

Manufacturing Process Extension: FINAL Site Condition Report

Etex Building Performance Ltd

June 2023

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1. Introduction

1.1 Background

This report is in support of an application by Etex Building Performance Limited (EBP) for a permit variation for the extension to their existing plasterboard manufacturing site on Redland Avenue, Easton-In-Gordano, Bristol, BS20 0FB.

This requires a variation to the site's current Part A1 EPR permit (Schedule 1, section 1.1 A1 (a)(i) combustion activity). The new activities being added are identical to those currently permitted but constitute a Part A1 activity in their own right ($\geq 50\text{MW}$ thermal input) and the site boundary is being extended to the south-east to include an additional 11.4 hectares of adjacent land, previously used as a coal stock yard by another party. A new manufacturing facility will be constructed on this land.

An existing and proposed site layout plan is presented in **Appendix A**.

1.1.1 Site Condition Report

This Application SCR follows the Environment Agency's H5 guidance (ref: LIT 8001 Version 3.0 April 2013), which has a set template. Sections 1.0-3.0 are concerned with the Application SCR. Sections 4.0-7.0 are relevant during the life of the permit and sections 8.0-10.0 relevant for site surrender stage. This Application SCR thus only concerns itself with Sections 1.0-3.0, which are presented in Section 2 of this report.

1.2 Objectives

The principal aim of this report is to describe the condition of the land and groundwater of the land to be added to the permit at this point in time. This involves collecting information regarding the substances to be used in the permitted process to undertake an environmental risk assessment specifying the hazards from the operation and which environmental receptors could be affected; in the case of this SCR: land and water. This is a requirement for all installation activities which involve the use, production or release of relevant hazardous substances (as defined in Article 3(18) of the Industrial Emissions Directive).

Articles 16 and 22 of the Industrial Emissions Directive require that a quantified baseline is established for the level of contamination of soil and groundwater with relevant hazardous substances, in order that a comparison can be made on final cessation of activities.

This report considers the past pollution history of the site, to determine what substances could already be present beneath the site, to form a baseline of site conditions for the application. It is important to note that this only concerns itself with Potentially Polluting Substances (PPS), i.e. those that are used in the permitted activities, rather than all contaminants. The baseline serves as a record of what site conditions were like at the start of the permitted activities to avoid difficulties with future permit surrender.

This will be achieved through the following scope of works:

- Establish the environmental setting and context of the site.
- Determine the historical land use of the site, including consideration of previous desk studies and site investigation reports.
- Consider Pollution Likelihood.
- Develop a preliminary Conceptual Site Model (CSM).
- Conduct a preliminary risk assessment of potential contamination at the site.
- Provide or comment on the baseline condition.
- Make recommendations for further works (if necessary).

This report identifies the potential impact of all sources of hazardous pollutants to surface waters and/or sewer from regulated industry.

1.2.1 Description of Current Permitted Activities

The installation is for the production of plasterboard materials from gypsum using a combination of raw materials and recycled plasterboard. The ingredients are milled, heated and combined with additives and water to produce plaster slurry. The slurry is extruded, dried and cut into boards.

Within the existing plasterboard manufacturing facility, gas burners are used in milling, drying and high temperature processes with a combined thermal output in excess of 50 megawatts. These thermal processes are permitted by the EA under Permit reference EPR/XP3036SZ.

The permit notes that the main emissions are to air from particulates and exhaust gases and that there are no existing process discharges to sewer, surface water or land.

- Section 1.1 A1 (a) (i) - Burning any fuel in an appliance with a rated thermal output >50MW (aggregation of all units).
- Section 3.5 B (a) - Unless falling within Part A(1) or Part A(2) of any Section of this Schedule, the crushing, grinding or size reduction, other than the cutting of stone, or the grading, screening or heating of any designated mineral or mineral product except where the operation of the activity is likely to result in the release into the air of particulate matter (plaster process).

And the associated activities:

- Reclamation of plasterboard for re-use; and
- Operation of condensate recovery systems.

The existing permit is to be varied to add 11.4 hectares of land to the permitted site. The additional land will accommodate additional gypsum storage and calcination plant, a new plasterboard forming line and drier, in addition to the permitted activities listed above.

1.2.2 Non Permitted Activities

Additional activities taking place on site, which are outside of the scope of the existing Environmental Permit include:

- Production of product in the Plasters Plant;
- Production of product on the Lamination and Reprocessing Line;
- Warehousing;
- Loading and Transport;
- Filling of vehicles from fuel tanks; and
- Office-based activities in the training centre and offices.

1.3 Information Sources

The following information sources have been used in this report:

- Site Layout Plan (presented as **Appendix A**).
- Previous Landmark Envirocheck Report (reference: 50026892_1_1), dated October 2013, and previous Grounsure Enviro+Geo Insight Report, reference EMS-601901_804979 dated March 2020 (the latter is presented in **Appendix B**).
- Site photographs from the existing and proposed areas (presented as **Appendix C**).
- Historical Ordnance Survey Mapping (see **Section 3.9** and **Appendix D**).

- Previous Environmental Assessment Reports (including previous environmental database search, see **Section 4.0**).
- British Geological Survey (BGS) Borehole Records (www.bgs.ac.uk).
- BGS mapping sheet 264 'Bristol' (1:50,000 scale).
- Open Source aerial images. Aerial photos are also provided within the Groundsure Report in **Appendix D**.
- Defra's Open Source MAGIC website (<https://magic.defra.gov.uk/magicmap.aspx>).
- Defra's Open Source historic landfill database (<https://environment.data.gov.uk/>).
- Planning Pages: North Somerset Council.

1.3.1 Limitations and Reliance on 3rd Party Data

This report has been produced by Turnkey for use by EBP or Air Quality Consultants Ltd (AQC) in connection with the proposed development. It is not intended for and should not be relied upon by any third party except as provided for in Turnkey's agreement with EBP or AQC.

Turnkey has based this report on the sources of information detailed within the report and believes them to be reliable but cannot and does not guarantee the authenticity or reliability of third-party information. Notwithstanding the reasonable skill and care exercised by the professional team in undertaking this assessment, it is possible that ground conditions and constraints other than those potentially indicated by this report may exist at the site.

This report has been prepared based on current legislation, statutory requirements, planning policy and industry good practice prevalent at the time of writing. Any subsequent changes or new guidance may require the findings, conclusions and recommendations made in this report to be reassessed in light of the circumstances

2. Application Site Condition Report

As noted in Section 1, the tabular format below takes the format and numbering referencing as per the SCR EA reporting requirements. Further sections of the EA's requirements are section 4-7; relevant during the life of the permit and sections 8-10; relevant for site surrender stage.

| 1.0 Site Details | |
|--|---|
| Name of the applicant | Etex Building Performance Limited |
| Activity address | Redland Avenue, Easton-in-Gordano, Bristol, BS20 0FB |
| National Grid Reference | 350994, 176889 ST 50994 76889 |
| Document reference and dates for Site Condition Report at permit application and surrender | Turnkey Report Ref 0056-R002i1 dated 7 th June 2022 |
| Document references for site plans (including location and boundaries) | See Appendix A: - existing permitted site boundary plan - new 11.4hectares of land to be added - newly proposed site boundary plan. |

| 2.0 Condition of Land at Permit Issue | |
|--|---|
| Environmental setting including: <ul style="list-style-type: none"> • geology • hydrogeology • surface waters | For details of the environmental setting, geology, hydrogeology and surface waters, refer to Section 3.1 . |
| Pollution history including: <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures | Refer to Section 3.8 , for information on the site walkover, including visual and olfactory observations. For Site history and associated contaminants, refer to Section 3.9 , Supporting Information including visual and olfactory observations. Refer to Section 4.0 for details of the previous site investigation information, including visual and olfactory observations. |
| Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available) | Refer to Section 4.0 for details of the previous site investigation information. |
| Baseline soil and groundwater reference data | Refer to Section 4.0 for details of the previous site investigation and validation information. |
| Supporting Information | Review of - Historical Ordnance Survey plans (Appendix D). |

| | |
|--|---|
| | <ul style="list-style-type: none"> - Historical investigation reports (Section 4.0). - Site reconnaissance (Section 3.8) and photographs (Appendix C). |
|--|---|

3.0 Permitted Activities

| | |
|---|---|
| Permitted activities | As noted in Section 1.1, the new factory will have identical activities, thus details of the permitted activities are presented in Section 1.2.1 . |
| Non-Permitted Activities undertaken | As noted in Section 1.1, the new factory will have identical activities, thus details of the permitted activities are presented in Section 1.2.2 . |
| Document references for: | <p>For plans showing the activity layout, refer to Appendix A.</p> <p>For the Environmental Risk Assessment, refer to Section 6.0.</p> |
| <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. | |

3. Site Environmental Setting

3.1 Environmental Setting

The ground conditions for the site and controlled waters vulnerability are presented in **Table 3.1**.

