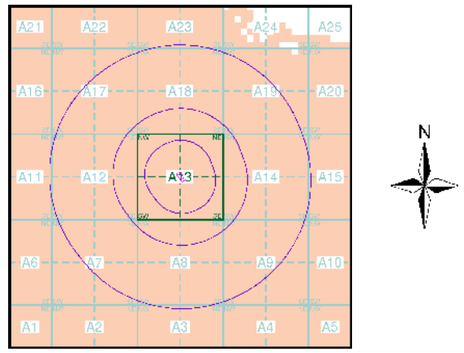
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

## 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

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| Customer Ref: | 6020 |
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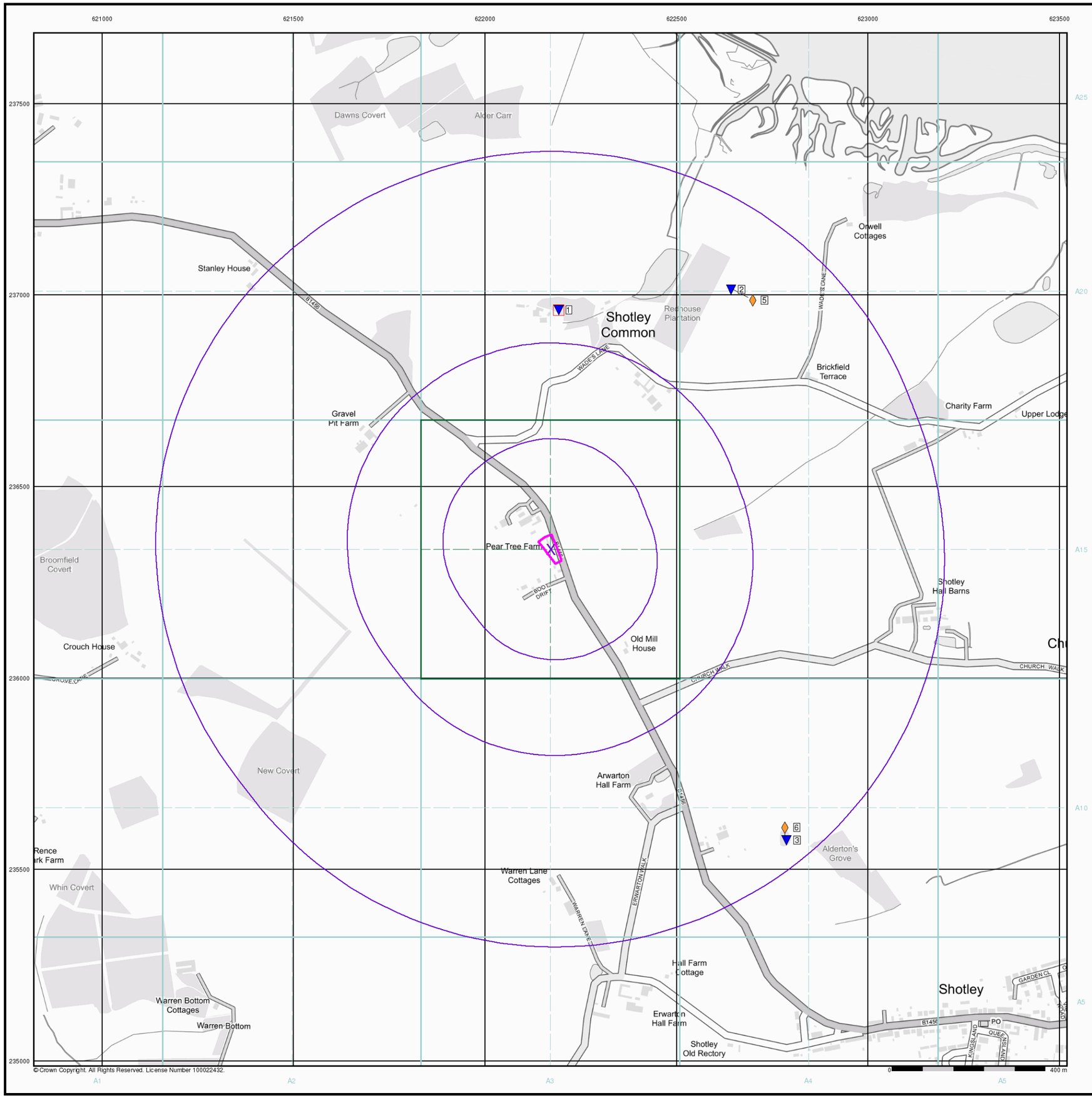





# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Land Use Information (1:10,000)

### General

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

Several of Type at Location

### Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

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

### Historical Land Use

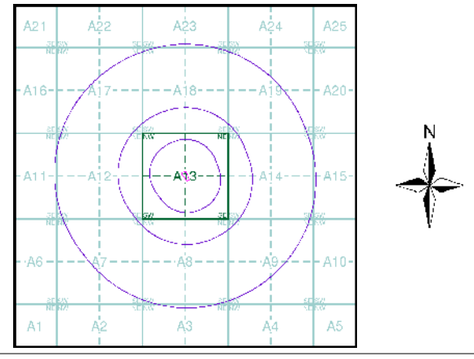
| | Point | Line | Polygon |
|---|---|---|---|
| Potentially Infilled Land (Non-Water) | ● | | |
| Potentially Infilled Land (Water) | ● | | |
| Former Marsh | ✠ | | |

### Mining Data

Potential Mining Area

BGS Recorded Mineral Site

## Mining and Ground Stability - Slice A




## Order Details

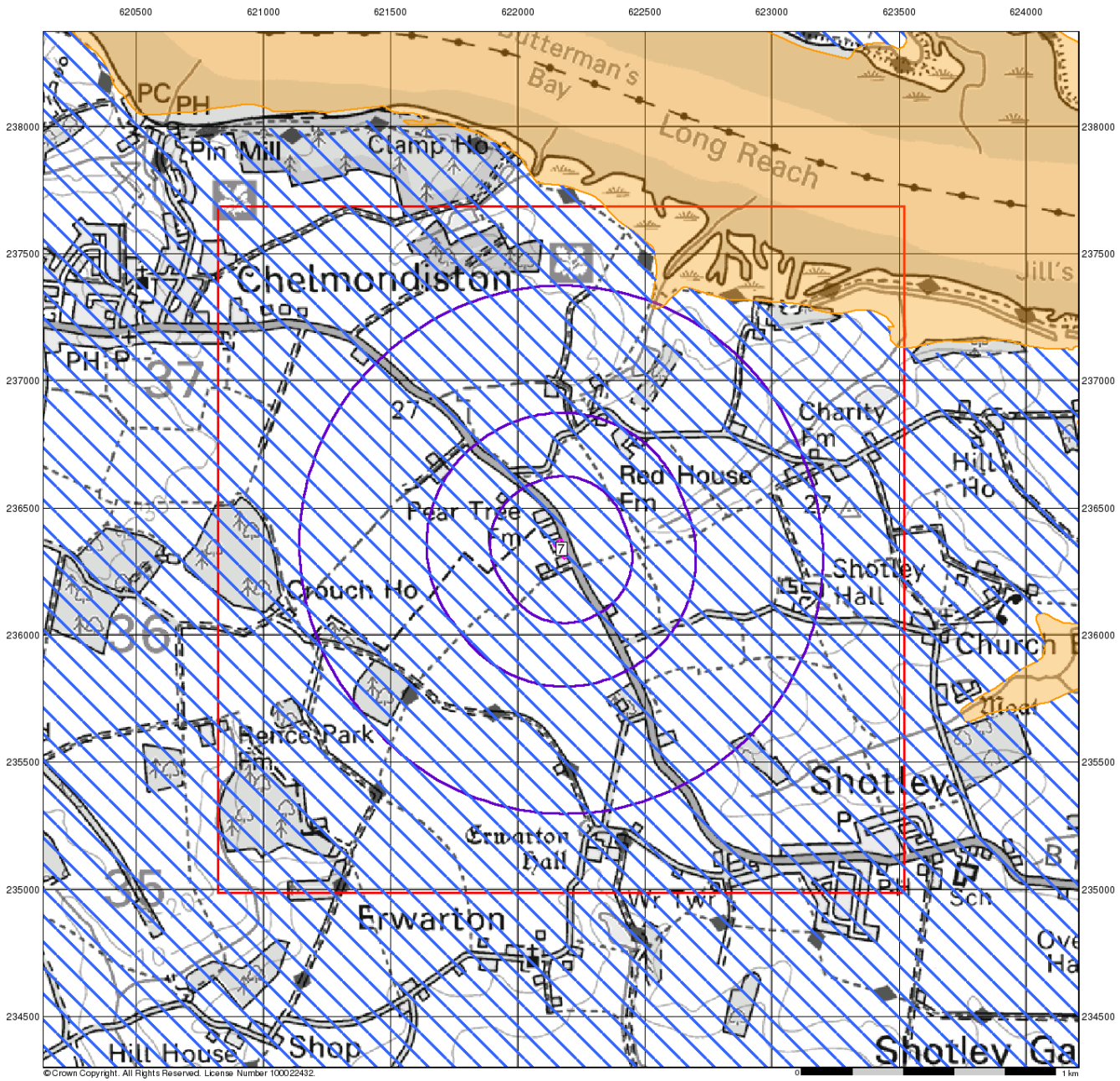
| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

Landmark INFORMATION GROUP

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




# Envirocheck®

LANDMARK INFORMATION GROUP®

## Ground Stability Data (1:50,000)

### General

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

### Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

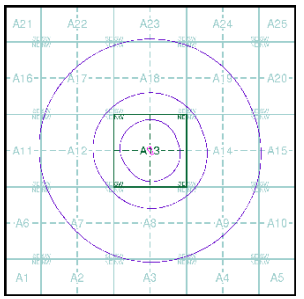
### Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

### Brine Pumping and Salt Mining

| | Point | Polygon |
|---|---|---|
| Brine Pumping Related Feature | ▲ | ▨ |
| Salt Mining Related Feature | ▲ | ▨ |

### Mining and Ground Stability - Slice A

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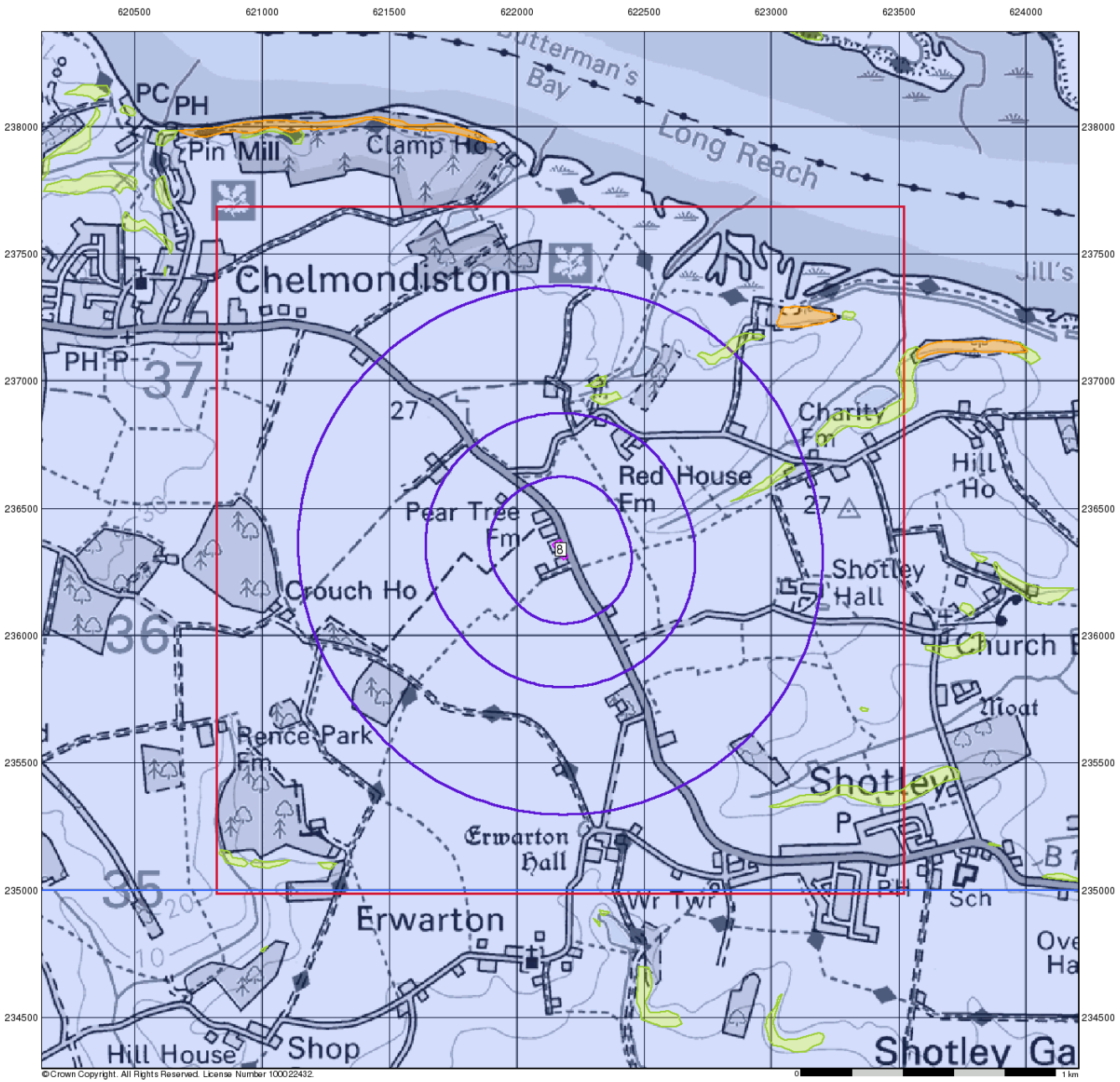



# Envirocheck®

LANDMARK INFORMATION GROUP®

## Ground Stability Data (1:50,000)

### General

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

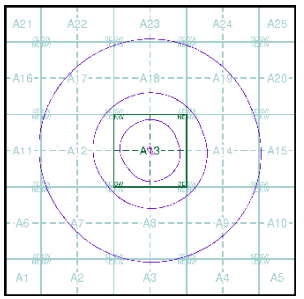
### Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

### Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

### Mining and Ground Stability - Slice A

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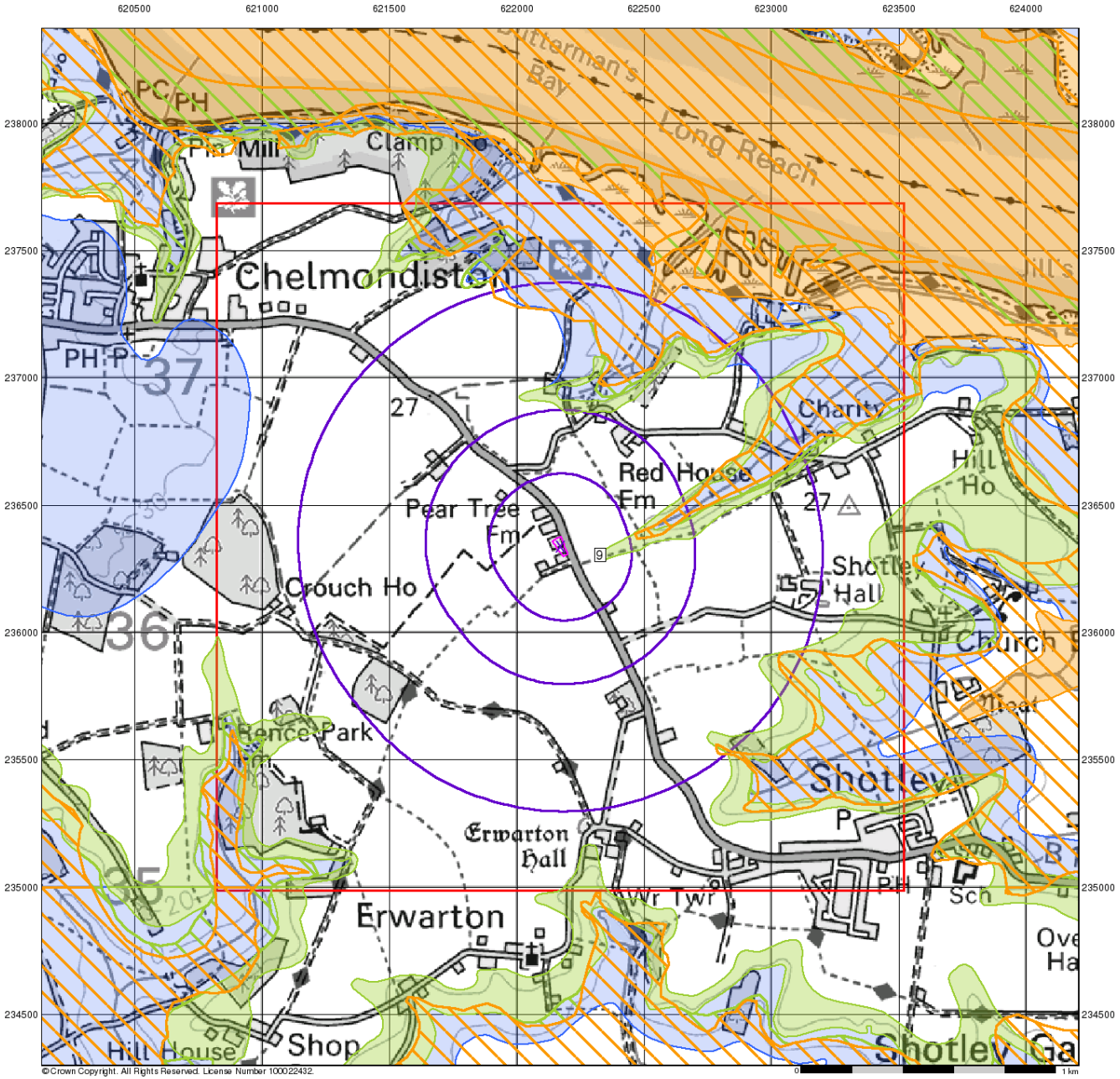


# Envirocheck®

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## Ground Stability Data (1:50,000)

### General

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

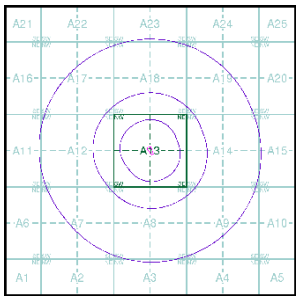
### Potential for Running Sand Ground Stability Hazards

High | Low
Moderate | Very Low

### Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low
Moderate | Very Low

### Mining and Ground Stability - Slice A

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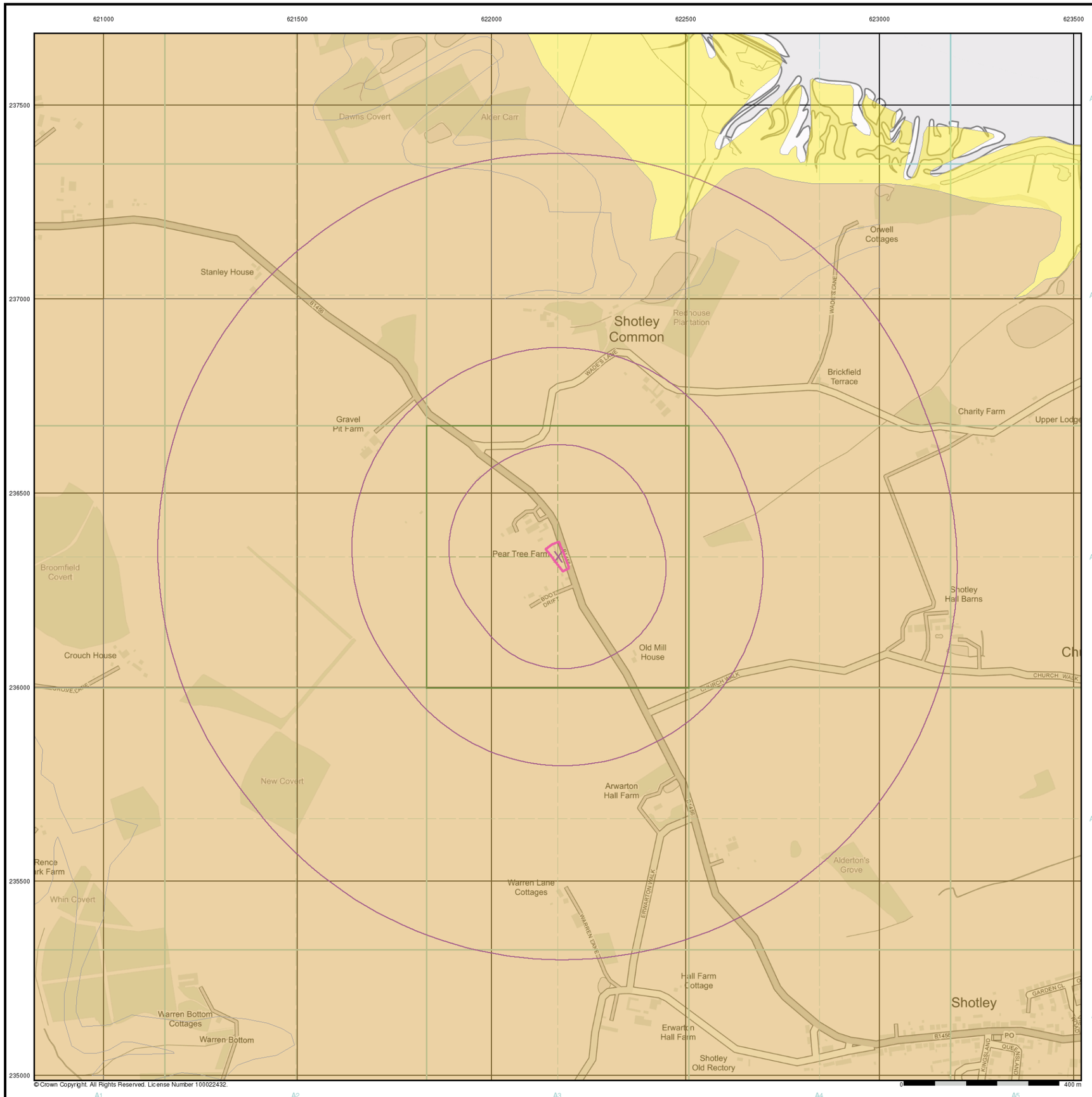