Table 3.1 Ground Conditions

| | |
|-----------------------|--|
| Geology | <p>The site is underlain by:</p> <ul style="list-style-type: none"> • Superficial Tidal Flat Deposits - Clay and silt; over • Mercia Mudstone Group - Mudstone and halite-stone. <p>Off-site BGS borehole logs recorded between 6m and 9m thickness of deposits consistent with the superficial Tidal Flat Deposits overlying Mercia Mudstone. Groundwater rested between 1m and 2m depth within the superficial deposits.</p> |
| Hydrogeology | <p>The superficial Tidal Flat Deposits are classed as Unproductive strata and the Mercia Mudstone is a Secondary B Aquifer.</p> <p>Groundwater Vulnerability rated as low (Secondary B bedrock aquifer, unproductive superficial strata); soils are rated as an intermediate to high leaching class.</p> <p>The site is not located within an area classified by the EA as a Source Protection Zone (SPZ).</p> |
| Surface Waters | <p>Nearest surface water features are a surface water drainage ditch or Rhyne on the northern boundary. A surface water lagoon is adjacent to the NW. The River Avon is 300m E / NE.</p> |

3.2 Landfill Sites

Two historical landfills identified within 500m: The closest is located 230m N / NE of the site on land adjoining the Royal Portbury Dock where inert, industrial, household and special waste was accepted until the 1990s, and 400m W at the Royal Portbury Dock accepting inert waste until the 1960s. Previous reports indicate a refuse heap was located on the southern edge of the site.

Whilst these were potentially significant sites with respect to contamination potential, the fine-grained ground conditions combined with the distance to site means that the site is not likely to be affected by the migration of contaminants from these potential sources.

3.3 Water Discharges and Abstraction Licenses

Etex abstracts groundwater from two boreholes on the adjacent existing factory site. The boreholes are located on the west boundary adjacent to the above ground water tanks, west of the parking area.

There are no records of other abstractions. The nearest identified off-site groundwater abstraction is 1km south for general use in a motorway services area.

There were 25 records of licensed discharge consents within 500m of the site, the closest being four discharges adjacent to the site. All were for the Bristol Port Company and Royal Portbury Dock where trade discharges are released into a tributary of the River Avon.

3.4 Waste Treatment and Disposal Sites

No registered waste sites identified within 500m.

3.5 Statutory Sensitive / Sensitive Environmental Receptors

The banks of the River Avon are designated RAMSAR and SSSI status, 250m to 300m E and NE, respectively. The Lamplighters Marsh Local Nature Reserve is 700m E.

The River Avon 300m E is part of the Severn Estuary Designated Special Area of Conservation (SAC) and Special Protection Area (SPA) (Conservation of Natural Habitats and of Wild Fauna and Flora).

3.6 Hazardous Substances / Permits

The coal stock yard was historically recorded as a Notification of Installations Handling Hazardous Substances (NIHHS) site. Two sites recorded within 1km, at 360m NW and 660m W for shipping / agricultural bulk services. An ammonium nitrate store was historically recorded 977m E.

The existing Etex facility is permitted for combustion and associated processes as detailed in previous sections.

3.7 Pollution Incidents

The most recent record of a pollution incident is for a 2002 incident involving biodegradable waste entering water and land, categorised as minor. The other record is for a minor incident in 1999, 800m N.

The existing factory site holds records of past pollution incidents and these mostly relate to dust emissions which are continually managed. No significant incidents are recorded relating to the existing factory site.

EA CAR forms for the adjacent existing plasterboard site dated December 2020 and December 2021 found good on-site practices overall and only observed slight spillages on the ground (which were being managed in accordance with site procedures) and an observation of a water-filled bund at a refuelling point (which was resolved thereafter).

3.8 Site Walkover

An environmental consultant from Turnkey undertook a site walkover on 5th May 2022. Photographs of the facility are presented in **Appendix C** (C1 the current facility and C2 the proposed site), noting the constraints of visiting an active earthworks site in relation to the proposed facility.

At the time of the walkover, the proposed facility was undergoing earthworks to create a stable development platform and piling mat, and consisted of stockpiles, excavation faces and pile mats under construction. There were no obvious signs of visual or olfactory contamination.

Adjacent land uses were:

- North: Existing Etex manufacturing plant.
- East: Vehicle storage / parking, vegetated banks of River Avon.
- South: Bay C of the former coal stock yard, currently covered with aggregate and used for vehicle storage.
- West: Vehicle storage and parking.

Operating methods and processes observed on the walkover of the existing facility made the following observations:

- Site was hard paved across all factory, process and storage areas, with only limited soft landscaping, mainly around the perimeters.
- Storage of raw materials was organised with separate storage areas for different grades of materials such as hazardous materials and bulk non hazardous materials.
- Waste segregation was evident with containers and bays for each different material type. Off site disposal is through registered carriers / brokers / receivers.

- Site demonstrated waste minimising by recycling process materials including water.
- Workers are trained in the handling and use of materials and in spill prevention. Spill kits are in use all around the site.

3.9 Site History

A review of available historic mapping and aerial imagery has been undertaken using historical Ordnance Survey (OS) maps and plans provided with the previous site assessment reports and reproduced in **Appendix D**. Open source aerial images and the 2020 Groundsure report (**Appendix D**) were used to identify details from the past 20 years.

Key points of the historical development of the site and surrounding area are summarised below in **Table 3.2**.

Table 3.2 Site Development History

| Dates | Description |
|--------------|---|
| 1884 – 1938 | On Site: Site is undeveloped land. Off Site: Surrounding areas are undeveloped. |
| 1955 - 1972 | On Site: No significant change. Off Site: Development 200m NW (later labelled as 'works', nursery and caravan site). |
| 1981 - 1992 | On Site: By 1992, part of the site is part of a larger spoil heap to the S and SE. Off Site: Industrial development adjacent to NW and W. |
| 1992 – 2013 | On Site: Site is a coal stock yard, with conveyor belts shown. Previous reports identify the Portbury Coal Stockyard as being constructed in the early 1990s. Off Site: Industrial development adjacent to N and NW including a fuel depot 250m N. The works 200m NW are gone by 2006. |
| 2013 – 2020 | On Site: No significant changes. Off Site: Industrial development adjacent to N and NW including a fuel depot 250m N. Buildings 200m NW are labelled an industrial estate. |

Key points of the historical development of the site and surrounding area are summarised below:

- Site was undeveloped until the 1970s / 1980s when a spoil heap was recorded on the S boundary.
- Site was a coal stock yard from the 1990s to circa 2020.
- Vehicles stored in the S part in the past 20 years.
- Adjacent land was undeveloped until the 1950s (200m NW) and 1980s (adjacent factory site to N).

4. Previous Environmental Assessments

4.1 Available Reports

Previous environmental assessment reports are available for the existing and proposed sites. The reports are listed in **Table 4.1** (reports for the existing factory site) and **Table 4.2** (reports for the proposed factory site). The report findings are summarised in the table following this (**Table 4.3** for the existing site and **Table 4.4** for the proposed site).

There are 10 previous reports for the site – these are too numerous to include as an appendix although are available as an addendum file, if required.

Table 4.1 Previous Environmental Assessments – Existing Site

| Report | Instructing Party | Project Reference | Date | Author | Comments |
|--|-----------------------------|-----------------------------|-------------|-----------------------------|--|
| PPC Application Site Report | Lafarge Plasterboard Ltd | 44382632/DR543 | 25/07/2005 | URS | Permit application report for existing factory site. |
| PPC Application Site Report Version 2 | Lafarge Plasterboard Ltd | No reference | 01/12/2011 | Lafarge Plasterboard Ltd | Operational Phase Site Condition Report. |
| Ground Investigation Report | Siniat | R/13081/001 | 25/03/2013 | Hydrock | Site Investigation of SE part of existing permit site. |
| Phase 1 & 2 Environmental Appraisal | Siniat | R/13081/002 | 18/10/2013 | Hydrock | Site Investigation of SE part of existing permit site. |
| Site Condition Report | Siniat | 47066810/ LORP0002 | 01/03/2014 | URS | Site Condition Report for original EP Variation Application. |
| Site Condition Report | ETEX Group | 60613135-ACM- RP-E-001-A | 01/03/2021 | Aecom | Intermediate soil / groundwater monitoring for permit compliance, comparison to baseline data. |