# Envirocheck®

LANDMARK INFORMATION GROUP®

## General

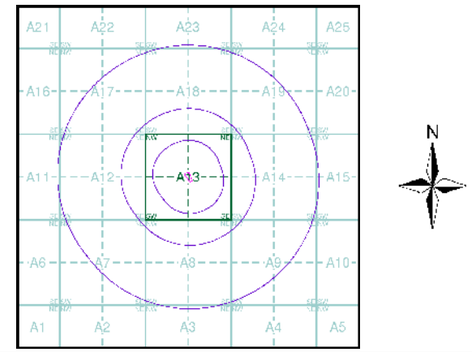
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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

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|---|---|
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| Customer Ref: | 6020 |
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| Slice: | A |
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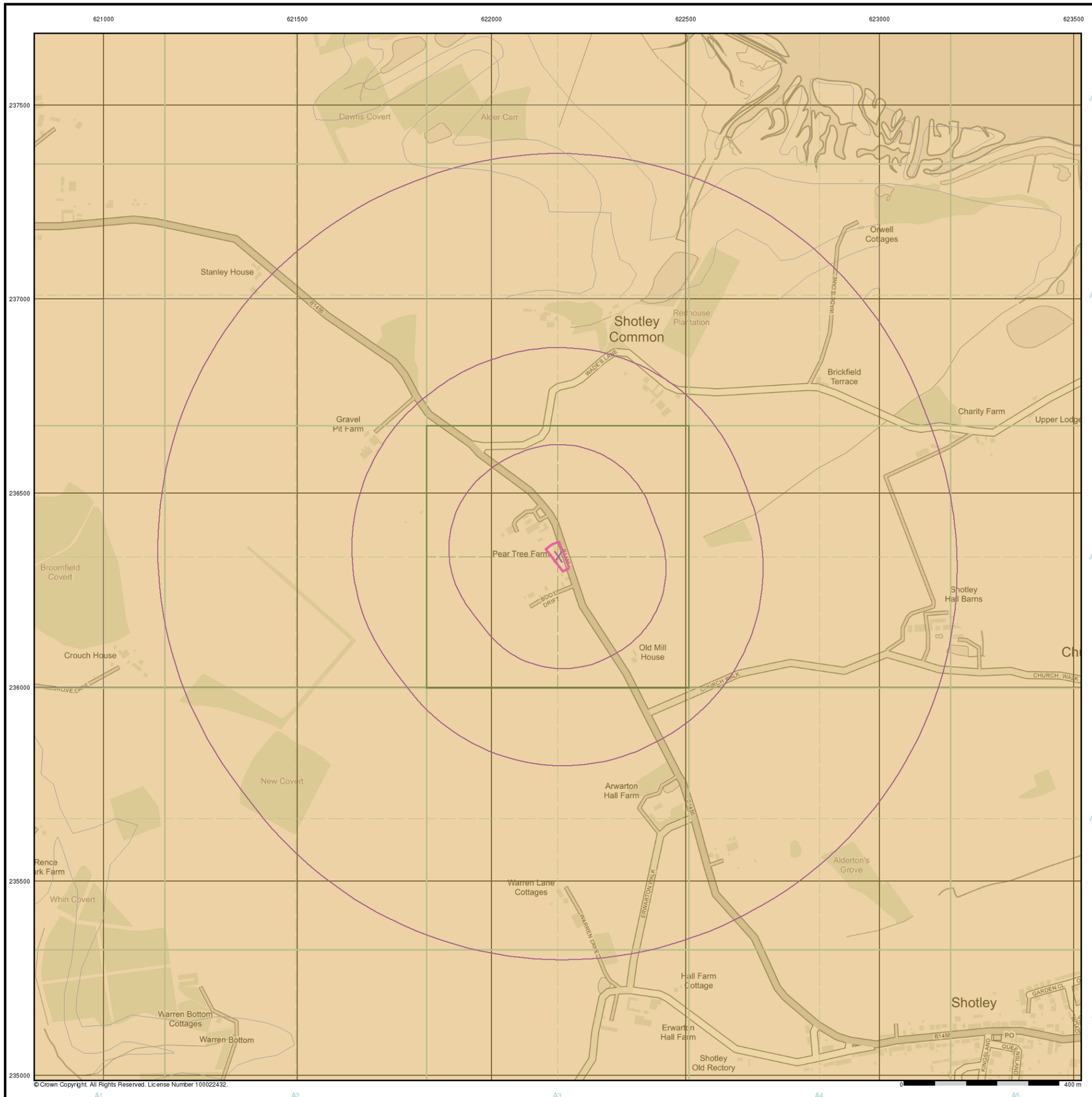



Envirocheck®

LANDMARK INFORMATION GROUP®

## General

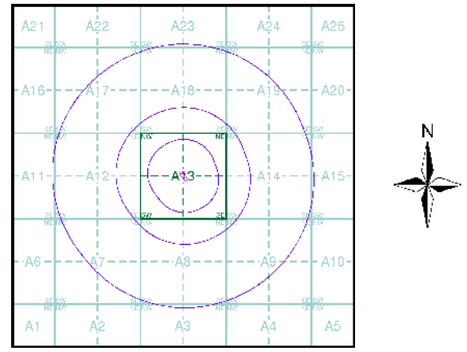
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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

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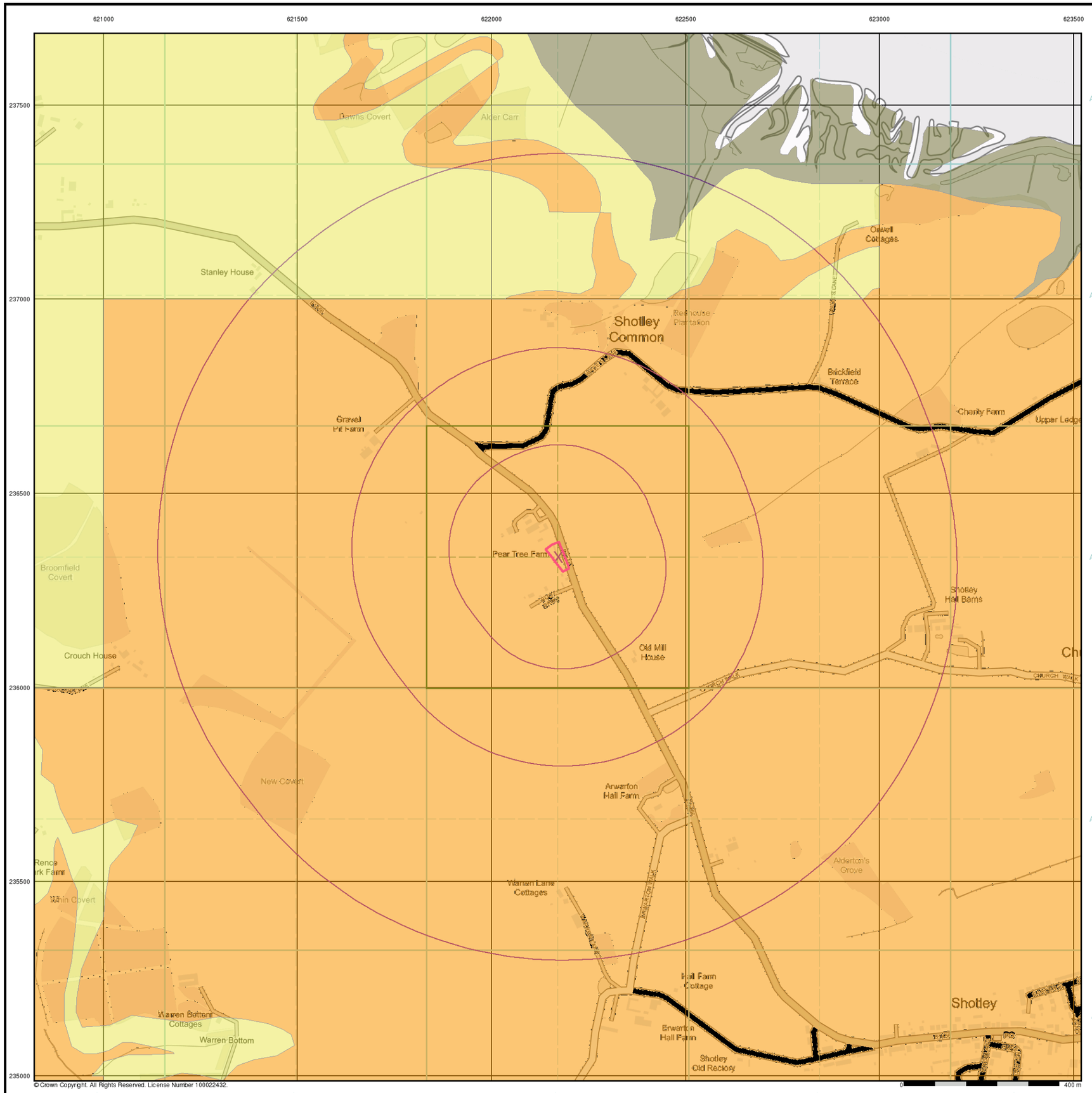




# Envirocheck®

LANDMARK INFORMATION GROUP®

## General

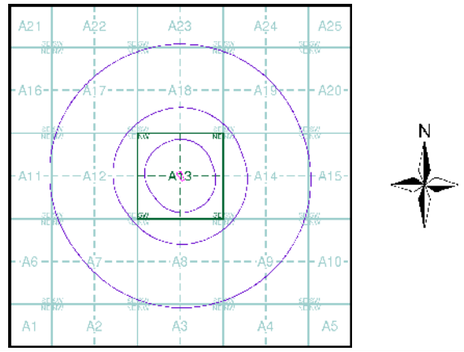
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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

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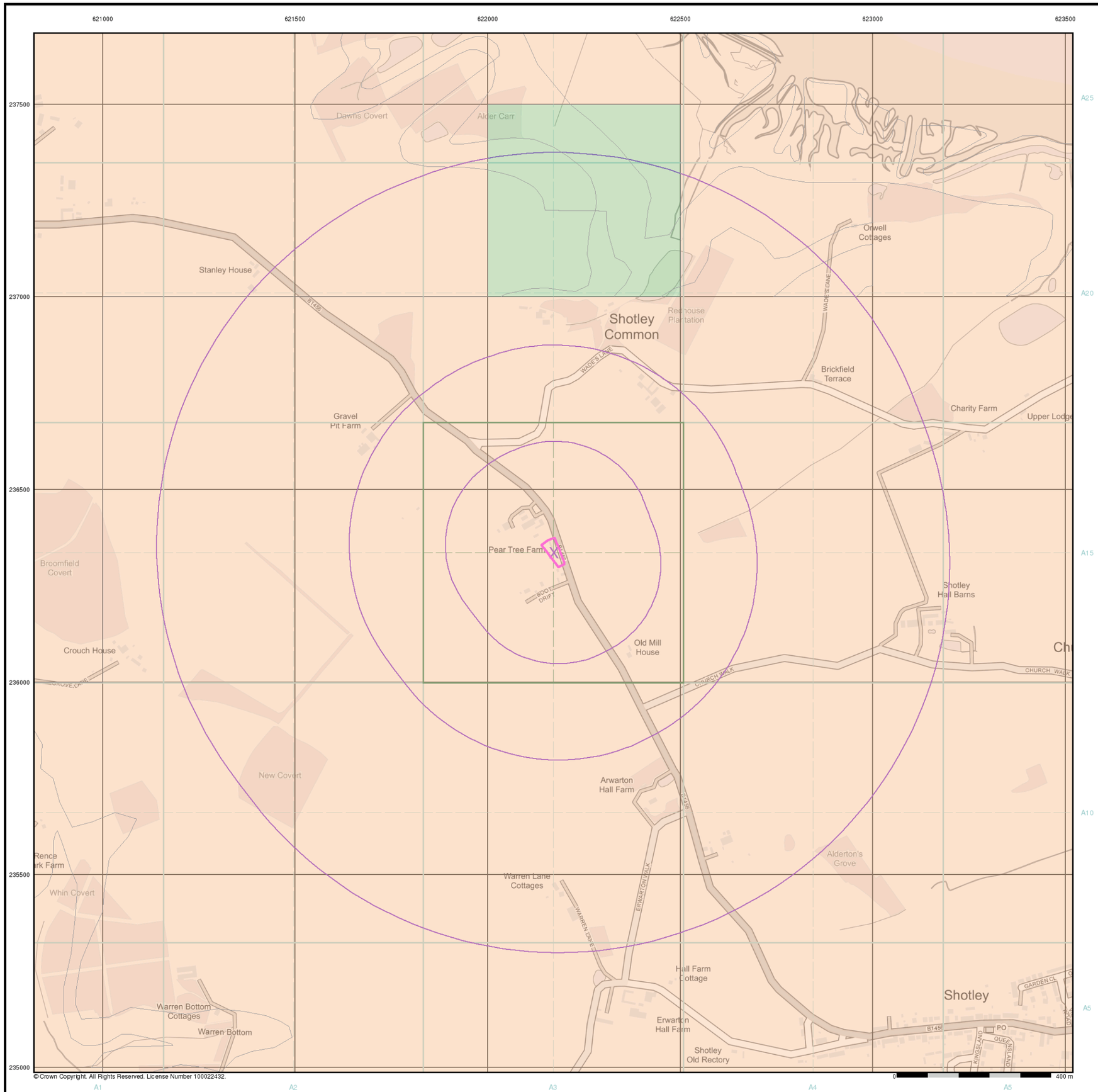





# Envirocheck®

LANDMARK INFORMATION GROUP®

## General

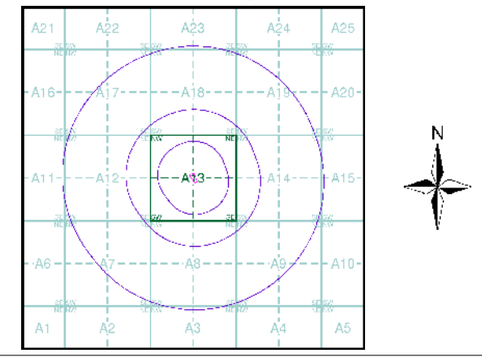
Specified Site  Specified Buffer(s)  X Bearing Reference Point

## 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

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| Customer Ref: | 6020 |
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| Slice: | A |
| Site Area (Ha): | 0.22 |
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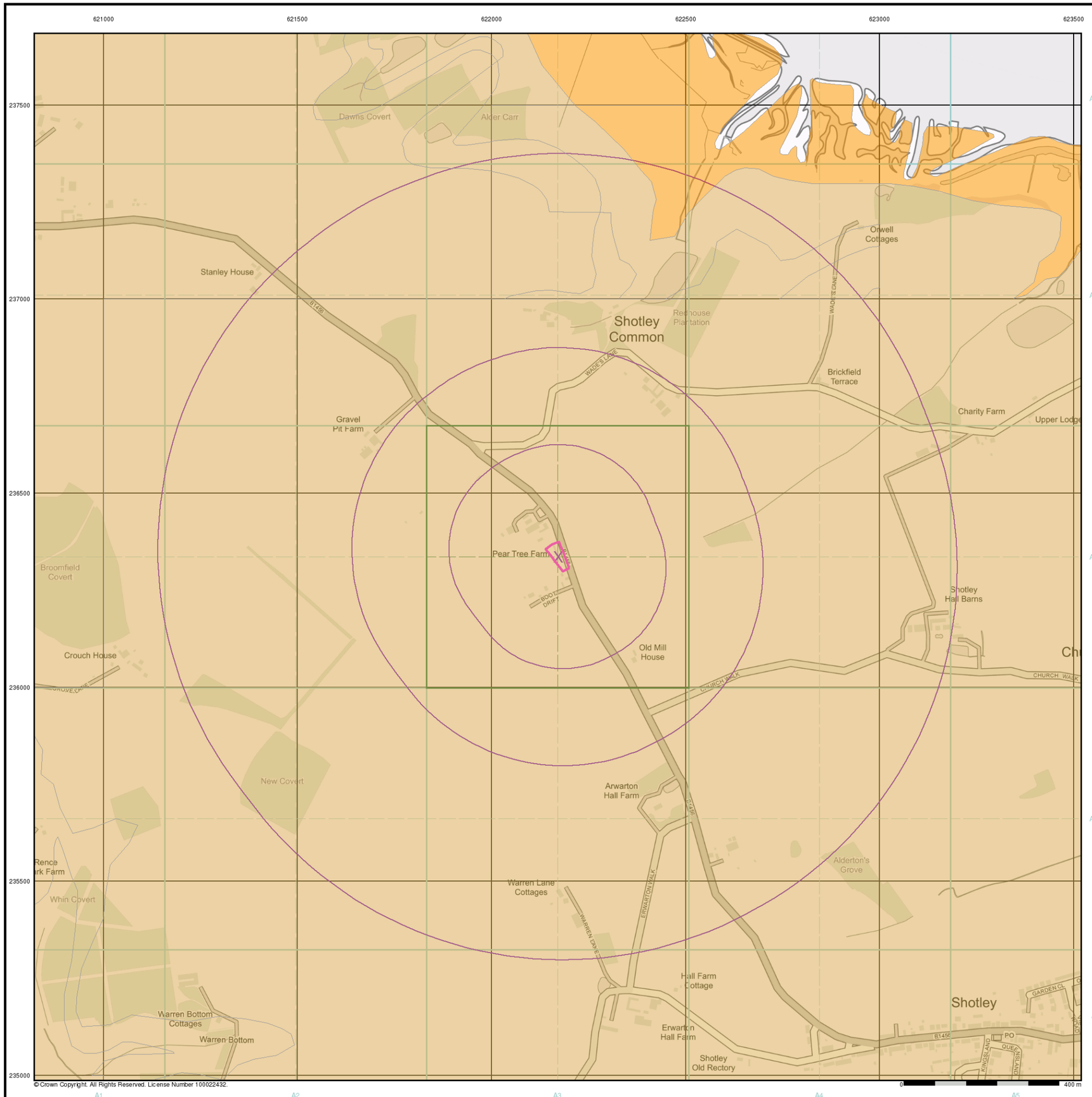



# Envirocheck®

LANDMARK INFORMATION GROUP®

## General

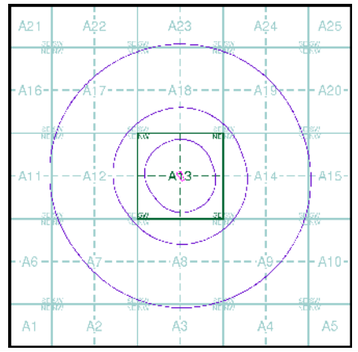
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## 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: | 287242165_1_1 |
| Customer Ref: | 6020 |
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| Slice: | A |
| Site Area (Ha): | 0.22 |
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Farmside, Shotley, IPSWICH, IP9 1EY