Table 4.2 Previous Environmental Assessments – Proposed Site

| Report | Instructing Party | Project Reference | Date | Author | Comments |
|--|-------------------------------|--------------------------|-------------|----------------------|---|
| Phase II Geo-Environmental Investigation Report | Etex Building Performance Ltd | SLR/AC/43368-Rp005 | 17/08/2020 | Alan Wood & Partners | Site investigation of proposed new plasterboard plant site. |
| Phase III Remediation Strategy | Etex Building Performance Ltd | BL4-AWP-00-XX-RP-C-00010 | 08/10/2020 | Alan Wood & Partners | Strategy for managing material streams during remediation and discovery strategy for the site remediation works. |
| Piling Risk Assessment | Etex Building Performance Ltd | BL4-AWP-00-XX-RP-C-00009 | 21/09/2021 | Alan Wood & Partners | Risk Assessment for piling through made ground at proposed new plasterboard site. Includes risk assessment for residual coal after remediation. |
| Completion Report | Bristol Port Company | C449.BRI_CR | 11/10/2021 | Soilfix | Record of coal remediation from proposed site. |

Table 4.3 Previous Environmental Assessment Summary – Existing Site

| Report Title | Work Scope | Report Description | Ground Conditions | Summary |
|--|--|---|---|---|
| PPC Application Site Report, July 2005, URS | Permit application site report. 4 boreholes to depths of up to 5m, using percussive drilling. Each location was installed with a groundwater monitoring well with 50mm internal diameter uPVC slotted well. | Permit application report for existing factory site. Document to collect sufficient data on the potentially polluting substances. | Concrete or asphalt to a thickness of up to 0.20m. Underlying the concrete or asphalt surface, the made ground was slightly sandy, fine to coarse, angular to sub-angular gravel of limestone / gravelly and/or sandy clay to a maximum depth of 2.3 m bgl. Red brown, grey brown and grey clay, gravelly clay, sandy clay deposits in most locations up to the maximum investigated depth of 5.0 m bgl. Groundwater was encountered within the shallow clay deposits at depths between 2.2 m bgl to 2.9 m bgl in three of the four boreholes, one borehole was dry. | Report identified potential sources, pathways and receptors in a summary CSM. |
| PPC Application Site Report Version 2, Dec 2011, Lafarge Plasterboard | No new information. | Updated version of previous report. | No new information. | Conditions unchanged from previous. |
| Ground Investigation Report, March 2013, Hydrock | Site investigation comprising six trial pits and five cone penetration tests. | Site investigation and risk assessment. | Ground conditions were 2.1 – 3.4 metres of made ground, over tidal flat deposits up to 15.5m thick; overlying Mercia Mudstone. Groundwater not monitored. | No environmental risks identified from soil or groundwater contamination. |
| Phase 1 & 2 Environmental Appraisal, October 2013, Hydrock | Desk Study & Phase 2 report on the above scope of work. | Desk Study, site investigation and risk assessment. | | |

| Report Title | Work Scope | Report Description | Ground Conditions | Summary |
|---|---|--|---|---|
| Site Condition Report, March 2014, URS | Site Condition Report for EP Variation Application | Produced to accompany a variation for changes to the Siniat Environmental Permit (ref. XP3036SZ) for an expansion of the existing installation, which includes an extension of the existing installation boundary. | No new information. | N/A |
| Site Condition Report March 2021 AECOM | Site investigation comprising 4 no. boreholes to 5m using percussion driven window sampling, Installation of 3 no. monitoring wells. 7 no. hand dug pits. | Intermediate soil / groundwater monitoring for permit compliance, comparison to baseline data | Ground conditions not given. No visual or olfactory evidence of contamination recorded during sampling. | 2020 data is consistent with the baseline conditions. |

Table 4.4 Previous Environmental Assessment Summary – Proposed Site

| Report Title | Work Scope | Report Description | Ground Conditions | Summary |
|---|--|---|--|--|
| Phase II Geo-Environmental Investigation Report, Aug 2020, AWP | Site Investigation comprising: 19 windowless samples boreholes, 14 cable percussive boreholes, 19 machine excavated trial pits, 12 plate load tests, two soakaway tests | Geotechnical and environmental site investigation of proposed new plasterboard plant site. | <p>Made Ground: Up to 3.8m thick, fine and coarse grained. Anthropogenic fragments including brick, plastic, rebar, pipe lagging, and terracotta pipework. Topsoil in soft landscaped areas.</p> <p>Re-worked natural ground: Typically comprised firm to stiff clayey/silty sandy, gravelly, clay/silt, and less frequently clayey gravelly sands.</p> <p>Natural Ground: orange brown organic sandy clay/silt with pockets of organic material / peat.</p> | Testing included soil and groundwater samples for metals, PAH, TPH and VOC – See Table 4.5 below . No exceedances of commercial GAC in soil and no significant controlled waters risks identified. No specific remediation measures required. Gas monitoring was ongoing and will be reported at a future date. Recommended a Piling Risk Assessment. |
| Phase III Remediation Strategy, Oct 2020, AWP | Remediation Strategy report | Strategy for managing material streams during remediation and discovery strategy for the proposed site remediation works. | Described from previous assessment with the addition of stockpiles resulting from processed materials following coal extraction. Included ground gas data confirming site as CS2 and radon measures required. | A validation strategy was included. |
| Piling Risk Assessment, September 2021, AWP | Qualitative risk assessment for piling risk to groundwater | Risk Assessment for piling through made ground at proposed new plasterboard site. | Not applicable. | Concluded that piled foundations unlikely to pose a significant risk to groundwater. |
| Completion Report, October 2021, Soilfix | Remediation completion report | Record of coal remediation from proposed site. | Not Given | Coal remediated from soils to a point that allowed the surrender of the coal storage permit for the site (North Somerset Council Environmental Permit EP/B/BBHT1/11). |

4.2 Summary of Findings

Off Site (Existing Site)

The first records relate to the initial PPC application dated 2005 which identified the sources, pathways and receptors associated with the plasterboard manufacture process. Since that time the site has been re-assessed on three occasions and the findings have been that there were no significant changes from the baseline and / or significant contaminant concentrations were not detected.

On Site (Proposed Site)

The 2020 Phase 2 report tested a total of 48 soil samples for a contaminant suite including metals, polyaromatic hydrocarbons (PAHs), Total Petroleum Hydrocarbons (TPH) and asbestos, and six groundwater samples for metals, PAHs, TPH and Volatile Organic Compounds (VOC). A summary of the contaminant concentration ranges gleaned from the 2020 Phase 2 report is in **Table 4.5**.

Table 4.5 2020 Site Investigation Contamination Summary

| Contaminant | Max. Concentration – Soil (mg/kg unless stated) | Max Concentration – Groundwater (µg/l unless stated) |
|--------------|--|---|
| Arsenic | 23 | 4.45 |
| Boron | 7.7 | 1501 |
| Cadmium | 2.5 | 0.28 |
| Chromium III | 48 | <0.2 |
| Chromium IV | <1 | <10 |
| Copper | 42 | 34.8 |
| Lead | 78 | 0.6 |
| Mercury | <0.5 | <0.008 |
| Nickel | 42 | 12.7 |
| Selenium | 2.4 | 5.28 |
| Zinc | 311 | 10 |
| pH | 6.8 – 9.0 (units) | 7.4 – 8.1 (units) |
| Sulphate | 7142 | 1001 (mg/l) |
| Sulphide | <10 | <100 |
| PAH (total) | 2.3 | <0.16 |
| TPH (total) | 444 | 120 |
| VOC | No data | <1 |

The above concentrations of metals, PAH, TPH in soil and metals, PAH, TPH and VOC in groundwater are among the most recent chemical testing data for the site.

The Soilfix Completion Report found that residual coal (assumed to be a maximum of 5cm thickness locally) was demonstrated to not present an unacceptable risk to end use receptors as soil data from 23 samples identified low concentrations of contaminants in the made ground following remediation.

The site is undergoing redevelopment under planning permission granted by North Somerset Council. Site contaminated land conditions (no. 11 of permission 21/P/3008/AOC) were discharged by North Somerset Council in December 2021.

The proposed site has undergone a phased process of investigation, remediation and verification to surrender the environmental permit for the coal stock yard operation and for the purpose of discharging planning conditions relating to contaminated land.

4.2.1 Potential Historic Contaminants

Potential historic contaminants are not considered to be significant or widespread, nevertheless localised concentrations of the contaminants listed below in **Table 4.6** may be encountered.

Table 4.6 Potential Historic Contaminants

| Potential Contaminant | Further Detail |
|---|--|
| Petroleum Hydrocarbons | Fuel spills, fuel storage, handling and transportation. |
| Polycyclic aromatic hydrocarbons (PAHs) | Combustion, ash burial and recycling made ground. |
| Metals | Historic use of metals in a variety of processes and the recycling of made ground. |

4.3 Conclusion from Previous Reports Review

The proposed site was first developed as a coal stock yard in the 1990s and was undeveloped land before this. Evidence of historic contamination is limited to this past use as a coal stock yard and from any waste materials that may have been deposited at the site. Contaminant concentrations from the 2020 site investigation could serve as a baseline of site conditions.

The adjacent plasterboard factory site has not reported significant incidents, losses to ground or deterioration in ground conditions since it was first assessed in 2005.

Further assessment and remediation backed up by risk assessment concluded that the residual coal layer from the site's previous permitted activity was unlikely to pose an unacceptable risk to human health and controlled waters receptors.

5. Site Pollution Likelihood

5.1 Polluting Substances / Relevant Activities

Key substances used at the existing facility listed in **Appendix E**. These are all expected to be used at the proposed facility extension, albeit at different quantities (i.e. overall there will be an anticipated increase across the original and new facility), and are used, stored or form part of waste by-products. These form the PPS which, as far as chemical testing is concerned, include:

- TPH
- PAH
- VOC**
- Semi Volatile Organic Compounds (SVOC**)
- Acetates Suite**
- Glycol Suite**
- pH
- Sulphate*
- Sulphide*
- Phosphate*
- Sodium*
- Calcium*
- Magnesium*
- Aluminium*
- Potassium*
- Zinc

**typically not considered harmful, however can be useful in characterising past, current and future land quality, if characterisation is deemed required.*

***for normal ground conditions these are most likely to be below chemical laboratory method detection limits, as are specialist suites for less common contaminants.*

5.2 Preventative Measures

The site operates dedicated teams in control of maintaining the facility and there are planned preventative maintenance on critical infrastructure which is essential due to the 24 hour operation of the plant.

Site is accredited to ISO:14001 (Environmental Management Systems (EMS)), ISO:9001 (Quality Management) and ISO:45001 (Health and Safety Management) systems of operation. EBP has procedures in place for responding to leaks and spills and a dedicated software platform to help them manage, communicate and close out problems such as spills in a timely manner.

Following incidents, improvements are made to the site infrastructure (e.g. replacing hard surfaces, drip trays at fill points) and changes made to operating procedures (e.g. changes to material unloading procedure) to ensure continuous improvement and learning from incidents.

Site procedures categorise spills according to their severity and substance and ensures that adequate spill kits are available. Site personnel are trained in accordance with the procedures, which undergo continuous improvement and will be carried over into the proposed facility.

All the above will be replicated for the new facility.

5.3 Pollution Likelihood Assessment

Based on this assessment there is a low likelihood of land pollution from the proposed installation under normal operating conditions with the present management systems and operating procedures.

The circumstances under which emissions may occur include accidents and / or incidents and routine operations. There are no planned emissions from the site, as the future proposed processes operate in

a designed closed loop system, with spilled substances cleaned up, and waste products disposed off-site for recycling/re-processing (where possible) using licensed waste management contractors.

Existing procedures under the EMS outline the site's procedures to minimise the frequency of accidents or incidents occurring. The procedures also outline procedures in place to minimise the risks in the event of an accident or incident occurring. These are summarised below (with statements about the current facility being adequate for the future facility due to the replication of procedures and positive culture):

- All aspects of the site operations have been assessed for significance and an appropriate environmental risk assessment has been carried out.
- Regular inspections of impermeable surfaces, tanks, bunds and pipe work are carried out and repairs and maintenance undertaken as necessary.
- All plant and equipment is inspected and maintained in accordance with legal requirements and the manufacturer's recommendations and maintenance records are kept by site management.
- Any complaints received about site activities are recorded and investigated in accordance with complaints log and investigation procedure.
- A mechanism is in place to fully investigate any environmental incidents and non-conformances in both normal and abnormal conditions and to record any remedial actions that might be taken and how to prevent re-occurrence.
- A site-specific emergency contingency and accident management plan are in place.
- All relevant staff receive environmental training relating to environmental best practice on induction and are required to follow safe working procedures.

The site has registers across the mechanical and operational aspects of their plant and there is planned preventative maintenance on all the equipment. The frequency of the checks are risk-based, related to the hazardous nature or significance of an issue developing, e.g. some checks may be daily or weekly, whereas others may be annual.

Given the management procedures in place at the site, absence of past incidents and the closed-loop systems in place, potential pollutant releases as a result of routine operations and as a result of accident and/or incident are considered to represent a **very low risk** for the facility in terms of contaminating land or groundwater. Further assessment is undertaken in Section 6.

6. Environmental Risk Assessment

The risk evaluation is centred around the Conceptual Site Model, which considers the potential sources, pathways and the receptors of concern for this SCR. Each of these is covered in Sections 6.1 to 6.3.

6.1 Potential Sources

Following the desk based research the following potential sources have been collated and used to update the conceptual site model.

- Potential spillage of substances on unsurfaced parts of the installation, seepage through hardstanding.
- Product losses when loading / unloading, transferring through pipework or drums.
- Loss of substances in storage tanks,
- Hazardous materials storage.

6.2 Receptors

Under this Application SCR, the receptors of concern under EPR are land, groundwater and surface water. The site is underlain by Unproductive strata (Superficial) and a Secondary B Aquifer (bedrock / solid geology). The nearest groundwater abstractions are for the existing plasterboard facility.

The permitted installation will consist almost entirely of hardstanding (i.e. negligible softstanding) with dedicated drainage systems and pollution control measures. All potentially hazardous substances used are stored in dedicated stores in appropriate labelled containers.

Applying the existing management procedures to the proposed site will mitigate the possibility of infiltration to land. Consequently, there should be no plausible leaching and migration potential to shallow groundwater and nearby surface waters.

6.3 Conceptual Site Model and Risk Evaluation

The Conceptual Site Model and Risk Evaluation is presented in **Table 6.2**. The risk classification rationale is explained in **Appendix F**.

Table 6.2 Conceptual Site Model and Summary of Risk Evaluation

| Source | Receptor | Pathway | Risk Management Techniques | Probability of Exposure | Consequence | Overall Risk |
|--------------------|---|---|---|-------------------------|---|--|
| Discharge to Land: | Soil Groundwater – Borehole abstractions, Unproductive strata Surface Water (Rhyne, pond, receiving rivers) | Release to ground during application, transfer, storage and disposal, e.g. container failure, human error | Modern purpose build facility with hard standing and discrete drainage. Environmental management systems to control material storage and to manage leaks and spills. Containment and hardstanding inspections included within environmental management procedures. Waste is removed from site via licensed carriers to permitted facilities. | Low Likelihood | Medium <ul style="list-style-type: none"> • Localised contamination of soil. • Release of contaminants into surface water. • Groundwater contamination entering on-site borehole process water. | Low Risk <ul style="list-style-type: none"> • Site surfacing is completely sealed with concrete hardstanding. • Discrete drainage and pollution prevention measures. • The closed system is maintained and supported by management procedures. |

6.4 Conclusion

The extension of the existing permitted process has an overall assessment of low risk. This is on the basis of continued use of purpose-built facilities, using closed-loop systems with trained and competent personnel who have been trained in site procedures.

As described in Section 2, this SCR is intended to be a live document that is updated through the life of the permit and at surrender (i.e. Sections 4.0 - 10.0 of the SCR template).