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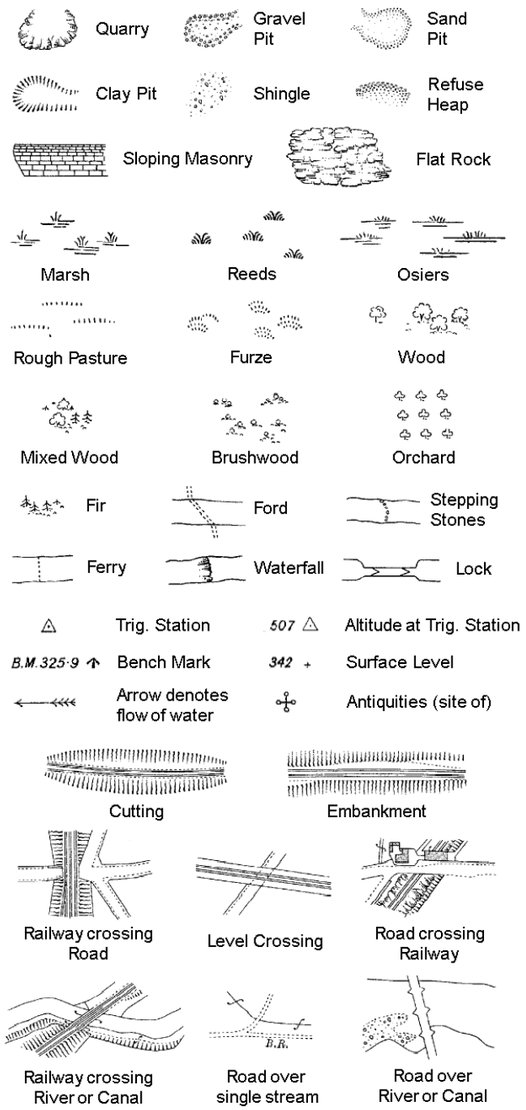
Web: www.envirocheck.co.uk

# Appendix 4 – Envirocheck Historical Maps

# Historical Mapping Legends

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




County Boundary (Geographical)

County & Civil Parish Boundary

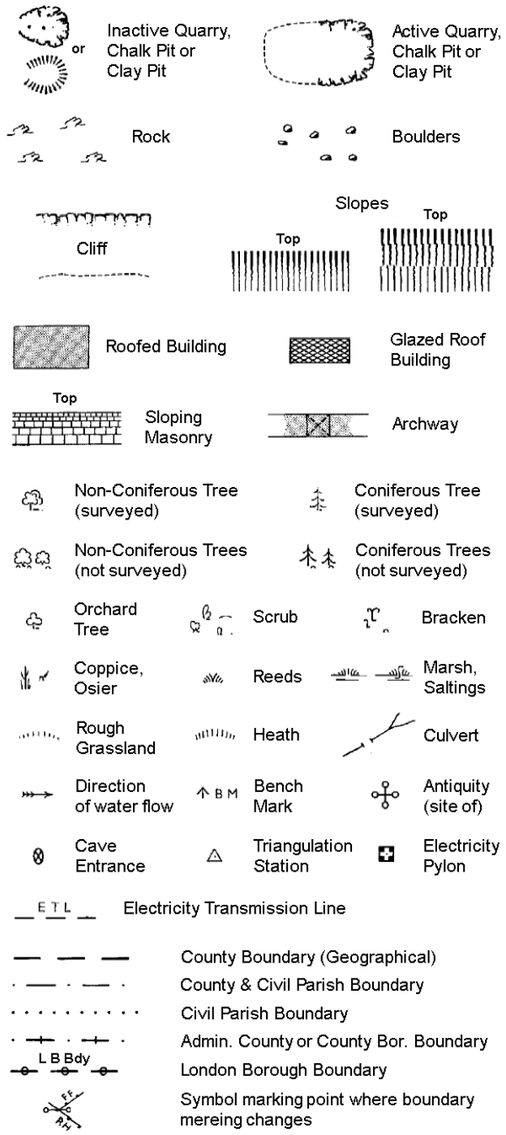
Administrative County & Civil Parish Boundary

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

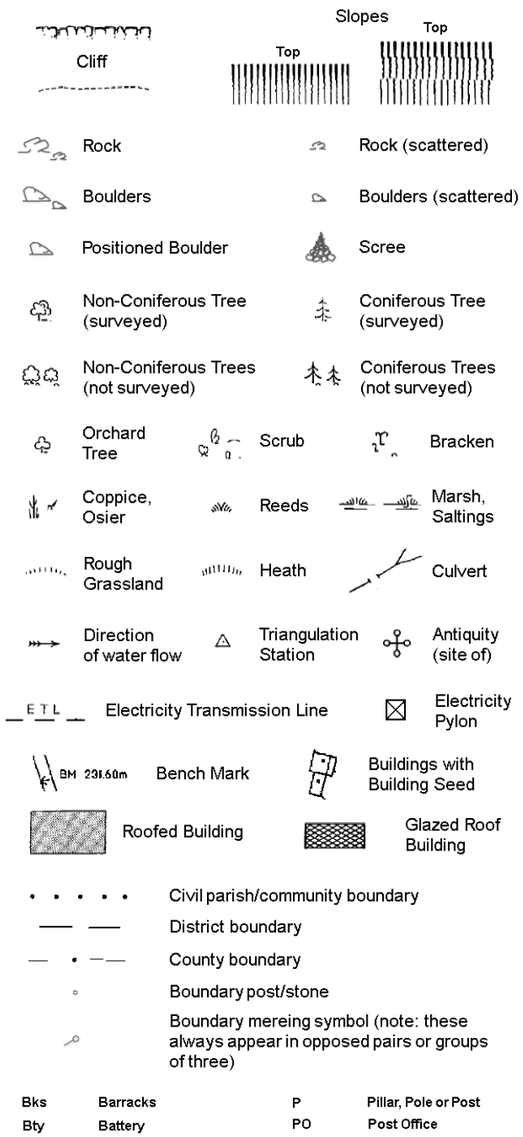
Admin. County or County Bor. Boundary

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 |

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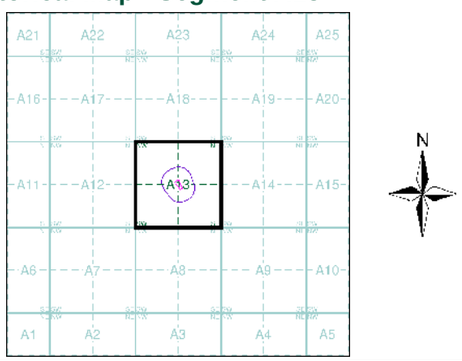
## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Suffolk | 1:2,500 | 1881 | 2 |
| Suffolk | 1:2,500 | 1904 | 3 |
| Suffolk | 1:2,500 | 1926 | 4 |
| Ordnance Survey Plan | 1:2,500 | 1967 - 1970 | 5 |
| Additional SIMs | 1:2,500 | 1988 - 1989 | 6 |
| Large-Scale National Grid Data | 1:2,500 | 1994 | 7 |
| Historical Aerial Photography | 1:2,500 | 1999 | 8 |

## Historical Map - Segment A13

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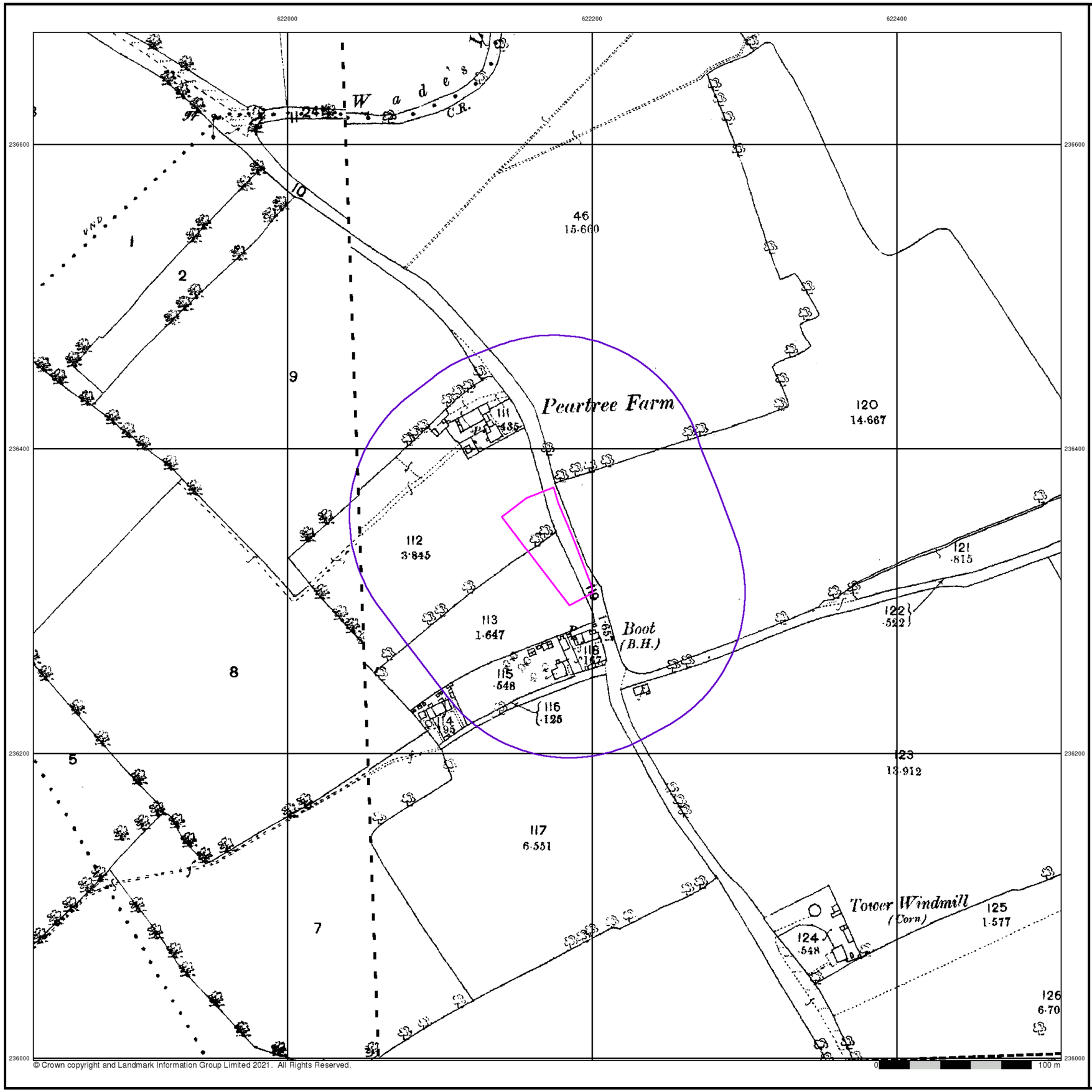


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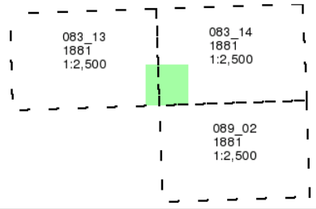
## Suffolk

## Published 1881

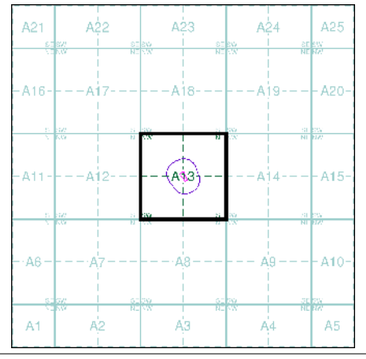
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13

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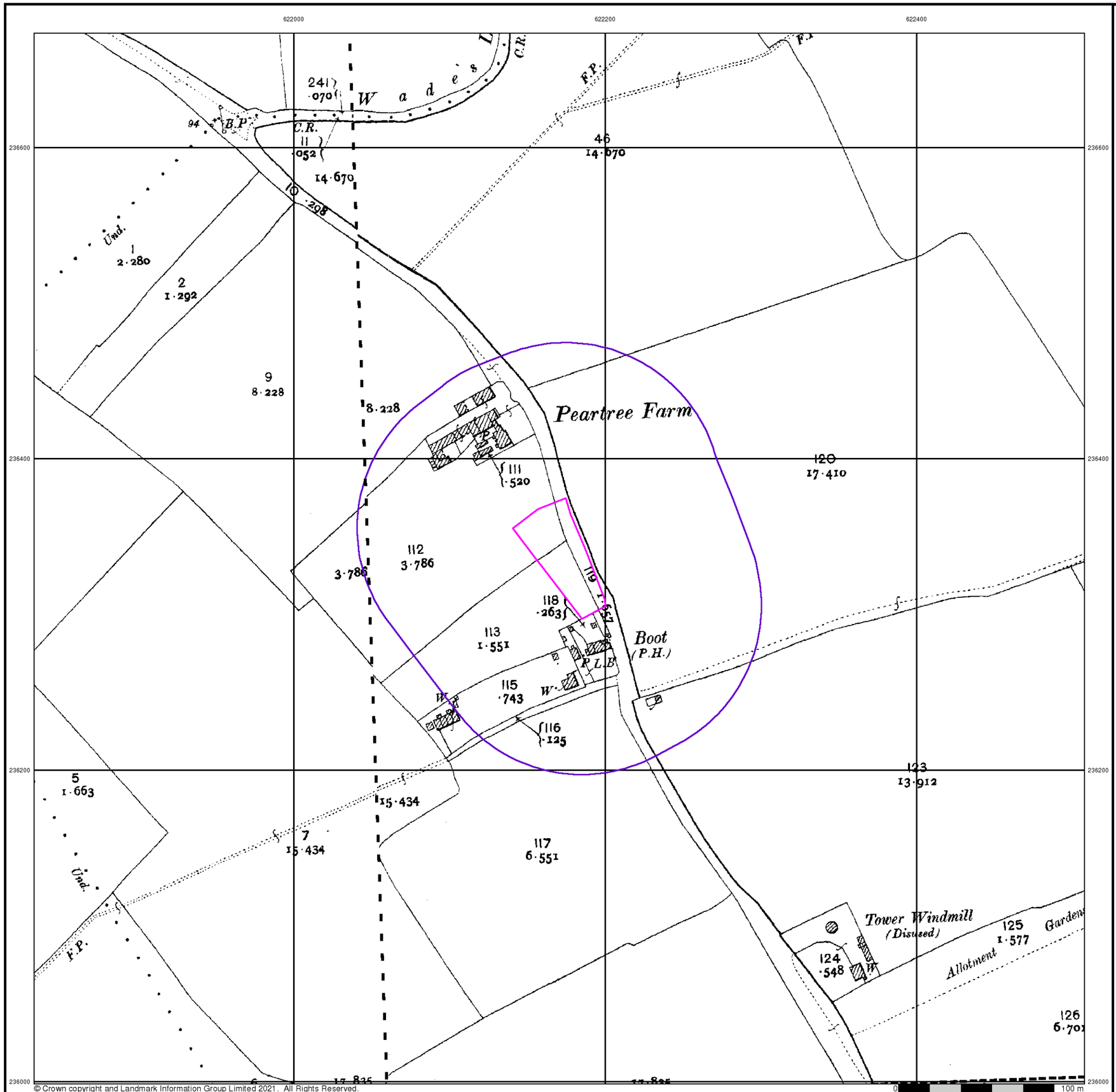



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## Suffolk

## Published 1904

## Source map scale - 1:2,500

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

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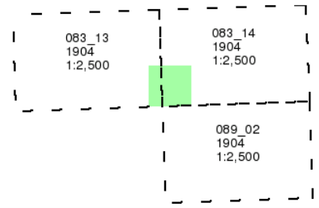
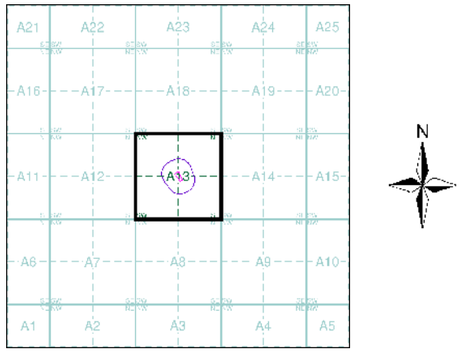



## Historical Map - Segment A13

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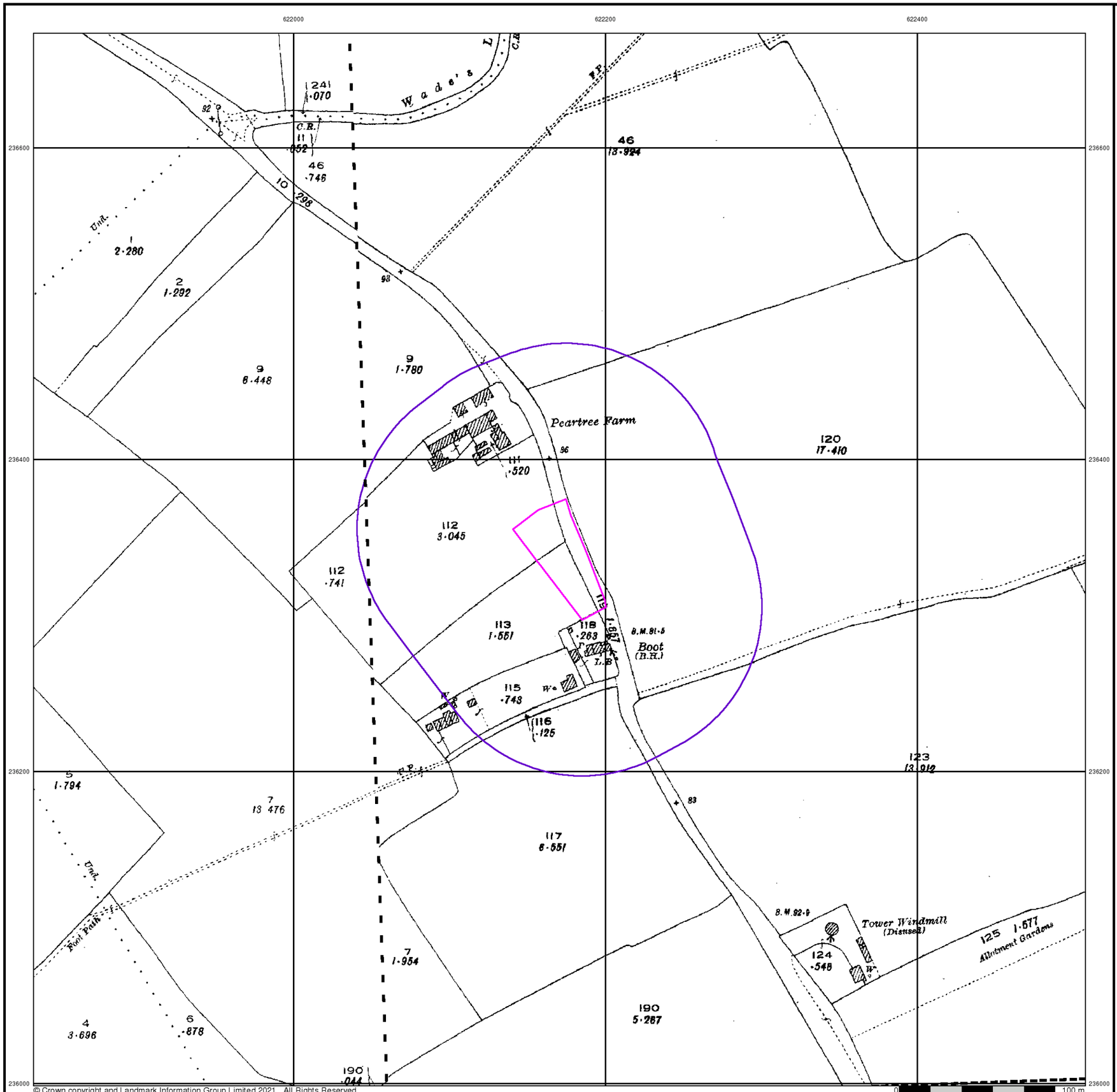


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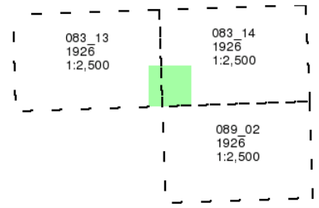
## Suffolk