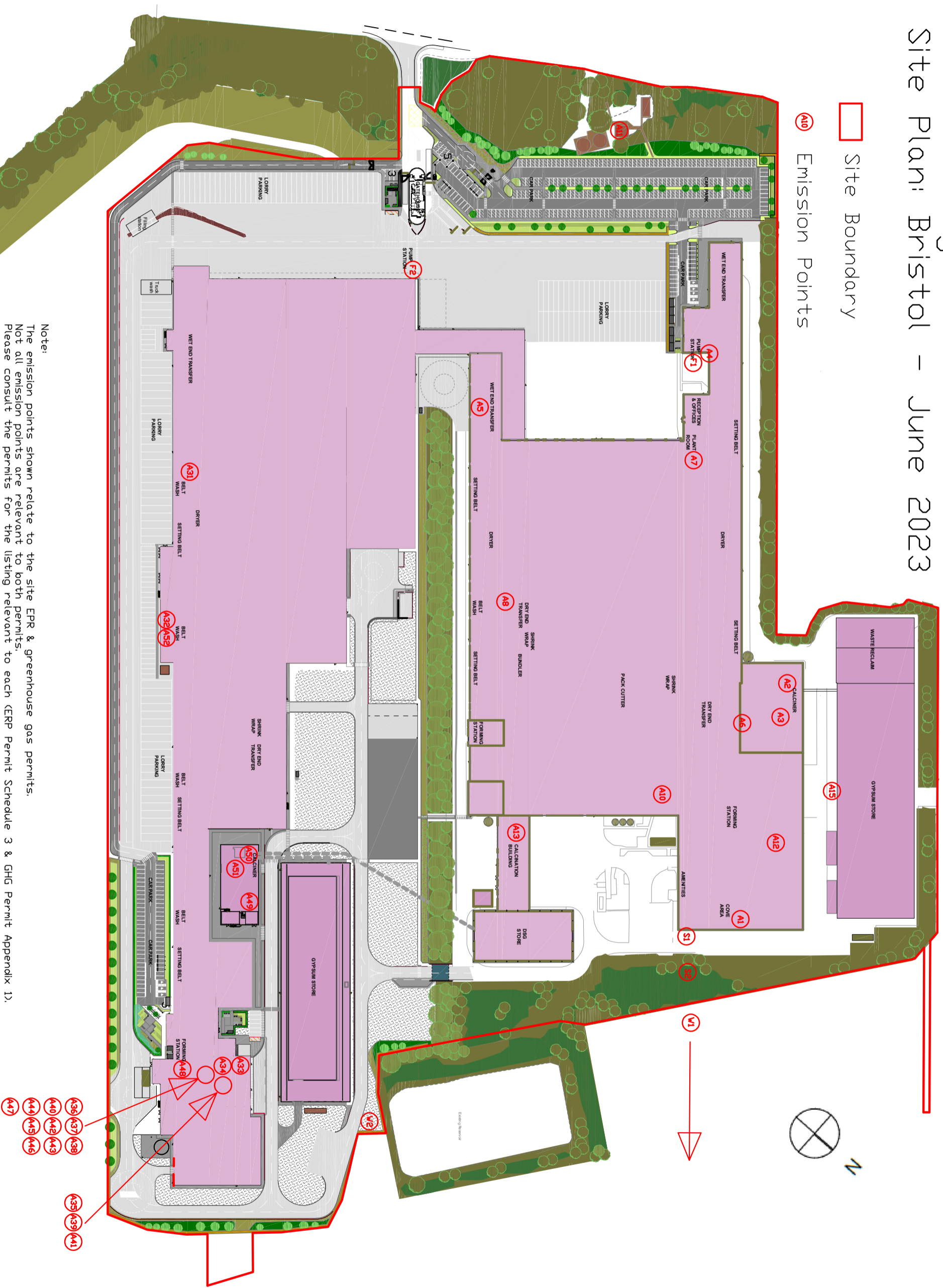
The current facility operates to stringent standards with minimal use of PPS and on the basis that the new facility will adopt similar practices with the same PPS, the overall risk is evaluated as low. Thus, it is considered optional to quantify the levels of pre-existing contamination at the site with new site investigation information, i.e. to avoid potentially being held responsible for addressing any contamination found at the site at permit surrender.

6.5 Recommendation

A record of potential contamination exists from the investigation, remediation and verification in 2020/2021. The final stages of groundwork before the construction of buildings and hardstanding may present an opportunity to obtain samples of soils and/or groundwater to supplement the existing information. If this opportunity arose a simple *Sampling and Analysis Plan* would allow for the appropriate data collection to create a more tailored baseline, however this is considered **optional** owing to the low risk and existence of some soil and groundwater data from previous reports that could serve as a baseline of site conditions. *On the latter, it should be noted that only the PPS of zinc, PAH and TPH are included in this (see Table 4.5), i.e. some PPS were not tested for, as they are not typical contaminants that may be tested as part of development-led ground investigation (also see Section 5.1).*

Appendix A – Figures

Etex Building Performance Ltd Site Plan: Bristol - June 2023



Note:
The emission points shown relate to the site EPR & greenhouse gas permits.
Not all emission points are relevant to both permits.
Please consult the permits for the listing relevant to each (ERP Permit Schedule 3 & GHG Permit Appendix 1).

- A36 A37 A38
- A40 A42 A43
- A44 A45 A46
- A47
- A39 A39 A41

Appendix B – Previous Groundsure Report

Bristol, Extex Bristol, Redland Ave, Bristol, BS20 0FB,

Order Details

Date: 23/03/2020
Your ref: EMS_601901_804979
Our Ref: EMS-601901_804979
Client: emapsite

Site Details

Location: 350823 176990
Area: 31.58 ha



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

| Page | Section | Past land use | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|-----------|------------|--|---------|-------|---------|----------|-----------|
| 13 | 1.1 | <u>Historical industrial land uses</u> | 4 | 4 | 5 | 33 | - |
| 15 | 1.2 | <u>Historical tanks</u> | 3 | 2 | 11 | 5 | - |
| 16 | 1.3 | <u>Historical energy features</u> | 1 | 1 | 2 | 2 | - |
| 17 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 17 | 1.5 | Historical garages | 0 | 0 | 0 | 0 | - |
| 17 | 1.6 | Historical military land | 0 | 0 | 0 | 0 | - |
| Page | Section | Past land use - un-grouped | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 18 | 2.1 | <u>Historical industrial land uses</u> | 5 | 6 | 7 | 48 | - |
| 21 | 2.2 | <u>Historical tanks</u> | 6 | 3 | 22 | 10 | - |
| 23 | 2.3 | <u>Historical energy features</u> | 3 | 4 | 4 | 3 | - |
| 23 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 24 | 2.5 | Historical garages | 0 | 0 | 0 | 0 | - |
| Page | Section | Waste and landfill | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 25 | 3.1 | Active or recent landfill | 0 | 0 | 0 | 0 | - |
| 25 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 0 | - |
| 26 | 3.3 | Historical landfill (LA/mapping records) | 0 | 0 | 0 | 0 | - |
| 26 | 3.4 | <u>Historical landfill (EA/NRW records)</u> | 0 | 0 | 1 | 1 | - |
| 26 | 3.5 | Historical waste sites | 0 | 0 | 0 | 0 | - |
| 27 | 3.6 | Licensed waste sites | 0 | 0 | 0 | 0 | - |
| 27 | 3.7 | <u>Waste exemptions</u> | 0 | 0 | 2 | 4 | - |
| Page | Section | Current industrial land use | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 28 | 4.1 | <u>Recent industrial land uses</u> | 4 | 3 | 25 | - | - |
| 30 | 4.2 | Current or recent petrol stations | 0 | 0 | 0 | 0 | - |
| 31 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 31 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 31 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |



| 31 | 4.6 | <u>Control of Major Accident Hazards (COMAH)</u> | 1 | 0 | 0 | 0 | - |
|-----------|-------------|--|--------------------------|-------|---------|----------|-----------|
| 32 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |
| 32 | 4.8 | <u>Hazardous substance storage/usage</u> | 0 | 0 | 0 | 1 | - |
| 32 | 4.9 | Historical licensed industrial activities (IPC) | 0 | 0 | 0 | 0 | - |
| 32 | 4.10 | <u>Licensed industrial activities (Part A(1))</u> | 21 | 0 | 0 | 0 | - |
| 36 | 4.11 | <u>Licensed pollutant release (Part A(2)/B)</u> | 3 | 0 | 1 | 3 | - |
| 37 | 4.12 | Radioactive Substance Authorisations | 0 | 0 | 0 | 0 | - |
| 37 | 4.13 | <u>Licensed Discharges to controlled waters</u> | 1 | 0 | 10 | 14 | - |
| 41 | 4.14 | Pollutant release to surface waters (Red List) | 0 | 0 | 0 | 0 | - |
| 41 | 4.15 | Pollutant release to public sewer | 0 | 0 | 0 | 0 | - |
| 41 | 4.16 | List 1 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 42 | 4.17 | List 2 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 42 | 4.18 | <u>Pollution Incidents (EA/NRW)</u> | 1 | 1 | 0 | 0 | - |
| 42 | 4.19 | <u>Pollution inventory substances</u> | 4 | 0 | 0 | 0 | - |
| 44 | 4.20 | <u>Pollution inventory waste transfers</u> | 1 | 0 | 0 | 0 | - |
| 48 | 4.21 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |
| Page | Section | Hydrogeology | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 49 | 5.1 | <u>Superficial aquifer</u> | Identified (within 500m) | | | | |
| 51 | 5.2 | <u>Bedrock aquifer</u> | Identified (within 500m) | | | | |
| 53 | 5.3 | <u>Groundwater vulnerability</u> | Identified (within 50m) | | | | |
| 55 | 5.4 | <u>Groundwater vulnerability- soluble rock risk</u> | Identified (within 0m) | | | | |
| 56 | 5.5 | Groundwater vulnerability- local information | None (within 0m) | | | | |
| 57 | 5.6 | <u>Groundwater abstractions</u> | 6 | 0 | 0 | 0 | 8 |
| 61 | 5.7 | Surface water abstractions | 0 | 0 | 0 | 0 | 0 |
| 61 | 5.8 | Potable abstractions | 0 | 0 | 0 | 0 | 0 |
| 61 | 5.9 | Source Protection Zones | 0 | 0 | 0 | 0 | - |
| 62 | 5.10 | Source Protection Zones (confined aquifer) | 0 | 0 | 0 | 0 | - |
| Page | Section | Hydrology | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 63 | 6.1 | <u>Water Network (OS MasterMap)</u> | 16 | 13 | 14 | - | - |

| 67 | 6.2 | <u>Surface water features</u> | 1 | 8 | 7 | - | - |
|------|---------|--|--|-------|---------|----------|-----------|
| 67 | 6.3 | <u>WFD Surface water body catchments</u> | 2 | - | - | - | - |
| 68 | 6.4 | <u>WFD Surface water bodies</u> | 0 | 1 | 1 | - | - |
| 68 | 6.5 | <u>WFD Groundwater bodies</u> | 1 | - | - | - | - |
| Page | Section | River and coastal flooding | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 69 | 7.1 | <u>Risk of Flooding from Rivers and Sea (RoFRaS)</u> | High (within 50m) | | | | |
| 70 | 7.2 | <u>Historical Flood Events</u> | 0 | 0 | 1 | - | - |
| 70 | 7.3 | <u>Flood Defences</u> | 0 | 0 | 1 | - | - |
| 70 | 7.4 | <u>Areas Benefiting from Flood Defences</u> | 0 | 1 | 0 | - | - |
| 71 | 7.5 | Flood Storage Areas | 0 | 0 | 0 | - | - |
| 72 | 7.6 | <u>Flood Zone 2</u> | Identified (within 50m) | | | | |
| 73 | 7.7 | <u>Flood Zone 3</u> | Identified (within 50m) | | | | |
| Page | Section | Surface water flooding | | | | | |
| 74 | 8.1 | <u>Surface water flooding</u> | 1 in 30 year, 0.3m - 1.0m (within 50m) | | | | |
| Page | Section | Groundwater flooding | | | | | |
| 76 | 9.1 | <u>Groundwater flooding</u> | Moderate (within 50m) | | | | |
| Page | Section | Environmental designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 77 | 10.1 | <u>Sites of Special Scientific Interest (SSSI)</u> | 0 | 0 | 1 | 1 | 2 |
| 78 | 10.2 | <u>Conserved wetland sites (Ramsar sites)</u> | 0 | 0 | 2 | 2 | 2 |
| 85 | 10.3 | <u>Special Areas of Conservation (SAC)</u> | 0 | 0 | 2 | 0 | 0 |
| 85 | 10.4 | <u>Special Protection Areas (SPA)</u> | 0 | 0 | 4 | 2 | 4 |
| 87 | 10.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 87 | 10.6 | <u>Local Nature Reserves (LNR)</u> | 0 | 0 | 0 | 0 | 10 |
| 88 | 10.7 | <u>Designated Ancient Woodland</u> | 0 | 0 | 0 | 0 | 8 |
| 88 | 10.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |
| 89 | 10.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |
| 89 | 10.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| 89 | 10.11 | <u>Green Belt</u> | 0 | 0 | 0 | 0 | 5 |
| 89 | 10.12 | Proposed Ramsar sites | 0 | 0 | 0 | 0 | 0 |

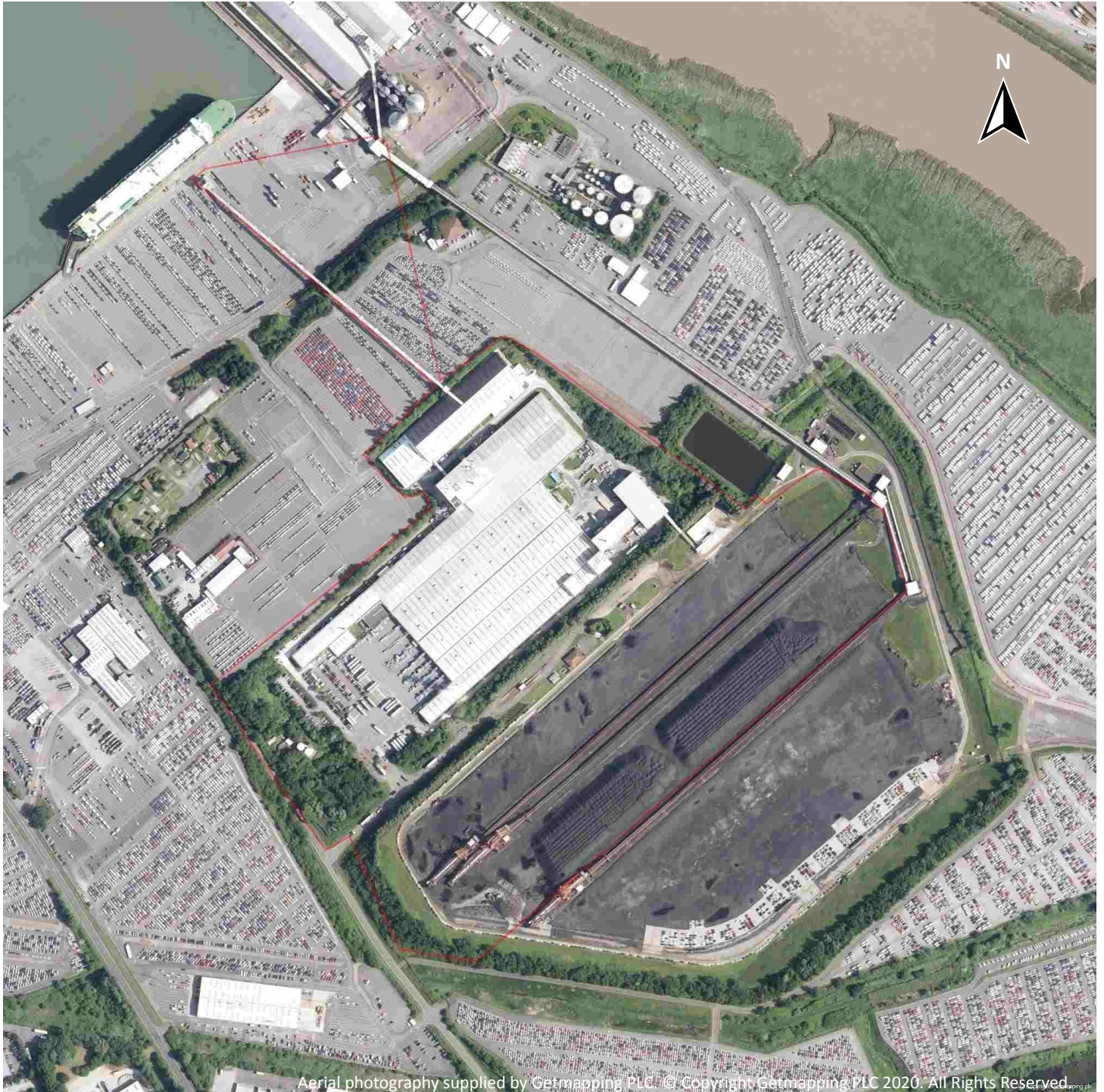


| 90 | 10.13 | Possible Special Areas of Conservation (pSAC) | 0 | 0 | 0 | 0 | 0 |
|------------|--------------|--|--------------------------|-------|---------|----------|-----------|
| 90 | 10.14 | Potential Special Protection Areas (pSPA) | 0 | 0 | 0 | 0 | 0 |
| 90 | 10.15 | Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 |
| 90 | 10.16 | Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 |
| 91 | 10.17 | <u>SSSI Impact Risk Zones</u> | 4 | - | - | - | - |
| 95 | 10.18 | <u>SSSI Units</u> | 0 | 0 | 1 | 1 | 4 |
| Page | Section | Visual and cultural designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 100 | 11.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 100 | 11.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 100 | 11.3 | National Parks | 0 | 0 | 0 | - | - |
| 100 | 11.4 | Listed Buildings | 0 | 0 | 0 | - | - |
| 101 | 11.5 | Conservation Areas | 0 | 0 | 0 | - | - |
| 101 | 11.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 101 | 11.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | Agricultural designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 102 | 12.1 | <u>Agricultural Land Classification</u> | Grade 5 (within 250m) | | | | |
| 103 | 12.2 | <u>Open Access Land</u> | 0 | 0 | 4 | - | - |
| 104 | 12.3 | Tree Felling Licences | 0 | 0 | 0 | - | - |
| 104 | 12.4 | Environmental Stewardship Schemes | 0 | 0 | 0 | - | - |
| 104 | 12.5 | Countryside Stewardship Schemes | 0 | 0 | 0 | - | - |
| Page | Section | Habitat designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 105 | 13.1 | <u>Priority Habitat Inventory</u> | 25 | 7 | 13 | - | - |
| 107 | 13.2 | <u>Habitat Networks</u> | 1 | 0 | 16 | - | - |
| 108 | 13.3 | Open Mosaic Habitat | 0 | 0 | 0 | - | - |
| 108 | 13.4 | Limestone Pavement Orders | 0 | 0 | 0 | - | - |
| Page | Section | Geology 1:10,000 scale | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 109 | 14.1 | <u>10k Availability</u> | Identified (within 500m) | | | | |
| 110 | 14.2 | <u>Artificial and made ground (10k)</u> | 4 | 1 | 0 | 3 | - |
| 112 | 14.3 | <u>Superficial geology (10k)</u> | 4 | 0 | 0 | 1 | - |