## Published 1926

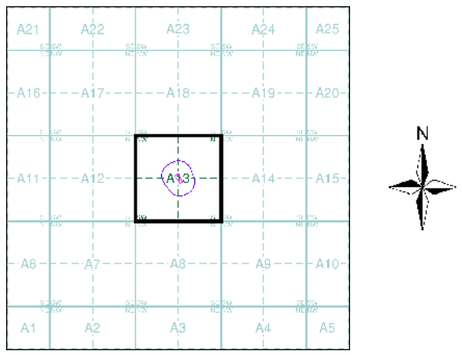
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
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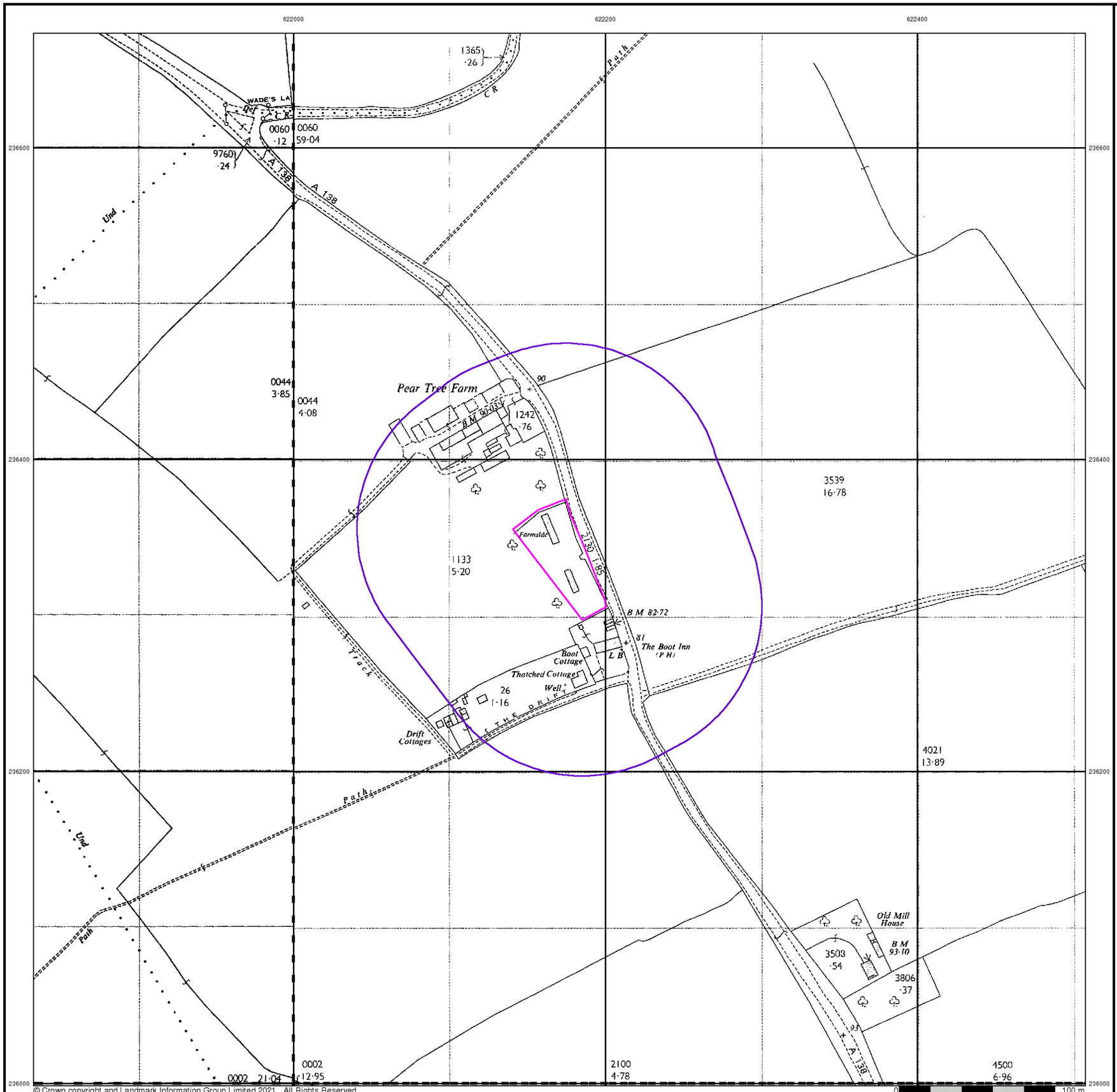
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 100 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY


Landmark INFORMATION GROUP

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





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## Ordnance Survey Plan

**Published 1967 - 1970**

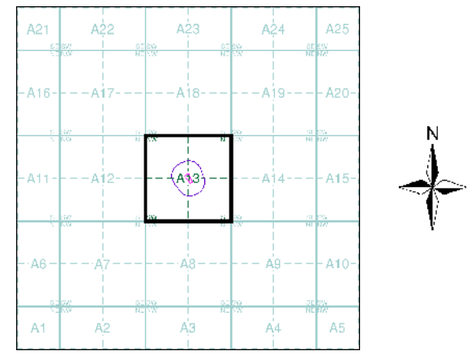
**Source map scale - 1:2,500**

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)

| | |
|---|---|
| TM2136 1967 1:2,500 | TM2236 1968 1:2,500 |
| TM2135 1970 1:2,500 | TM2235 1970 1:2,500 |

## Historical Map - Segment A13




## Order Details

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| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
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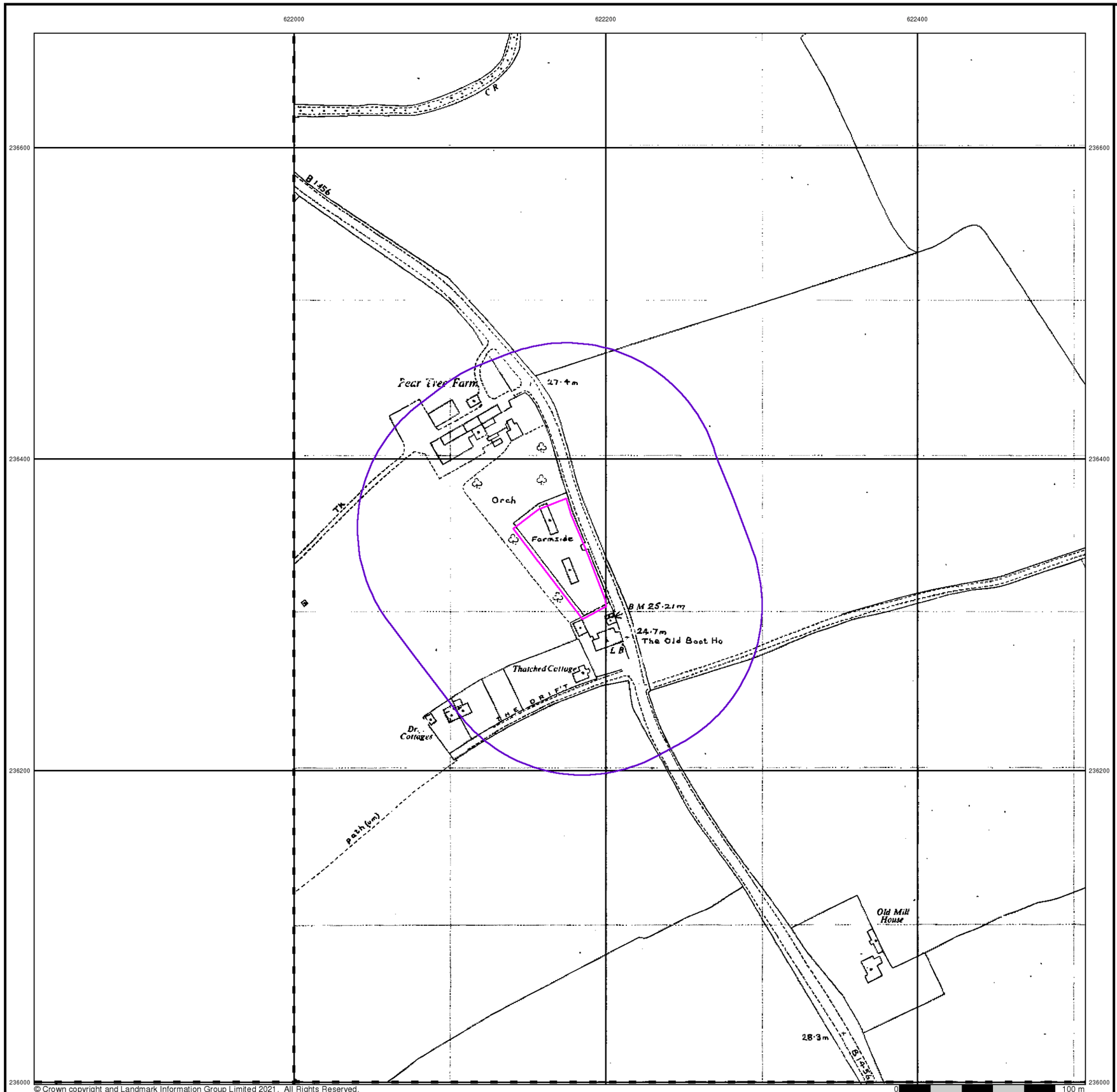




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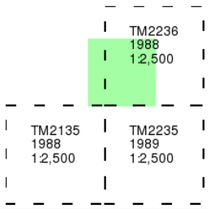
## Additional SIMs

**Published 1988 - 1989**

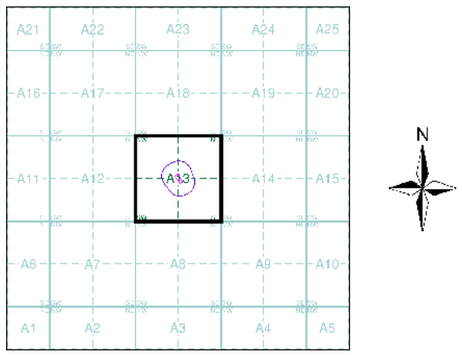
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

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| Order Number: | 287242165_1_1 |
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| Slice: | A |
| Site Area (Ha): | 0.22 |
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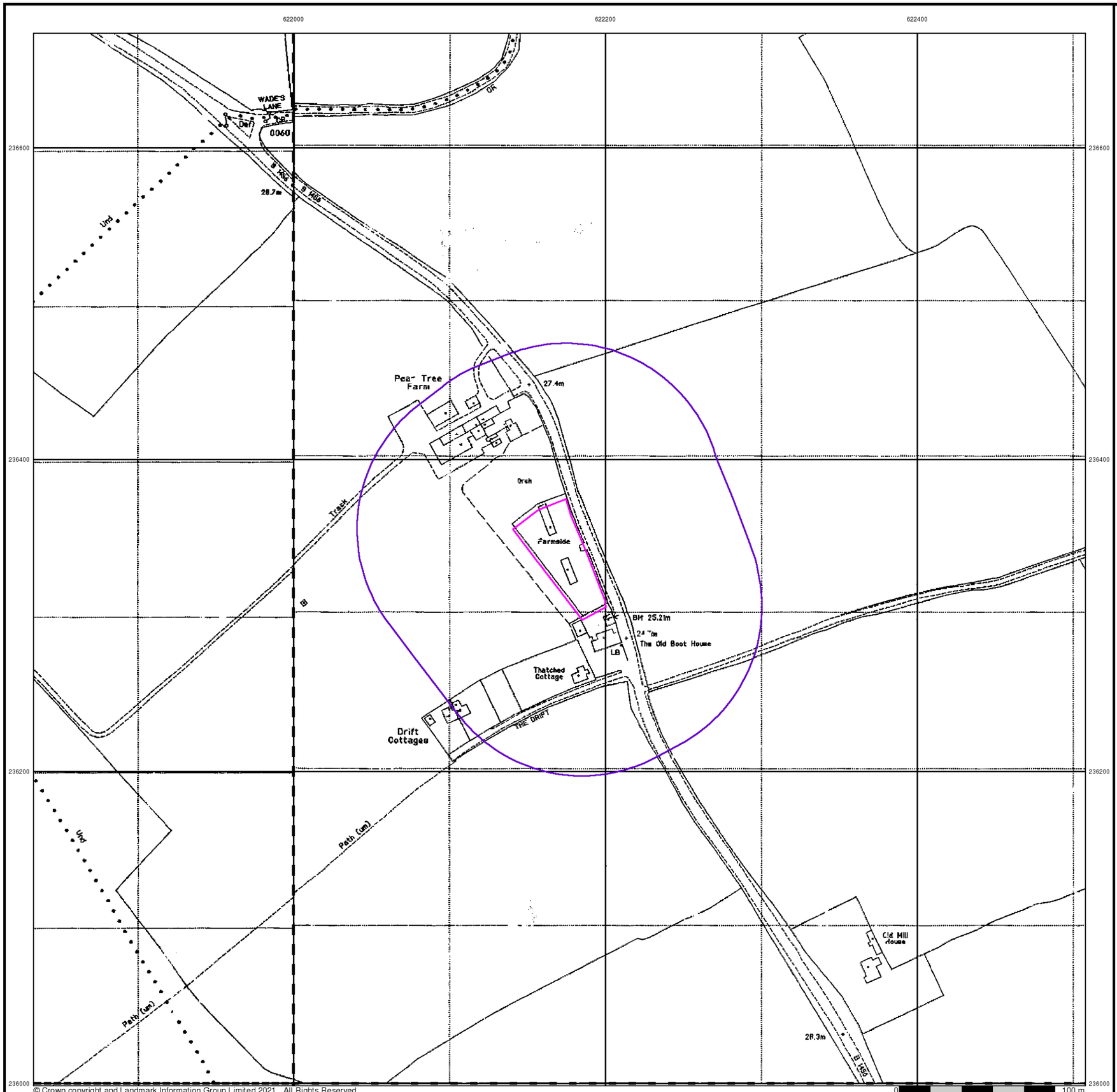




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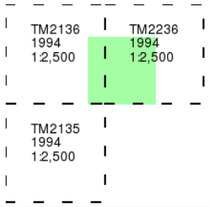
## Large-Scale National Grid Data

**Published 1994**

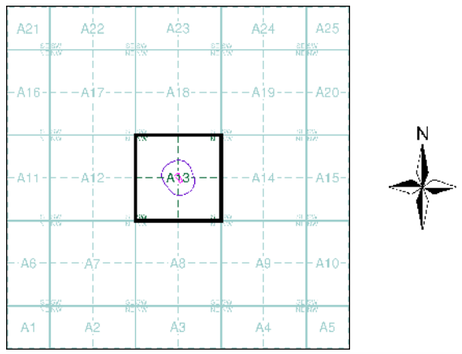
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13

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| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
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| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 100 |

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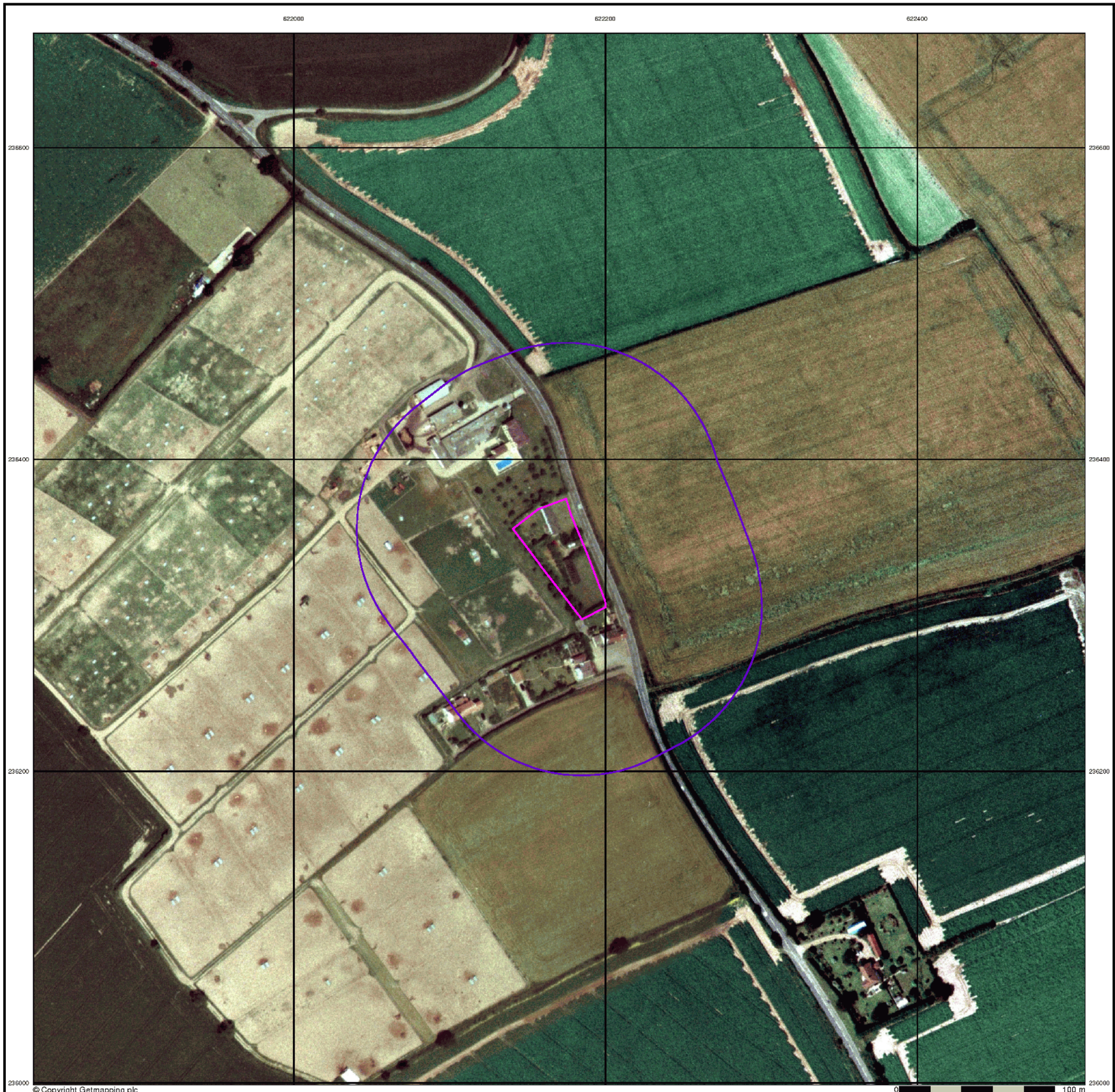


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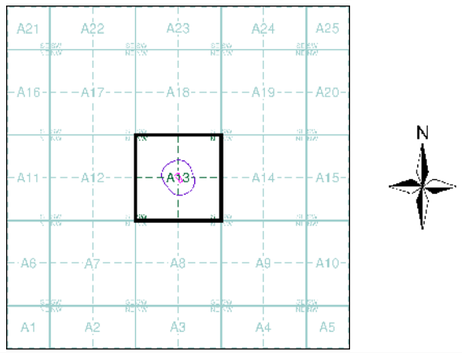
## Historical Aerial Photography

### Published 1999

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

## Historical Aerial Photography - Segment A13

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## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

# 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
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
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

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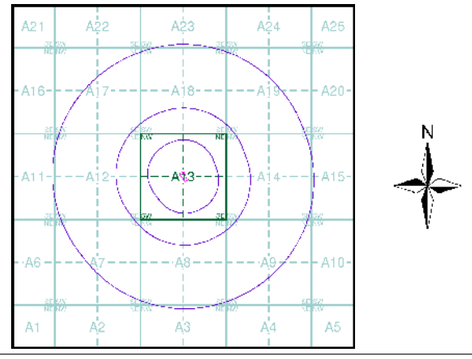
## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Essex | 1:10,560 | 1881 | 3 |
| Suffolk | 1:10,560 | 1886 - 1887 | 4 |
| Essex | 1:10,560 | 1899 | 5 |
| Suffolk | 1:10,560 | 1904 | 6 |
| Essex | 1:10,560 | 1905 | 7 |
| Essex | 1:10,560 | 1925 | 8 |
| Suffolk | 1:10,560 | 1928 | 9 |
| Suffolk | 1:10,560 | 1928 | 10 |
| Harwich | 1:10,000 | 1957 | 11 |
| Ordnance Survey Plan | 1:10,000 | 1958 | 12 |
| Ordnance Survey Plan | 1:10,000 | 1971 - 1977 | 13 |
| Ordnance Survey Plan | 1:10,000 | 1984 | 14 |
| Ordnance Survey Plan | 1:10,000 | 1990 | 15 |
| 10K Raster Mapping | 1:10,000 | 1999 - 2000 | 16 |
| 10K Raster Mapping | 1:10,000 | 2006 | 17 |
| VectorMap Local | 1:10,000 | 2021 | 18 |

## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY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# Russian Military Mapping Legends