| 113 | 14.4 | Landslip (10k) | 0 | 0 | 0 | 0 | - |
|------------|-------------|--|--------------------------|-------|---------|----------|-----------|
| 114 | 14.5 | <u>Bedrock geology (10k)</u> | 1 | 0 | 0 | 1 | - |
| 115 | 14.6 | Bedrock faults and other linear features (10k) | 0 | 0 | 0 | 0 | - |
| Page | Section | Geology 1:50,000 scale | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 116 | 15.1 | <u>50k Availability</u> | Identified (within 500m) | | | | |
| 117 | 15.2 | <u>Artificial and made ground (50k)</u> | 4 | 1 | 0 | 1 | - |
| 118 | 15.3 | <u>Artificial ground permeability (50k)</u> | 2 | 0 | - | - | - |
| 119 | 15.4 | <u>Superficial geology (50k)</u> | 4 | 0 | 1 | 0 | - |
| 120 | 15.5 | <u>Superficial permeability (50k)</u> | Identified (within 50m) | | | | |
| 120 | 15.6 | Landslip (50k) | 0 | 0 | 0 | 0 | - |
| 120 | 15.7 | Landslip permeability (50k) | None (within 50m) | | | | |
| 121 | 15.8 | <u>Bedrock geology (50k)</u> | 1 | 0 | 0 | 0 | - |
| 122 | 15.9 | <u>Bedrock permeability (50k)</u> | Identified (within 50m) | | | | |
| 122 | 15.10 | Bedrock faults and other linear features (50k) | 0 | 0 | 0 | 0 | - |
| Page | Section | Boreholes | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 123 | 16.1 | <u>BGS Boreholes</u> | 5 | 0 | 15 | - | - |
| Page | Section | Natural ground subsidence | | | | | |
| 125 | 17.1 | <u>Shrink swell clays</u> | Low (within 50m) | | | | |
| 127 | 17.2 | <u>Running sands</u> | Moderate (within 50m) | | | | |
| 129 | 17.3 | <u>Compressible deposits</u> | Moderate (within 50m) | | | | |
| 131 | 17.4 | <u>Collapsible deposits</u> | Very low (within 50m) | | | | |
| 132 | 17.5 | <u>Landslides</u> | Low (within 50m) | | | | |
| 134 | 17.6 | <u>Ground dissolution of soluble rocks</u> | Negligible (within 50m) | | | | |
| Page | Section | Mining, ground workings and natural cavities | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 136 | 18.1 | Natural cavities | 0 | 0 | 0 | 0 | - |
| 137 | 18.2 | BritPits | 0 | 0 | 0 | 0 | - |
| 137 | 18.3 | <u>Surface ground workings</u> | 25 | 12 | 19 | - | - |
| 139 | 18.4 | <u>Underground workings</u> | 0 | 0 | 0 | 0 | 1 |
| 139 | 18.5 | Historical Mineral Planning Areas | 0 | 0 | 0 | 0 | - |

| 140 | 18.6 | Non-coal mining | 0 | 0 | 0 | 0 | 0 |
|------------|-------------|--|-------------------------------|-------|---------|----------|-----------|
| 140 | 18.7 | Mining cavities | 0 | 0 | 0 | 0 | 0 |
| 140 | 18.8 | JPB mining areas | None (within 0m) | | | | |
| 140 | 18.9 | Coal mining | None (within 0m) | | | | |
| 140 | 18.10 | Brine areas | None (within 0m) | | | | |
| 141 | 18.11 | Gypsum areas | None (within 0m) | | | | |
| 141 | 18.12 | Tin mining | None (within 0m) | | | | |
| 141 | 18.13 | Clay mining | None (within 0m) | | | | |
| Page | Section | Radon | | | | | |
| 142 | 19.1 | Radon | Between 3% and 5% (within 0m) | | | | |
| Page | Section | Soil chemistry | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 144 | 20.1 | BGS Estimated Background Soil Chemistry | 18 | 4 | - | - | - |
| 145 | 20.2 | BGS Estimated Urban Soil Chemistry | 0 | 0 | - | - | - |
| 146 | 20.3 | BGS Measured Urban Soil Chemistry | 0 | 0 | - | - | - |
| Page | Section | Railway infrastructure and projects | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 147 | 21.1 | Underground railways (London) | 0 | 0 | 0 | - | - |
| 147 | 21.2 | Underground railways (Non-London) | 0 | 0 | 0 | - | - |
| 148 | 21.3 | Railway tunnels | 0 | 0 | 1 | - | - |
| 148 | 21.4 | Historical railway and tunnel features | 0 | 0 | 0 | - | - |
| 148 | 21.5 | Royal Mail tunnels | 0 | 0 | 0 | - | - |
| 148 | 21.6 | Historical railways | 0 | 0 | 0 | - | - |
| 149 | 21.7 | Railways | 1 | 1 | 11 | - | - |
| 149 | 21.8 | Crossrail 1 | 0 | 0 | 0 | 0 | - |
| 150 | 21.9 | Crossrail 2 | 0 | 0 | 0 | 0 | - |
| 150 | 21.10 | HS2 | 0 | 0 | 0 | 0 | - |

Recent aerial photograph



Capture Date: 14/06/2017

Site Area: 31.58ha



Recent site history - 2016 aerial photograph



Capture Date: 05/10/2016

Site Area: 31.58ha



Recent site history - 2009 aerial photograph



Capture Date: 01/06/2009

Site Area: 31.58ha



Recent site history - 2006 aerial photograph



Capture Date: 05/06/2006

Site Area: 31.58ha



Recent site history - 1999 aerial photograph

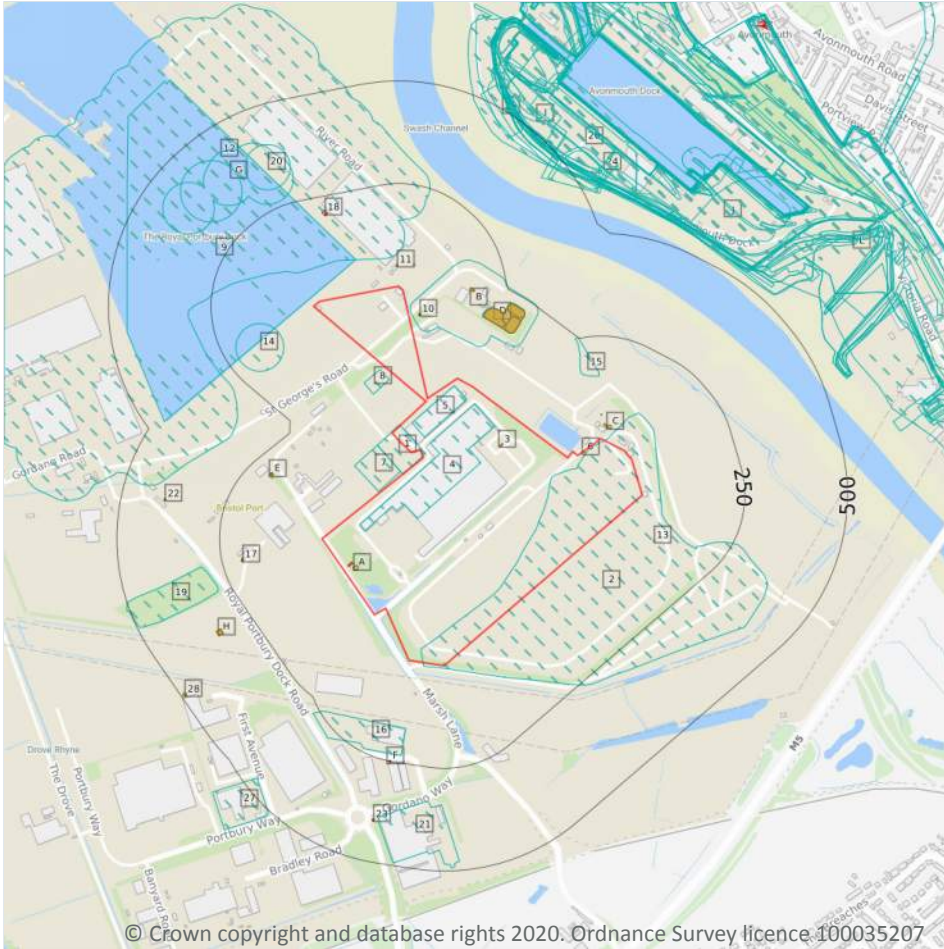


Capture Date: 24/07/1999

Site Area: 31.58ha



1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m **46**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