## 1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

**243,8** Values for prominent elevations

**186.0** Numbers for spot elevations, depth soundings, contour lines, etc.

**0,2** Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

### Russian Alphabet (For reference and phonetic interpretation of map text)

| | | | |
|---|---|---|---|
| А а (A) | З з (Z) | П п (P) | Ч ч (CH) |
| Б б (B) | И и (I) | Р р (R) | Ш ш (SH) |
| В в (V) | Й й (Y) | С с (S) | Щ щ (SHCH) |
| Г г (G) | К к (K) | Т т (T) | ъ (–) |
| Д д (D) | Л л (L) | У у (U) | ы (Y) |
| Е е (E) | М м (M) | Ф ф (F) | ь (') |
| Ё ё (YO) | Н н (N) | Х х (KH) | Э э (E) |
| Ж ж (ZH) | О о (O) | Ц ц (TS) | Ю ю (YU or IU) |
| | | | Я я (YA or IA) |

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

## Key to Numbers on Mapping

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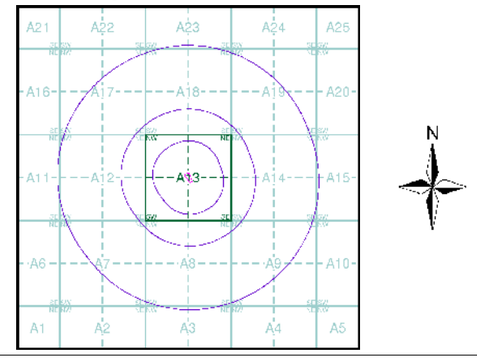
## Historical Mapping & Photography included:



## Russian Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

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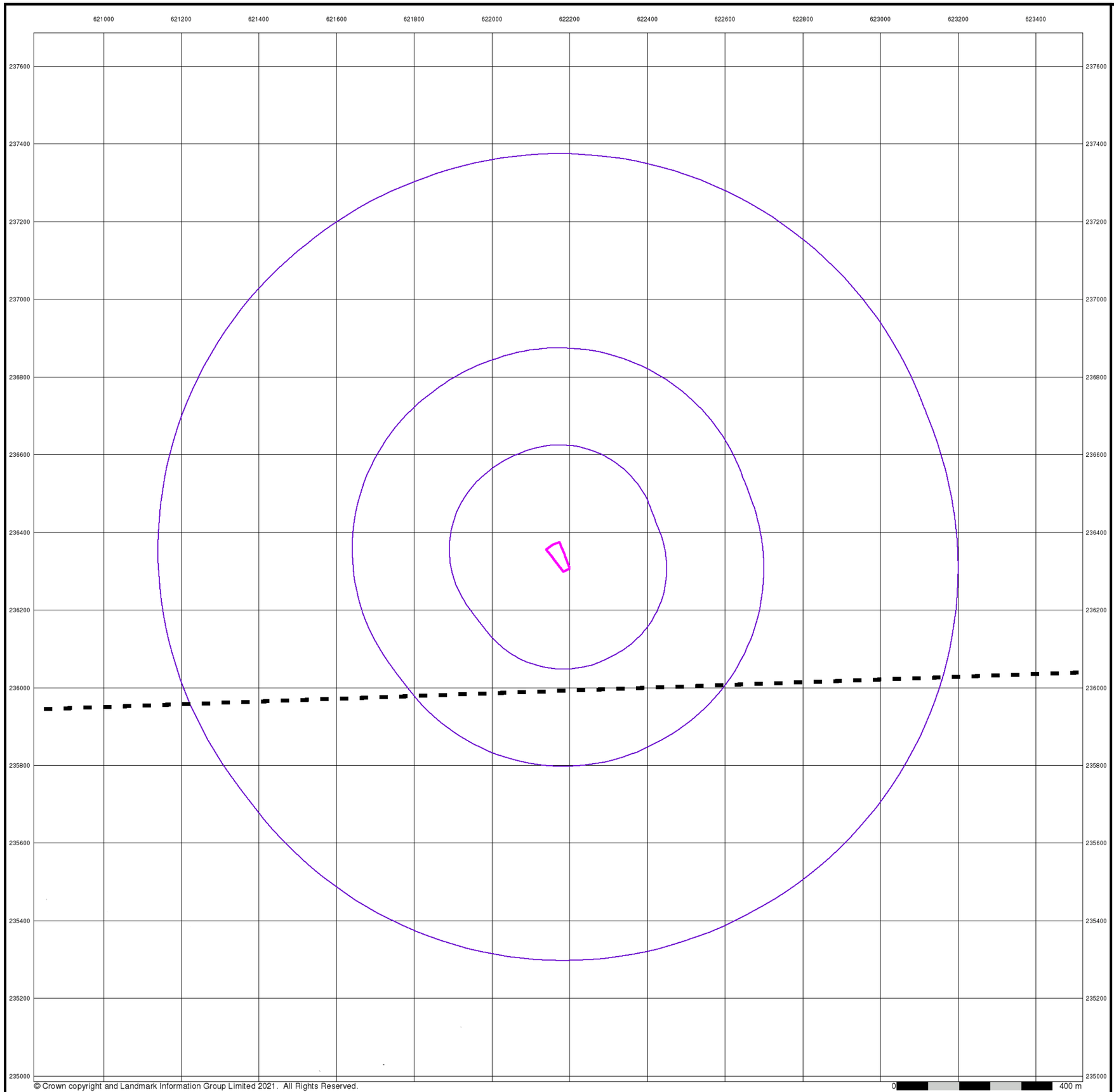



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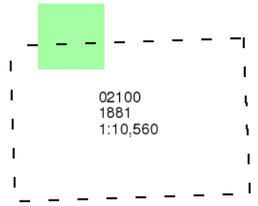
## Essex

## Published 1881

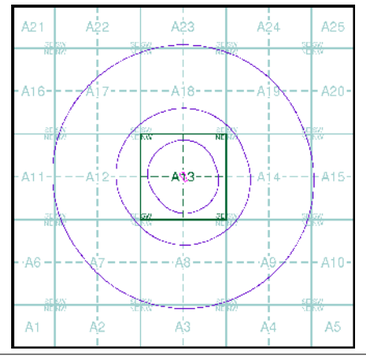
## Source map scale - 1:10,560

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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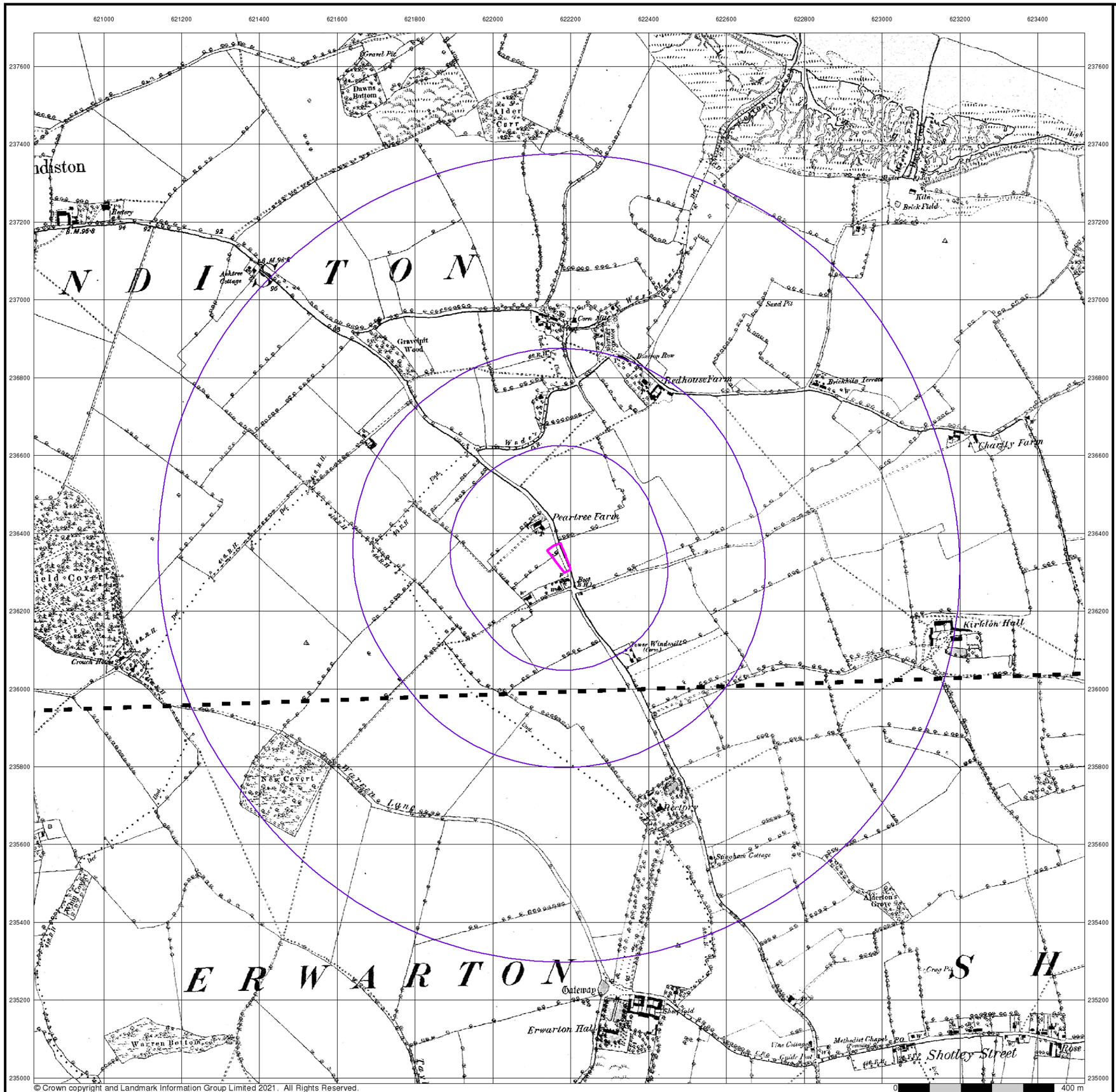



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## Suffolk

## Published 1886 - 1887

## Source map scale - 1:10,560

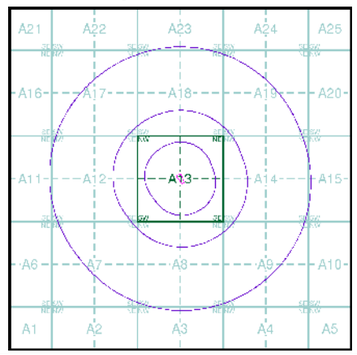
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

083SW
1887
1:10,560

089NW
1886
1:10,560

## Historical Map - Slice A

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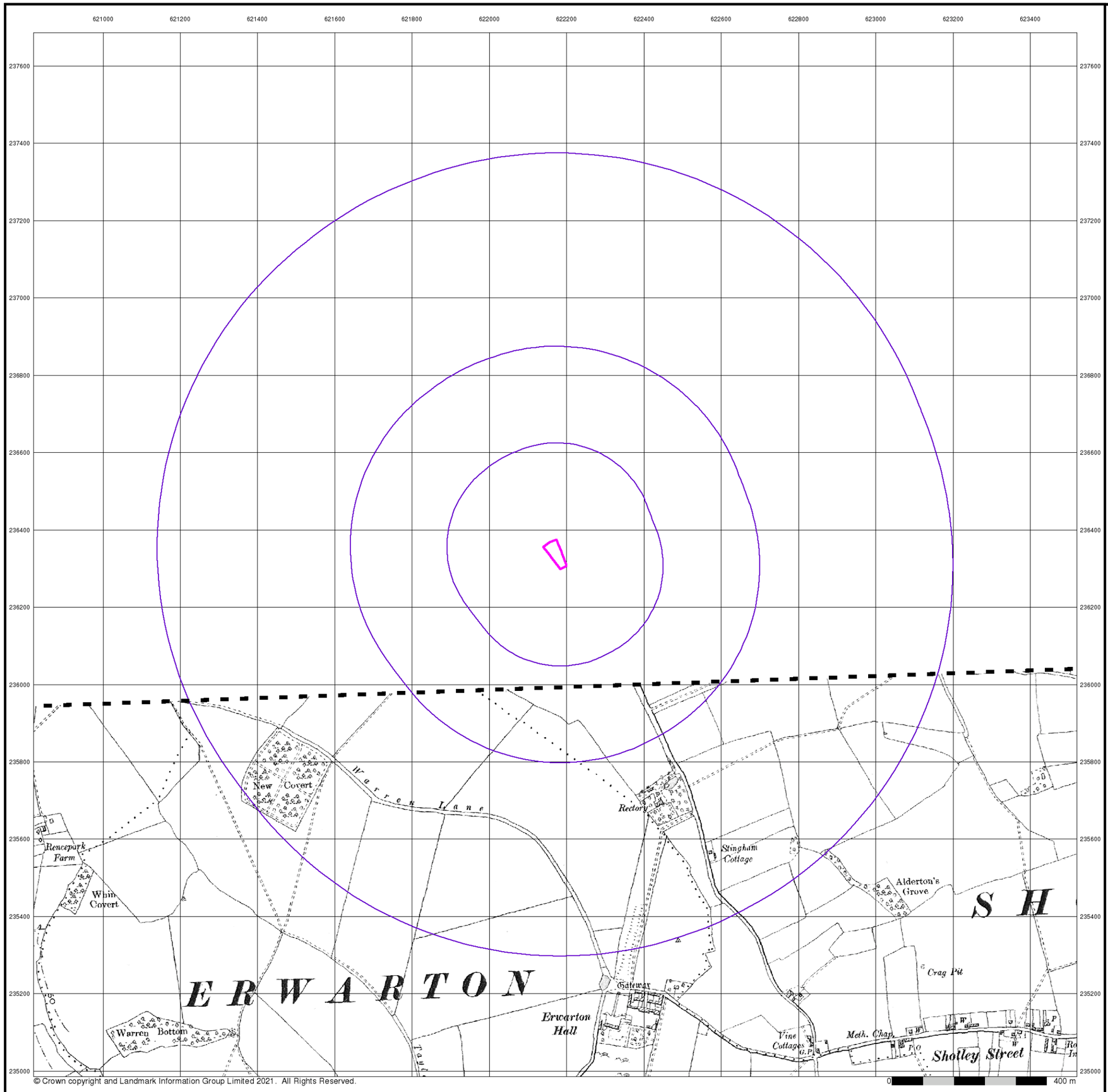



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## Essex

## Published 1899

## Source map scale - 1:10,560

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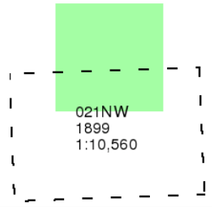
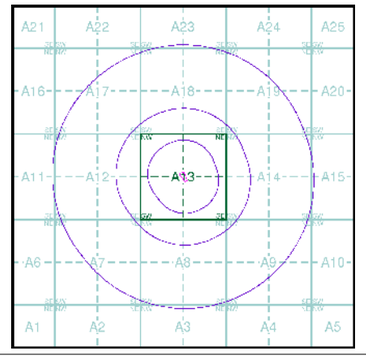
## Map Name(s) and Date(s)




## Historical Map - Slice A




## Order Details

| | |
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| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

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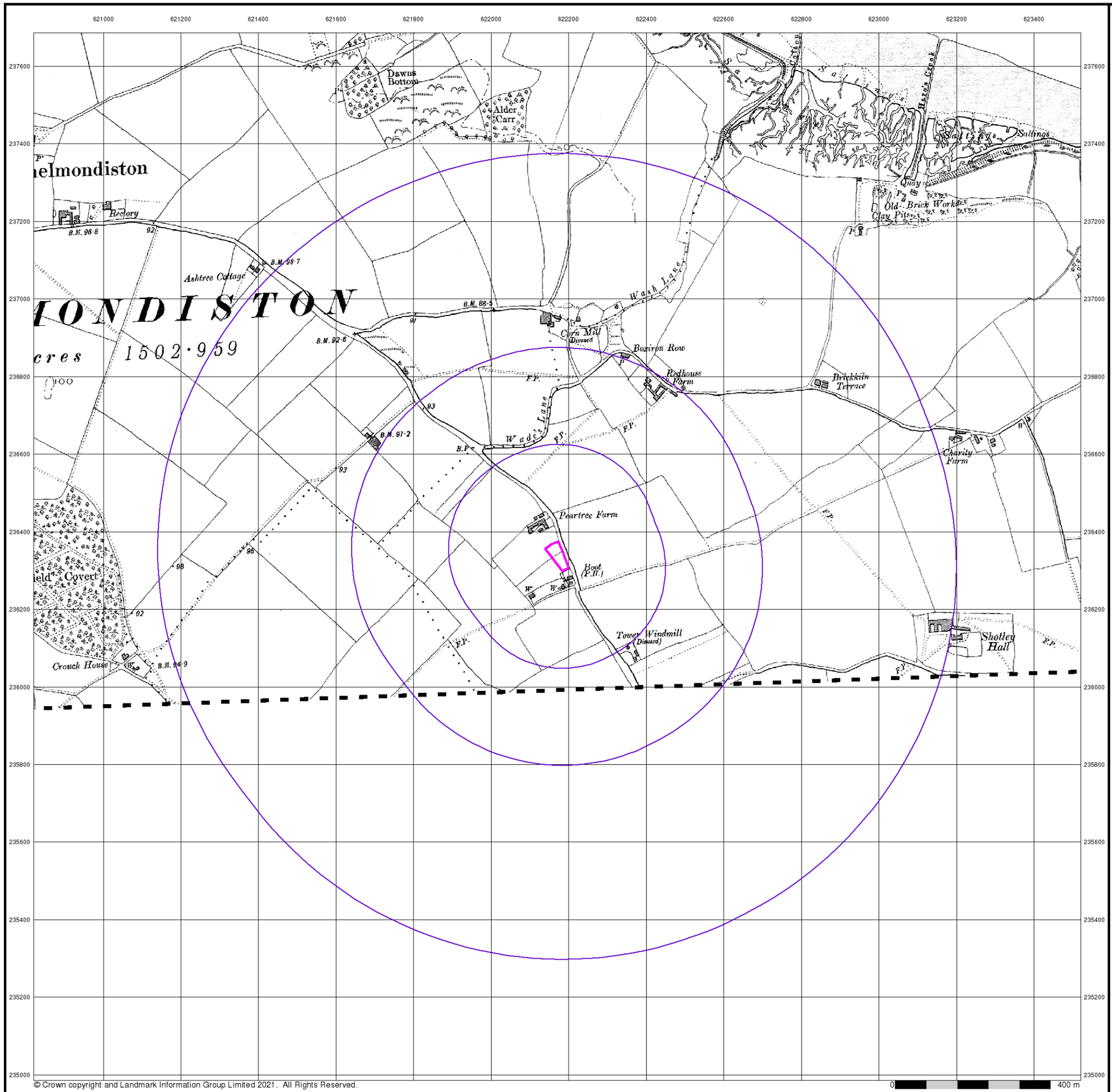
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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## Suffolk

## Published 1904

## 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.

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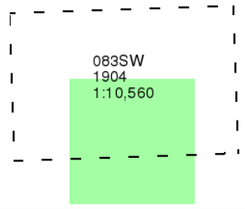
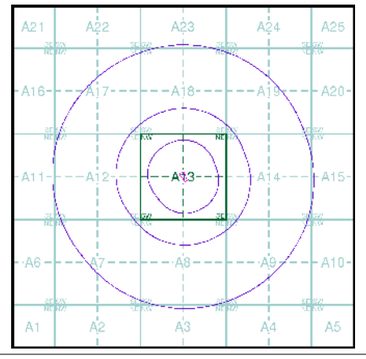



## Historical Map - Slice A

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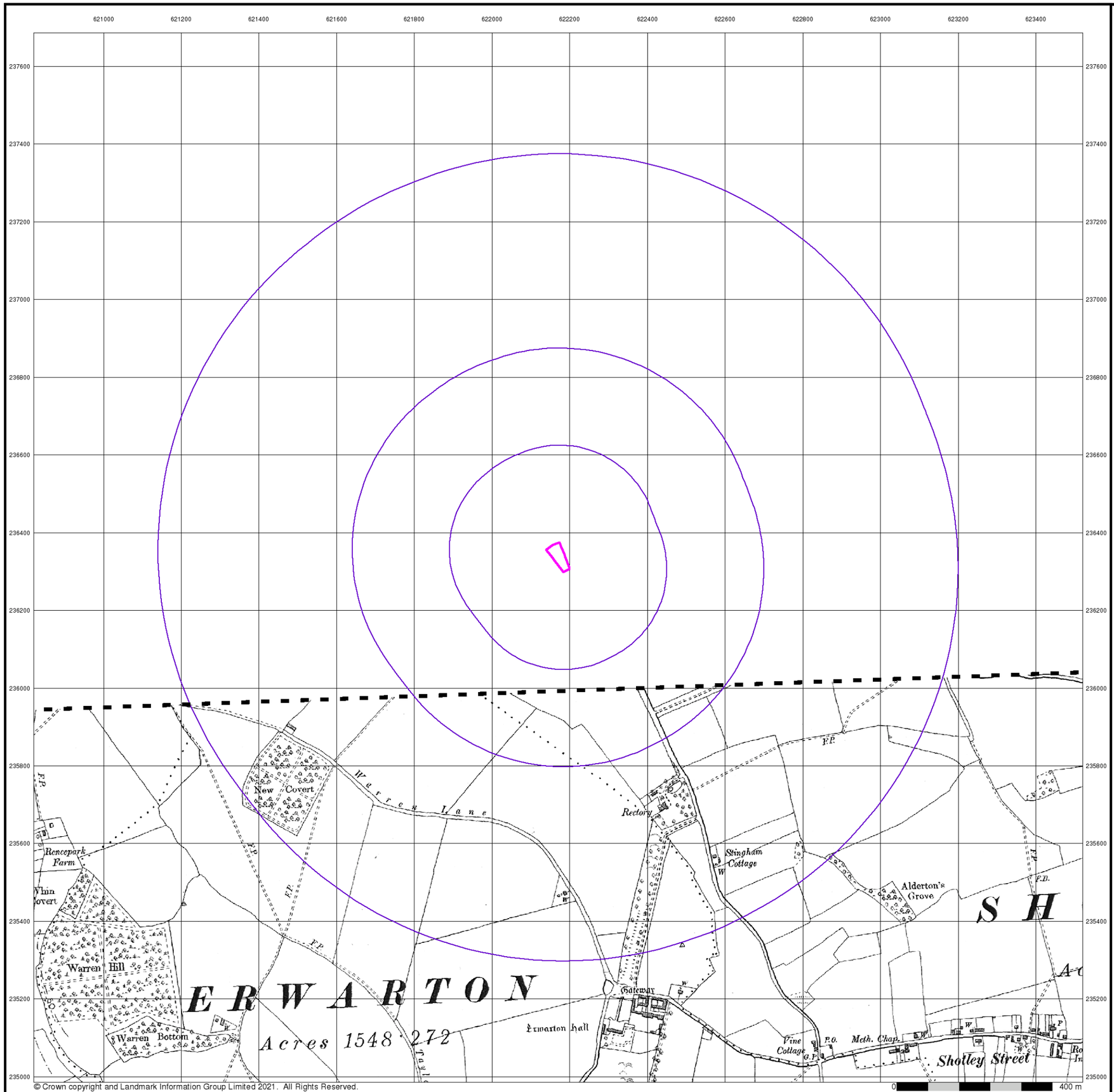



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## Essex

## Published 1905

## 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.

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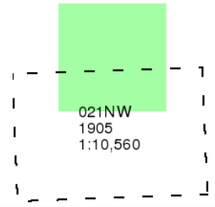
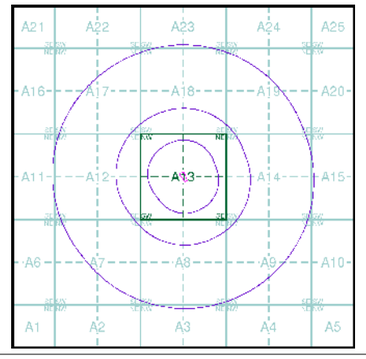



## Historical Map - Slice A

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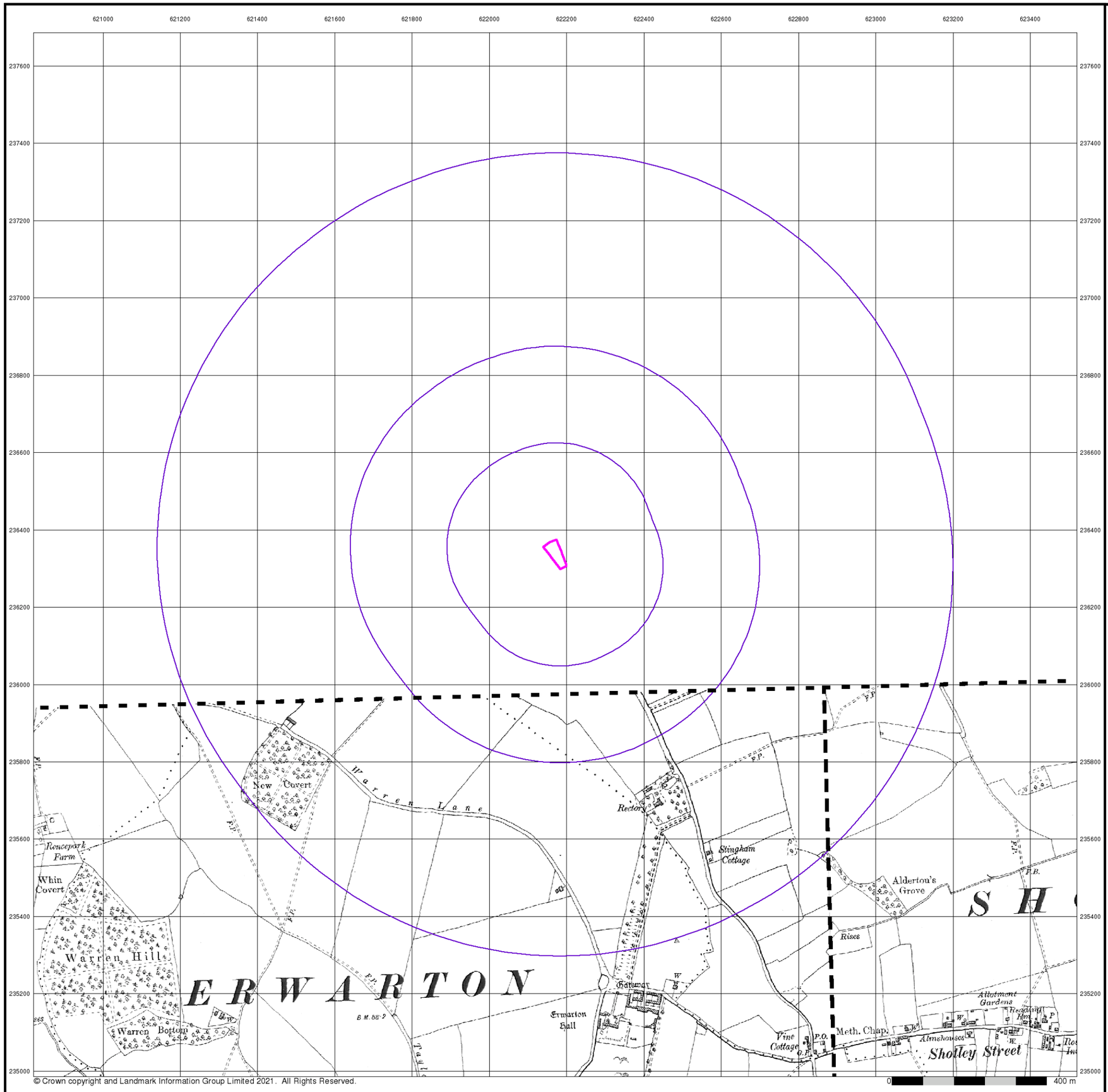




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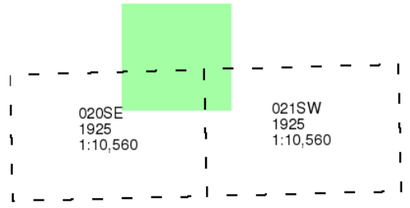
## Essex

## Published 1925

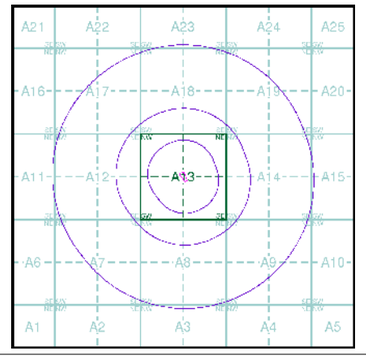
## Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)




## Historical Map - Slice A

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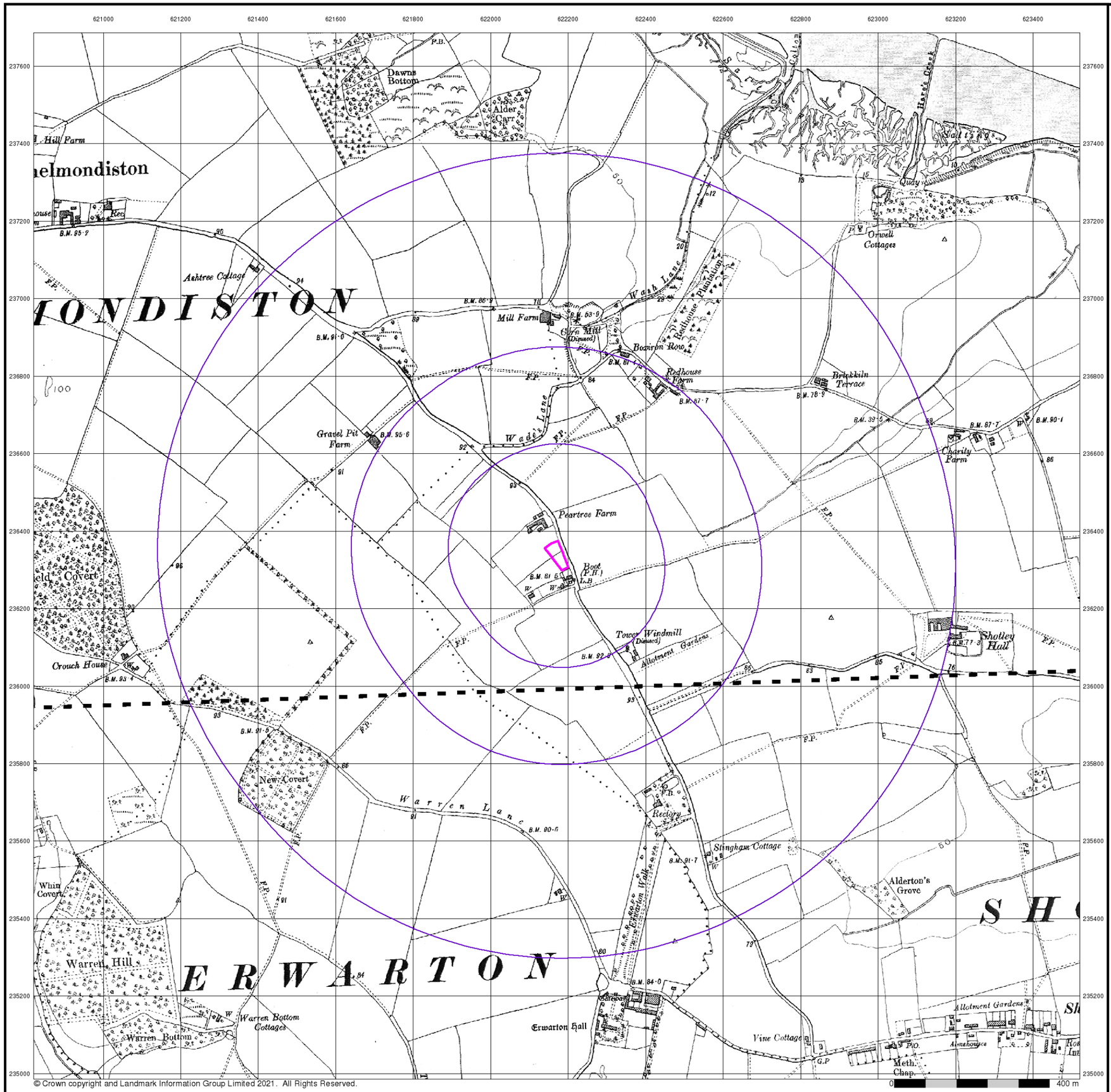




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## Suffolk

## Published 1928

## 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.

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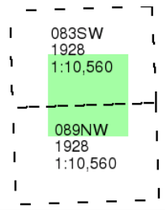
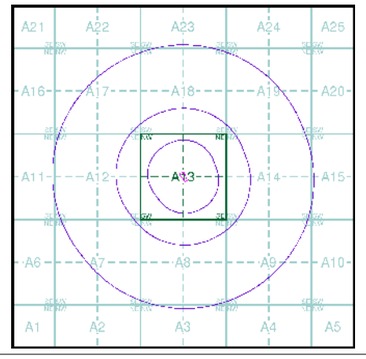



## Historical Map - Slice A

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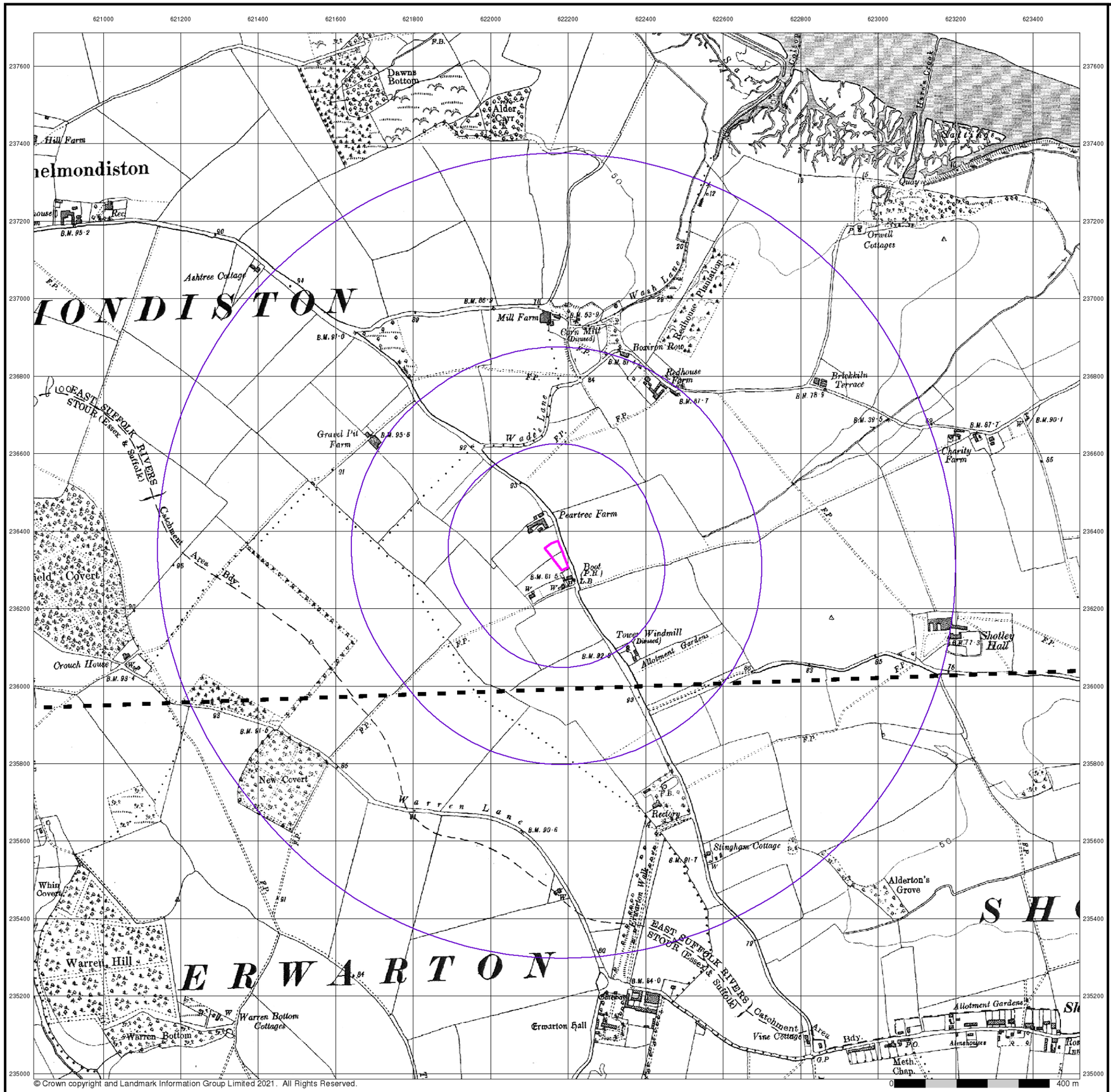




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## Suffolk

## Published 1928

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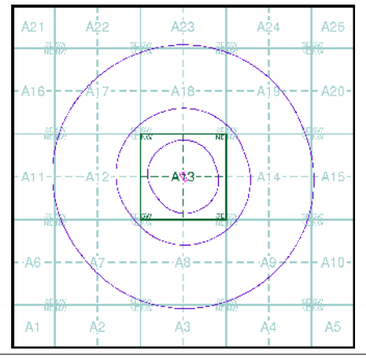
## Map Name(s) and Date(s)

083SW
1928
1:10,560

089NW
1928
1:10,560

## Historical Map - Slice A

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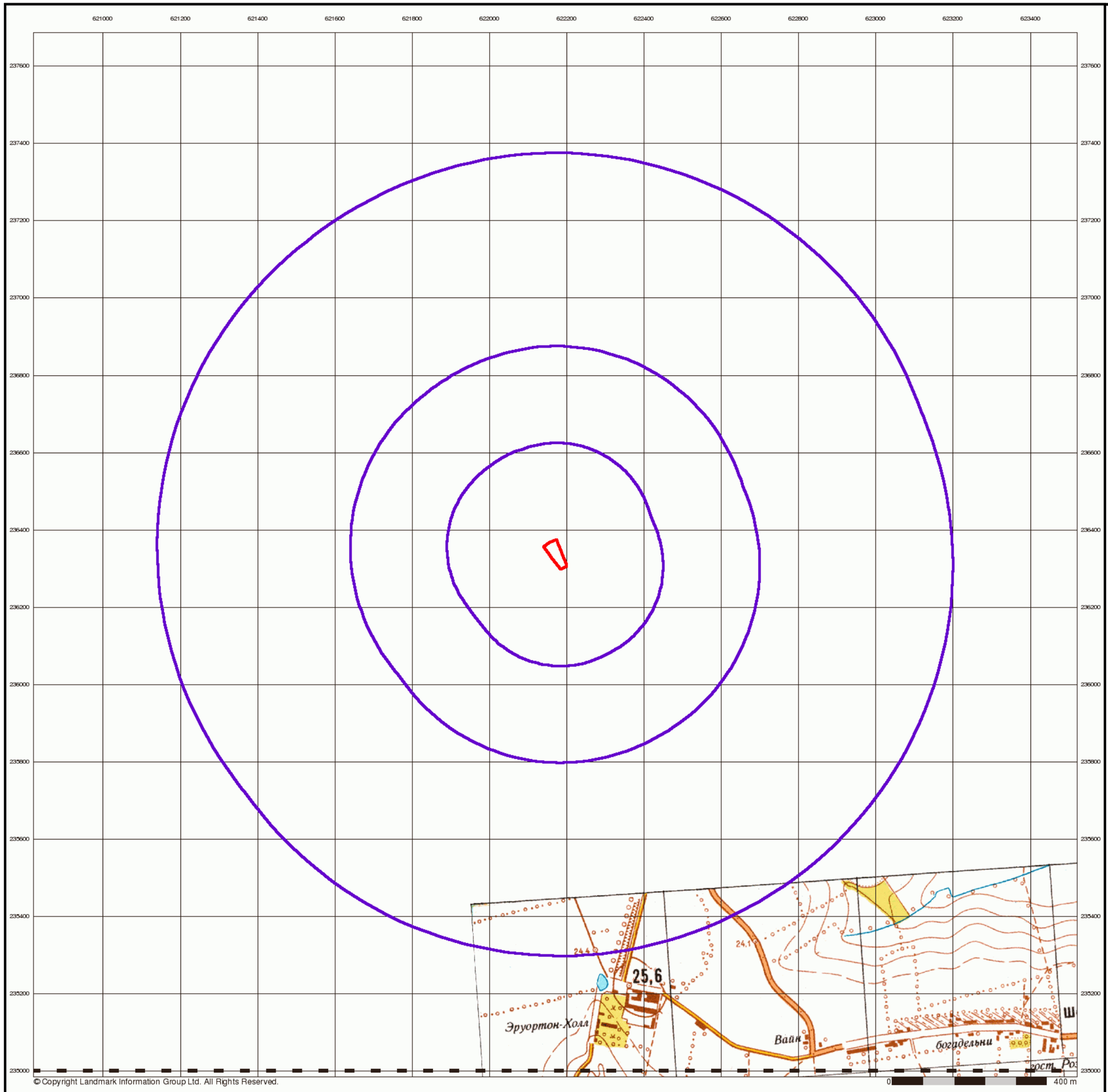



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## Harwich

## Published 1957

## Source map scale - 1:10,000

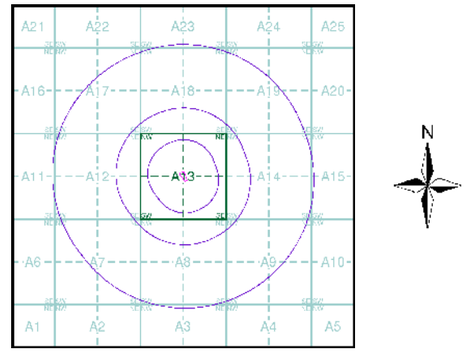
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

### Map Name(s) and Date(s)

TM23NW
1957
1:10,000

TM23SW
1957
1:10,000

### Russian Map - Slice A




### Order Details

| | |
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| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

### Site Details

Farmside, Shotley, IPSWICH, IP9 1EY

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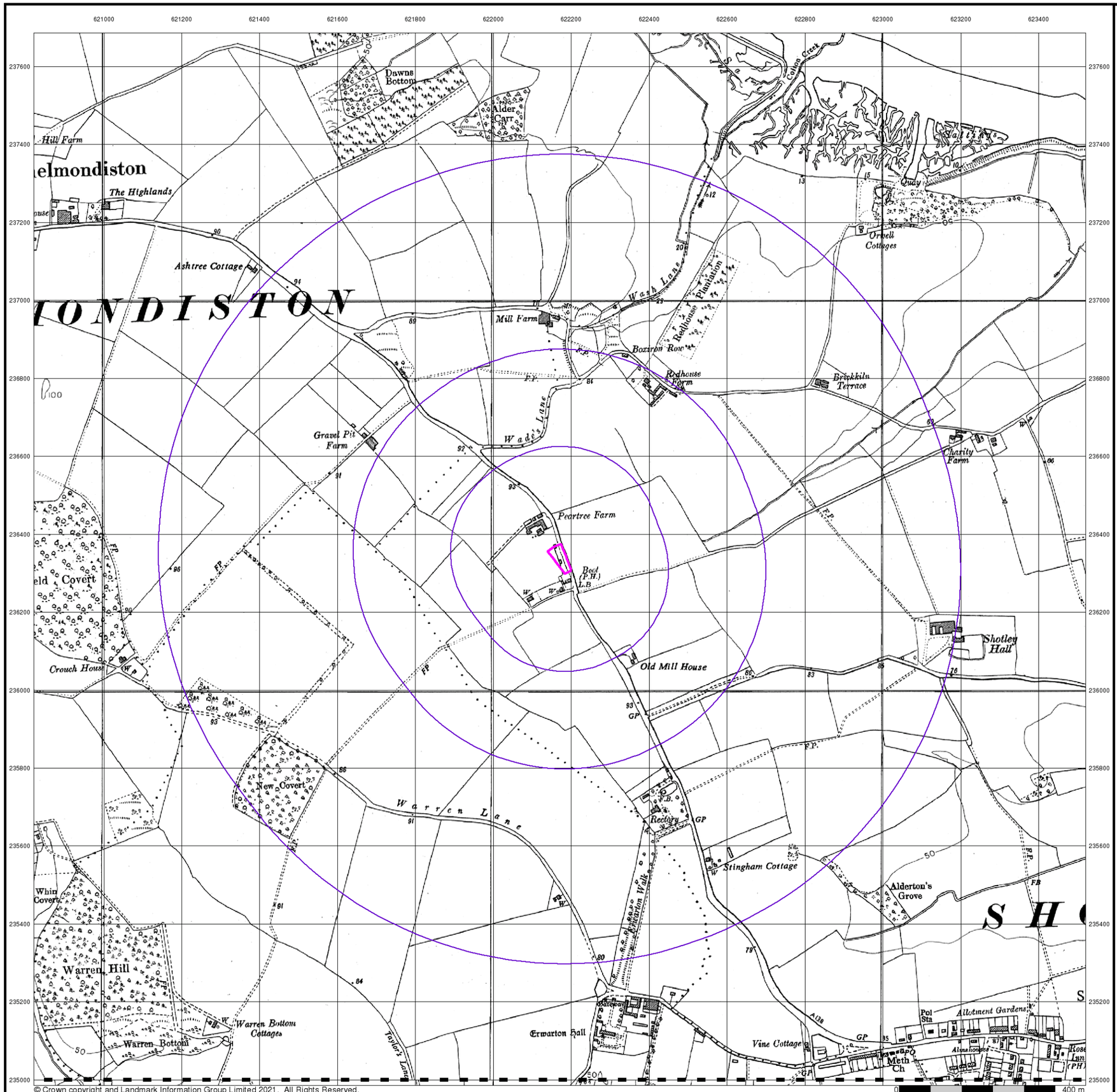




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## Ordnance Survey Plan

### Published 1958

### Source map scale - 1:10,000

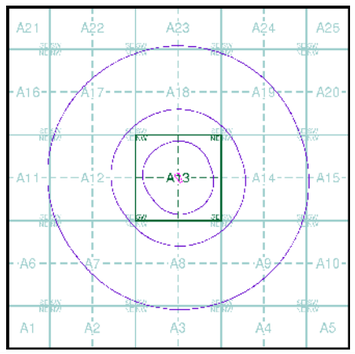
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

TM23NW
1958
1:10,560

TM23SW
1958
1:10,560

## Historical Map - Slice A




## Order Details

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| Customer Ref: | 6020 |
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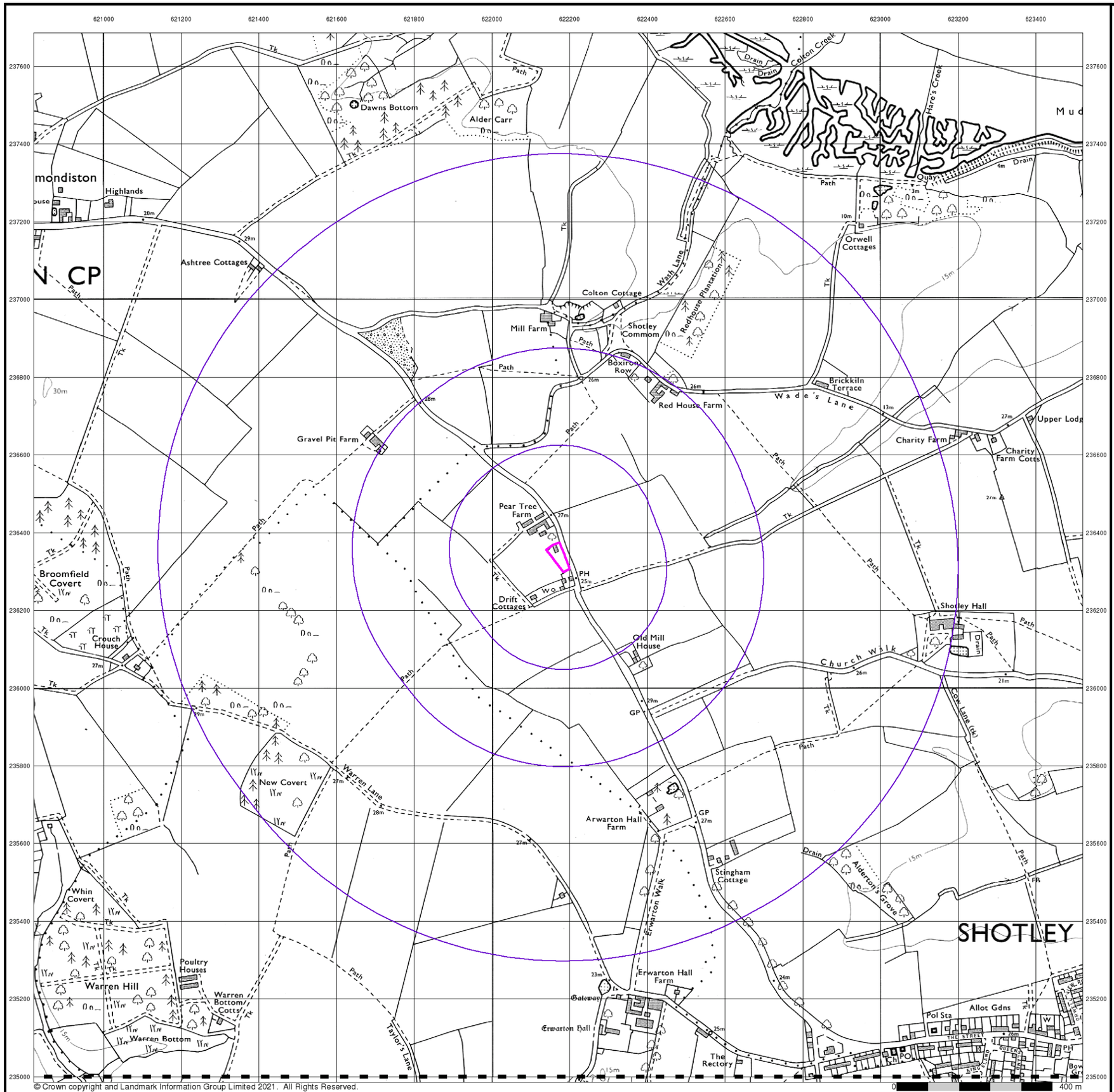




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## Ordnance Survey Plan

### Published 1971 - 1977

### Source map scale - 1:10,000

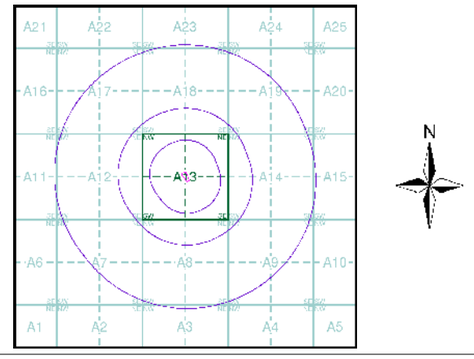
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

TM23NW
1971
1:10,000

TM23SW
1977
1:10,000

## Historical Map - Slice A

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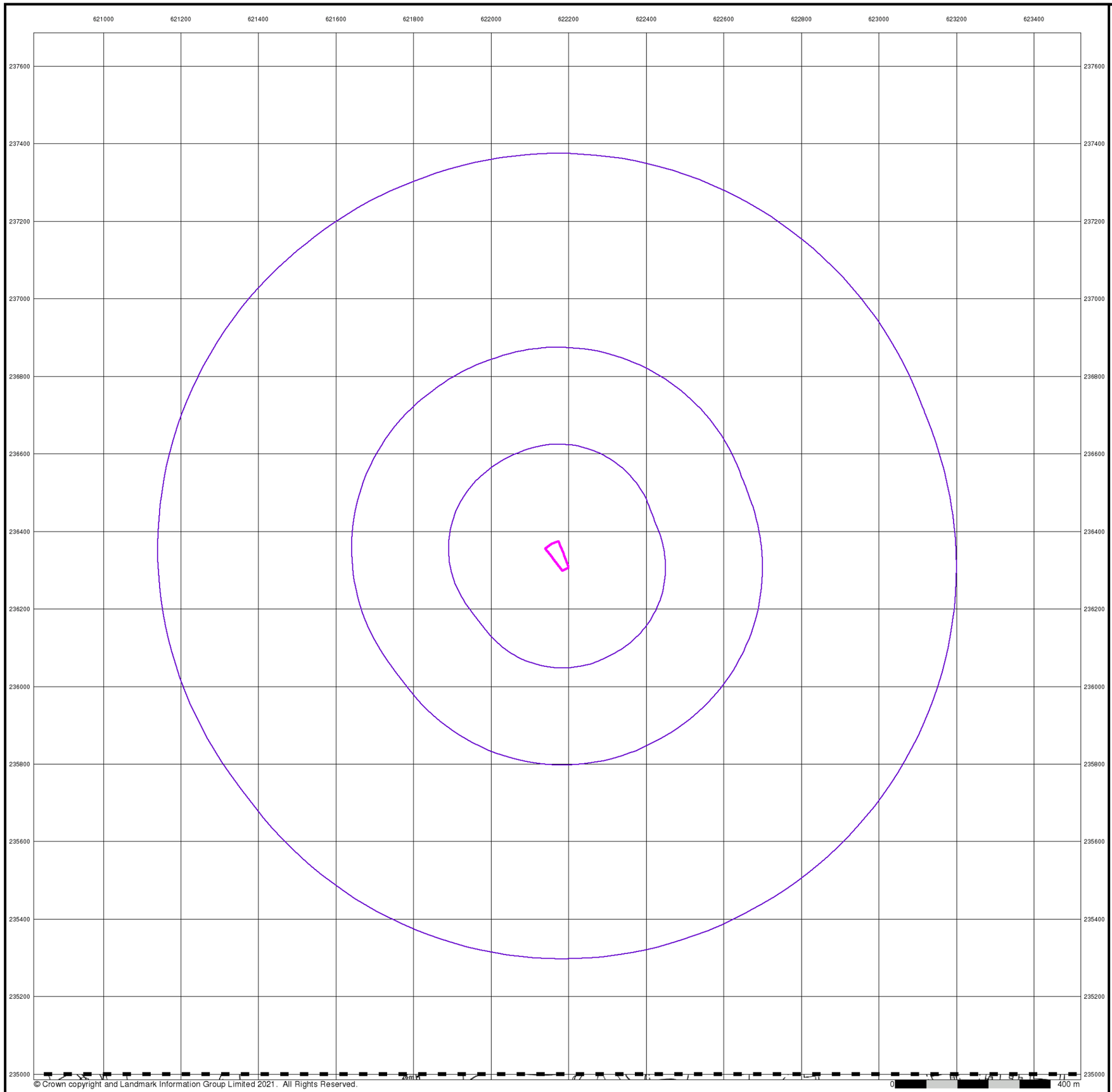




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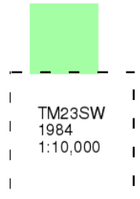
## Ordnance Survey Plan

## Published 1984

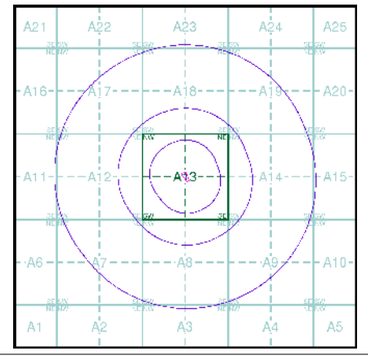
## Source map scale - 1:10,000

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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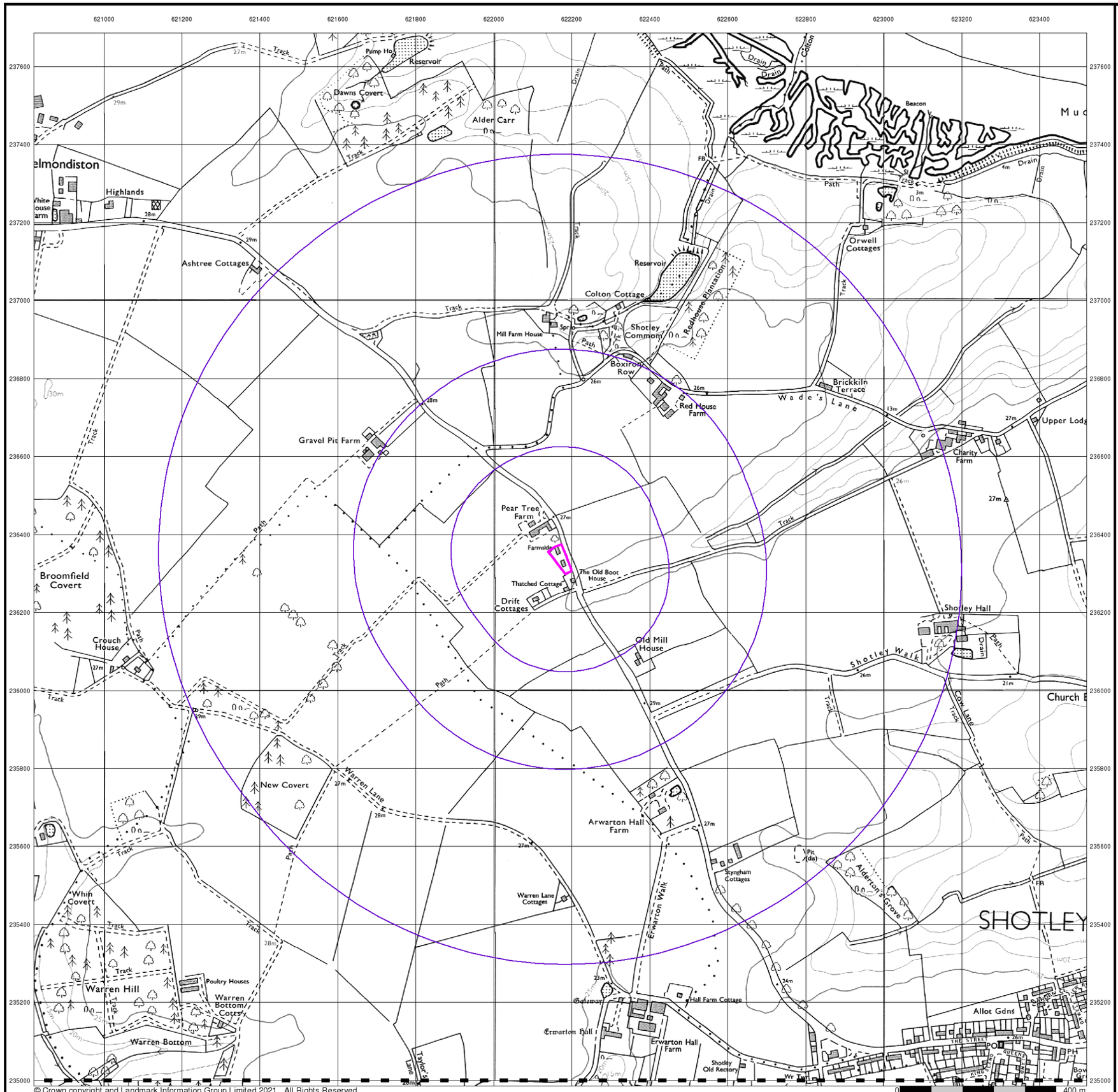




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## Ordnance Survey Plan

### Published 1990

### Source map scale - 1:10,000

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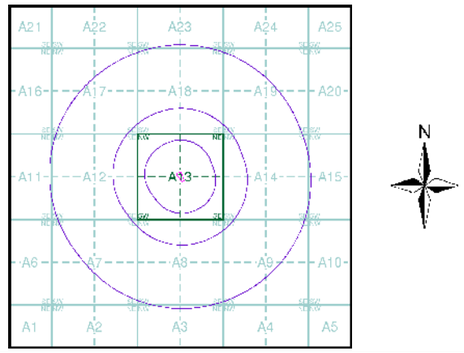
## Map Name(s) and Date(s)

TM23NW
1990
1:10,000

TM23SW
1990
1:10,000

## Historical Map - Slice A

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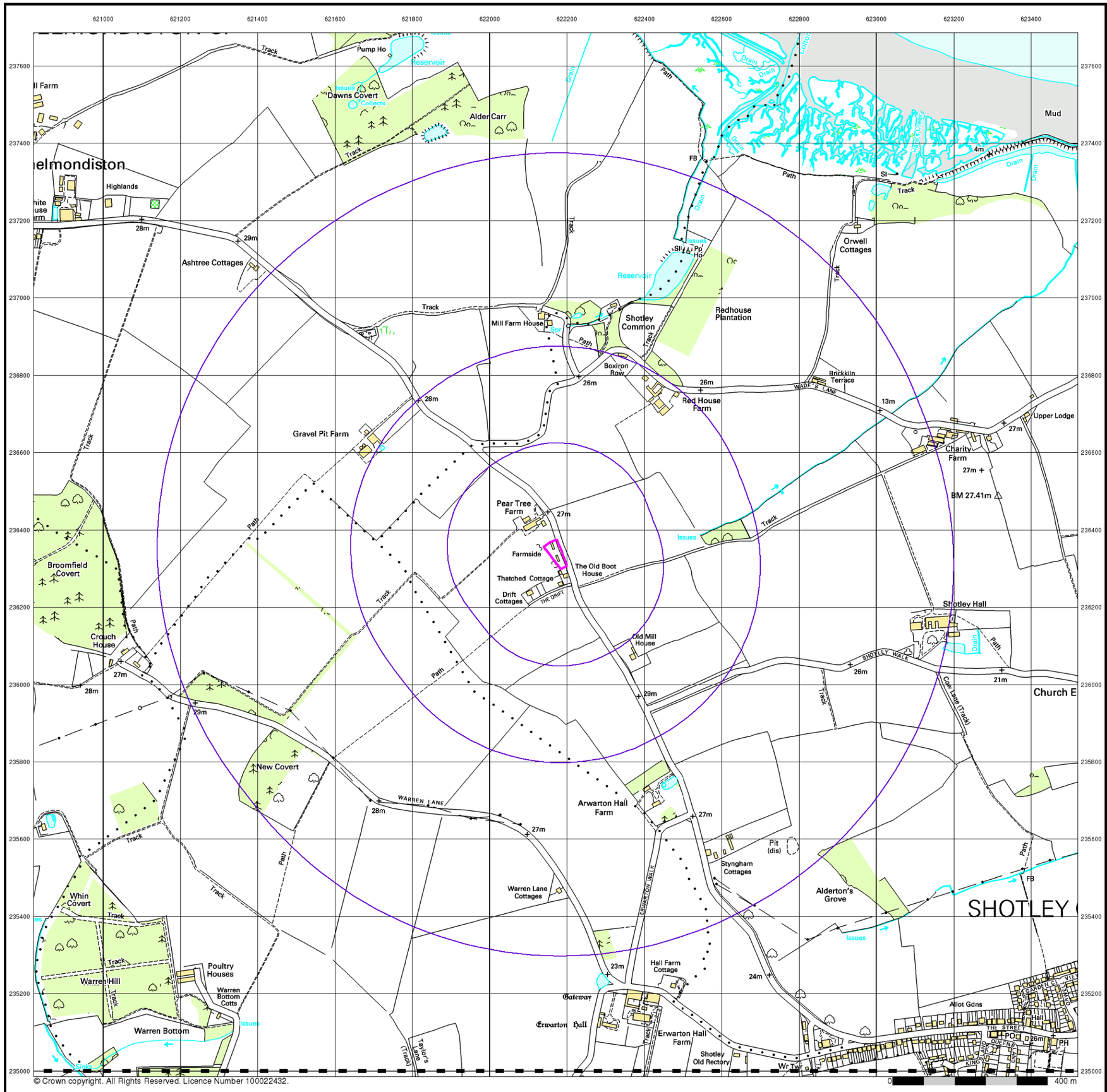




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## 10k Raster Mapping

**Published 1999 - 2000**

**Source map scale - 1:10,000**

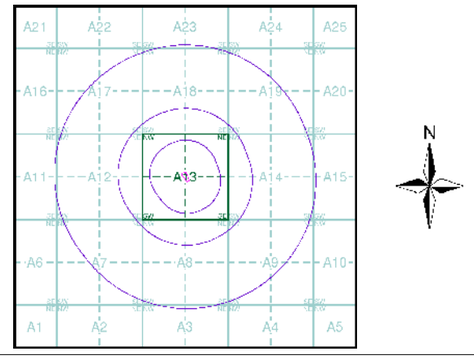
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

TM23NW
2000
1:10,000

TM23SW
1999
1:10,000

## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

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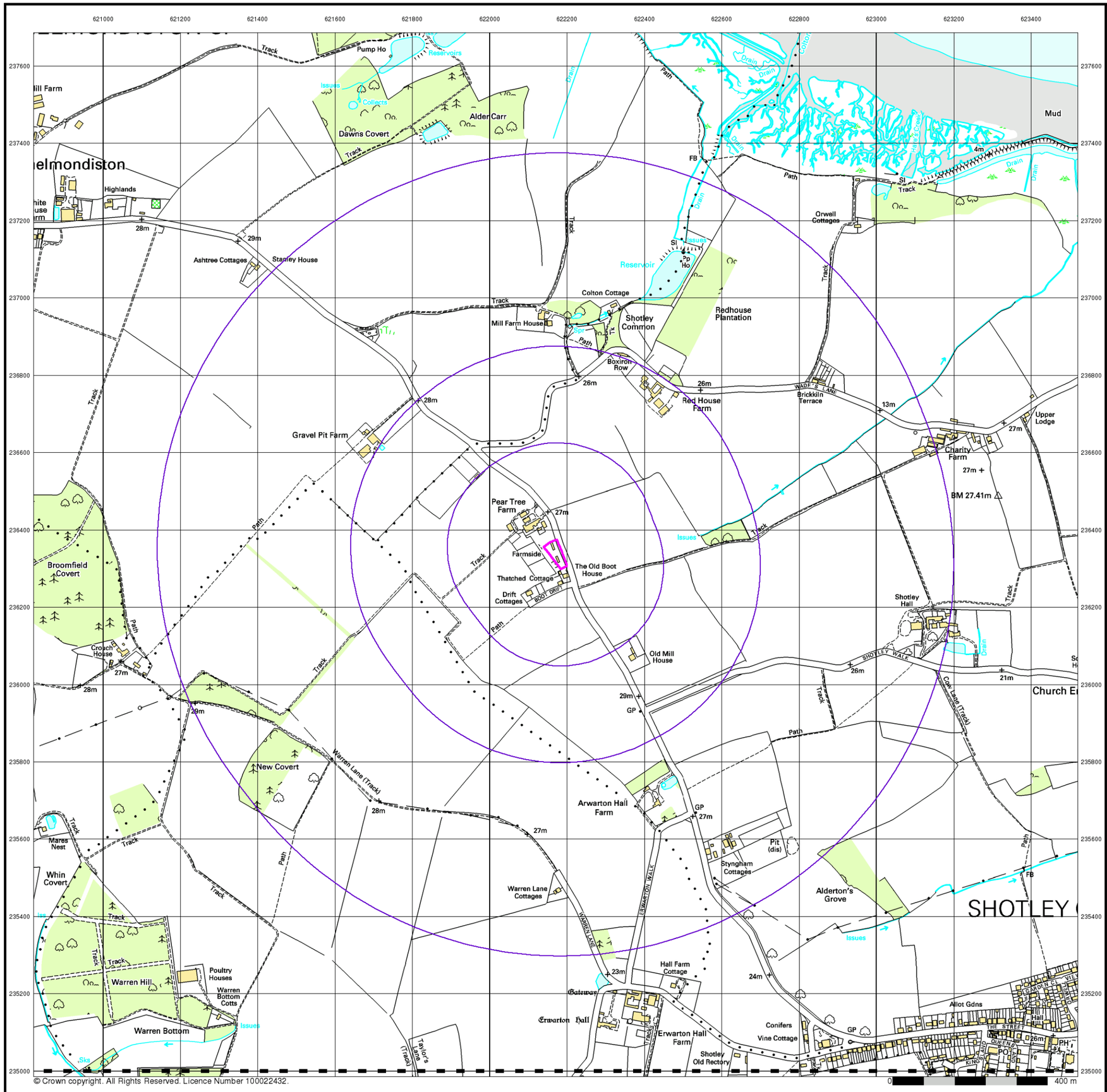


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## 10k Raster Mapping

## Published 2006

## Source map scale - 1:10,000

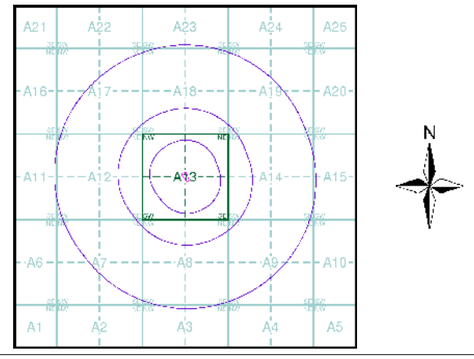
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

## Map Name(s) and Date(s)

TM23NW
2006
1:10,000

TM23SW
2006
1:10,000

## Historical Map - Slice A

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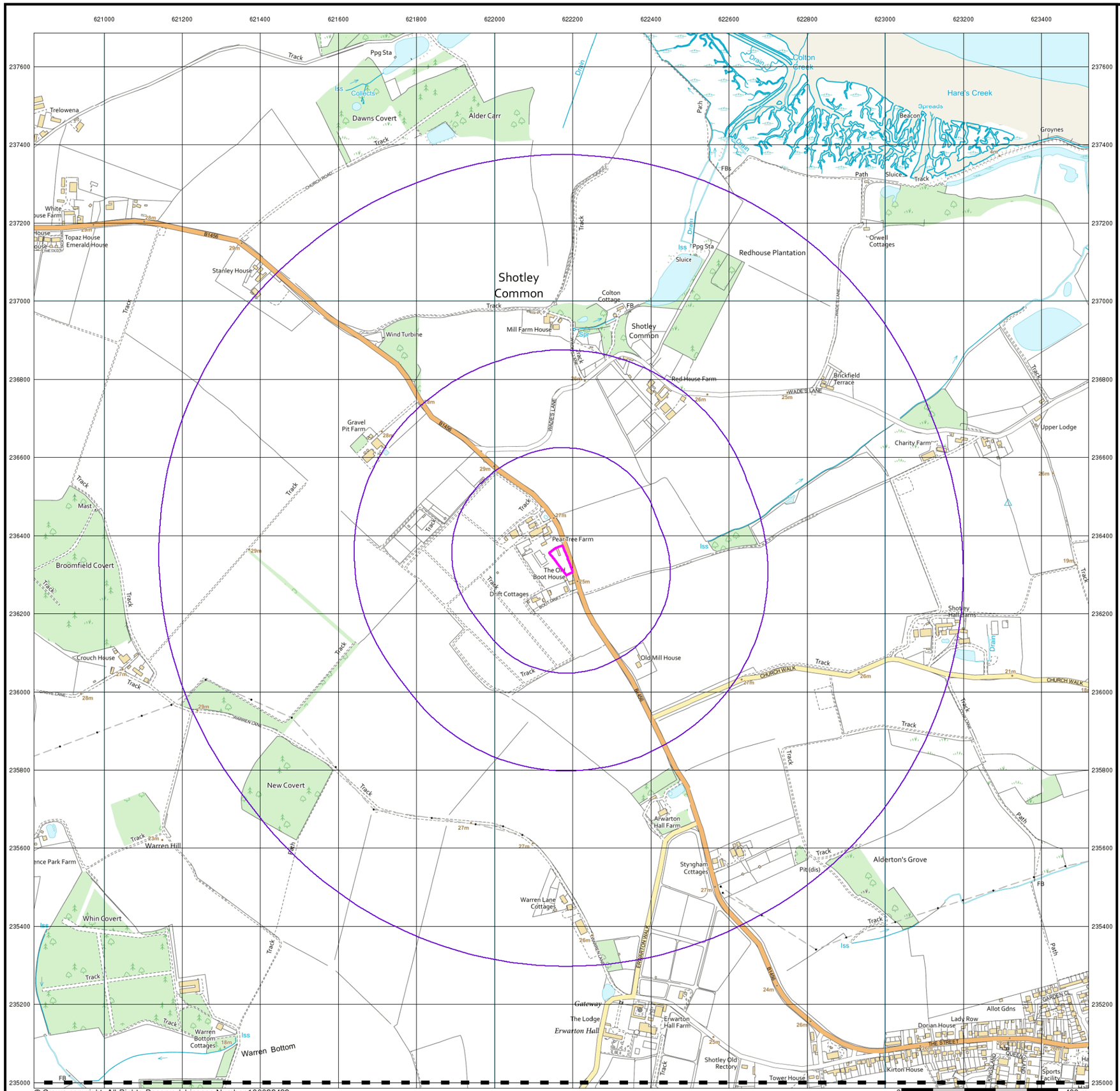


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## VectorMap Local

### Published 2021

### Source map scale - 1:10,000

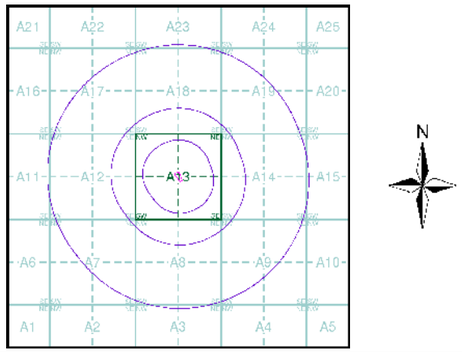
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap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

## Map Name(s) and Date(s)

TM23NW
2021
Variable

TM23SW
2021
Variable

## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 287242165_1_1 |
| Customer Ref: | 6020 |
| National Grid Reference: | 622170, 236340 |
| Slice: | A |
| Site Area (Ha): | 0.22 |
| Search Buffer (m): | 1000 |

## Site Details

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# Appendix 5 – Comparison of Consequences Against Probability

| Probability (Likelihood of linkage from) | Consequence (Severity of Linkage) | | | |
|---|---|---|---|---|
| | Severe (S) | Moderate (Mo) | Mild (Mi) | Negligible (N) |
| Highly Likely (HL) | Very High Risk (VH) | High Risk (HR) | Moderate Risk (MR) | Moderate/Low Risk (MR-LR) |
| Likely (L) | High Risk (HR) | Moderate Risk (MR) | Moderate/Low Risk (MR-LR) | Low Risk (LR) |
| Unlikely (U) | Moderate Risk (MR) | Moderate/Low Risk (MR-LR) | Low Risk (LR) | Negligible Risk (NR) |
| Negligible (N) | Moderate/Low Risk (MR-LR) | Low Risk (LR) | Negligible Risk (NR) | Negligible Risk (NR) |

This table is to provide reference information in conjunction with the GEL Conceptual Model attached within the Hazard Risk Assessment section of this report, Table 4 – Preliminary Conceptual Site Model.

Very High Risk (VH)

- There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is happening currently.
- Urgent investigation and remediation are likely to be required and advised.

High Risk (HR)

- Harm is likely to arise to a designated receptor from an identified hazard.
- Urgent investigation is required and remedial works are likely necessary in both the short to long term.

Moderate Risk (MR)

- 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, or if any harm were to occur it is more likely that the harm would be relatively mild.
- Investigation is required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.

Low Risk (LR)

- It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Limited investigation recommended.

Negligible Risk (NR)

- There is a minimal possibility that harm could arise to a receptor. In the event of such harm being realised it is high likely to not be severe. Investigation not deemed necessary.

# Appendix 6 - Drawings

Site Location Plan – Drawing ref. 6020,DS/001/Rev0

Site Plan – Drawing ref. 6020,DS/002/Rev0


GEOSPHERE ENVIRONMENTAL

**LEGEND**

Site Location

**SOURCE**

© OpenStreetMap contributors

**PROJECT**

Farmside, Shotley, Ipswich, IP9 1EY

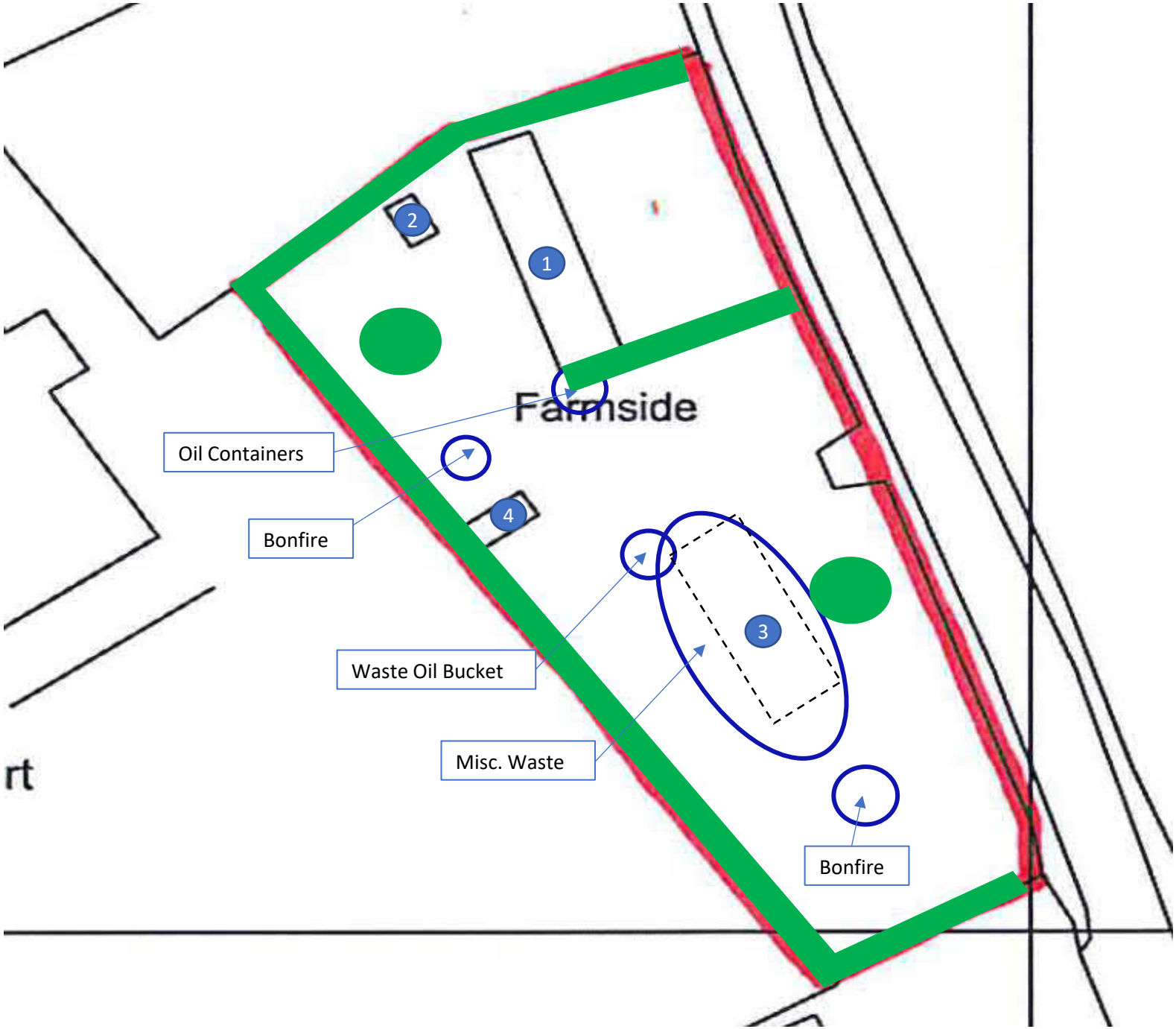
**TITLE**

Site Location Plan

**DRAWING NUMBER**

**6020,DS/001/Rev0**

| SCALE | DATE |
|---|---|
| NTS | 10/11/2021 |
| **DRAWN BY** | **CHECKED BY** |
| HS | GF |




GEOSPHERE ENVIRONMENTAL

**LEGEND**

- Site boundary
- Trees/Hedges
- Feature
- 1 Residential bungalow
- 2 Shed
- 3 Collapsed shed
- 4 No structure present

**SOURCE**

Client provided base plan

**PROJECT**

Farmside, Shotley, Ipswich, IP9 1EY

**TITLE**

Site Layout Plan

**DRAWING NUMBER**

**6020,DS/002/Rev0**

| SCALE | DATE |
|---|---|
| NTS | 10/11/2021 |
| **DRAWN BY** | **CHECKED BY** |
| HS | GF |

# Appendix 7 – Selected Site Photographs

**Photograph 1**

**Photograph 2**

**Photograph 3**

**Photograph 4**

GEOSPHERE ENVIRONMENTAL

**DESCRIPTION**

**Photograph 1**

Front of the bungalow from the road

**Photograph 2**

Garden area to rear of the bungalow

**Photograph 3**

Cherry tree, shed and other domestic goods in rear garden

**Photograph 4**

Empty oil/lubricant containers

**PROJECT**

Farmside, Shotley, Ipswich, IP9 1EY

**PROJECT NUMBER**

6020,DS

**TITLE**

**Selected Photographs Relating To Site Works**

**DATE**

15/11/2021

**Photograph 5**

**Photograph 6**

**Photograph 7**

**Photograph 8**

GEOSPHERE ENVIRONMENTAL

**DESCRIPTION**

**Photograph 5**
North facing view of the rear garden area

**Photograph 6**
Bonfire/localised burning in rear garden area

**Photograph 7**
Misc. waste / collapsed shed in rear garden

**Photograph 8**
Waste oil bucket in rear garden

**PROJECT**
Farmside, Shotley, Ipswich, IP9 1EY

**PROJECT NUMBER**
6020,DS

**TITLE**
**Selected Photographs Relating To Site Works**

**DATE**
15/11/2021

GEOSPHERE ENVIRONMENTAL

Ec Ecology.

Fr Flood Risk.

Ge Geotechnical.

En Environmental.

Kw Knotweed.

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