| ID | Location | Land use | Dates present | Group ID |
|----|----------|-------------------|---------------|----------|
| 1 | On site | Unspecified Works | 1979 | 1179006 |

| ID | Location | Land use | Dates present | Group ID |
|----|----------|-----------------------|---------------|----------|
| 2 | On site | Refuse Heap | 1979 - 1991 | 1237810 |
| 4 | On site | Unspecified Works | 1991 | 1179010 |
| 5 | On site | Unspecified Works | 1991 | 1179011 |
| 7 | 3m NW | Nursery | 1979 | 1179795 |
| B | 6m E | Unspecified Depot | 1991 | 1171330 |
| 8 | 13m SW | Unspecified Works | 1979 - 1991 | 1216212 |
| 9 | 21m NW | Dock | 1979 - 1991 | 1238986 |
| 12 | 72m N | Unspecified Wharf | 1921 | 1219918 |
| 14 | 107m SW | Quay | 1979 - 1991 | 1246172 |
| 15 | 152m N | Unspecified Pit | 1979 - 1991 | 1266809 |
| D | 159m NE | Unspecified Tanks | 1991 | 1168716 |
| 16 | 164m S | Unspecified Depot | 1991 | 1171333 |
| G | 262m NW | Unspecified Wharf | 1883 - 1970 | 1199235 |
| 19 | 280m SW | Unspecified Pit | 1979 - 1991 | 1236783 |
| 20 | 296m N | Quay | 1979 - 1991 | 1243772 |
| G | 300m NW | Unspecified Wharf | 1883 | 1234999 |
| 21 | 334m S | Unspecified Warehouse | 1991 | 1164584 |
| I | 434m NE | Dock | 1979 - 1991 | 1199327 |
| I | 434m NE | Railway Sidings | 1883 | 1221957 |
| 24 | 448m NE | Railway Sidings | 1887 | 1258352 |
| 25 | 448m NE | Unspecified Depot | 1979 | 1171331 |
| I | 452m NE | Dock | 1912 - 1920 | 1268439 |
| 26 | 464m NE | Unspecified Mill | 1970 - 1979 | 1237370 |
| 27 | 468m SW | Unspecified Works | 1991 | 1179008 |
| I | 473m NE | Dock | 1900 - 1902 | 1200425 |
| J | 473m NE | Railway Sidings | 1901 - 1902 | 1223700 |
| J | 473m NE | Railway Sidings | 1912 | 1224152 |
| I | 474m NE | Unspecified Dock | 1887 | 1218813 |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| J | 484m NE | Railway Sidings | 1900 | 1214860 |
| K | 485m NE | Railway Sidings | 1922 | 1191968 |
| K | 485m NE | Dock | 1922 | 1215633 |
| I | 488m NE | Dock | 1938 | 1209770 |
| J | 489m NE | Docks | 1970 | 1240437 |
| L | 489m NE | Railway Sidings | 1970 - 1979 | 1248934 |
| J | 492m NE | Unspecified Commercial/Industrial | 1921 | 1159056 |
| J | 492m NE | Railway Sidings | 1921 | 1197114 |
| J | 494m NE | Railway Sidings | 1920 | 1201723 |
| J | 494m NE | Railway Sidings | 1938 | 1272435 |
| I | 494m NE | Dock | 1912 | 1210796 |
| L | 494m NE | Railway Sidings | 1912 | 1251954 |
| 29 | 495m NE | Unspecified Mill | 1979 | 1251747 |
| I | 495m NE | Unspecified Dock | 1912 | 1220980 |
| J | 495m NE | Railway Sidings | 1912 | 1249991 |
| J | 498m NE | Unspecified Docks | 1955 | 1157147 |
| K | 498m NE | Compound Mill | 1955 | 1164384 |

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

| | |
|----------------------------|-----------|
| Records within 500m | 21 |
|----------------------------|-----------|

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

| ID | Location | Land use | Dates present | Group ID |
|----------|----------------|-------------------------|--------------------|---------------|
| 3 | On site | Unspecified Tank | 1989 - 1997 | 189877 |



| ID | Location | Land use | Dates present | Group ID |
|----------|----------------|-------------------------|--------------------|---------------|
| 6 | On site | Unspecified Tank | 1994 | 174033 |
| A | On site | Unspecified Tank | 1994 - 1997 | 178734 |
| C | 31m NE | Tanks | 1994 | 169495 |
| 11 | 49m N | Unspecified Tank | 1994 - 1997 | 190473 |
| C | 58m N | Unspecified Tank | 1994 | 174034 |
| 13 | 102m SE | Unspecified Tank | 1994 - 1997 | 187821 |
| D | 158m NE | Tanks | 1989 | 188544 |
| D | 159m NE | Tanks | 1994 - 1997 | 188153 |
| B | 160m E | Tanks | 1984 | 183421 |
| B | 160m E | Tanks | 1994 - 1997 | 182978 |
| D | 160m NE | Tanks | 1994 - 1997 | 185560 |
| E | 196m NW | Unspecified Tank | 1978 - 1985 | 185461 |
| E | 196m NW | Unspecified Tank | 1992 | 192192 |
| 17 | 197m W | Unspecified Tank | 1984 - 1997 | 186411 |
| D | 202m NE | Tanks | 1994 - 1997 | 181052 |
| H | 327m SW | Unspecified Tank | 1978 | 184209 |
| H | 329m SW | Unspecified Tank | 1984 - 1989 | 193963 |
| 22 | 392m W | Unspecified Tank | 1978 - 1989 | 192087 |
| 28 | 487m SW | Unspecified Tank | 1997 | 173993 |
| K | 499m NE | Unspecified Tank | 1952 | 174043 |

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

6

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**



| ID | Location | Land use | Dates present | Group ID |
|----------|----------------|------------------------|--------------------|---------------|
| A | On site | Gas Governor | 1991 - 1997 | 102848 |
| 10 | 24m E | Electricity Substation | 1978 - 1997 | 108904 |
| 18 | 202m N | Electricity Substation | 1994 - 1995 | 104931 |
| F | 248m S | Electricity Substation | 1994 - 1997 | 106610 |
| F | 251m S | Electricity Substation | 1991 | 113606 |
| 23 | 396m S | Gas Governor | 1991 - 1994 | 112203 |

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

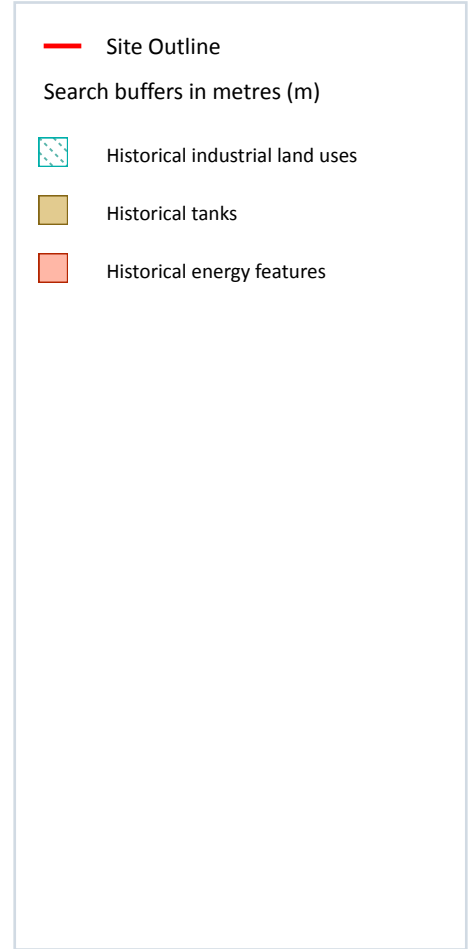
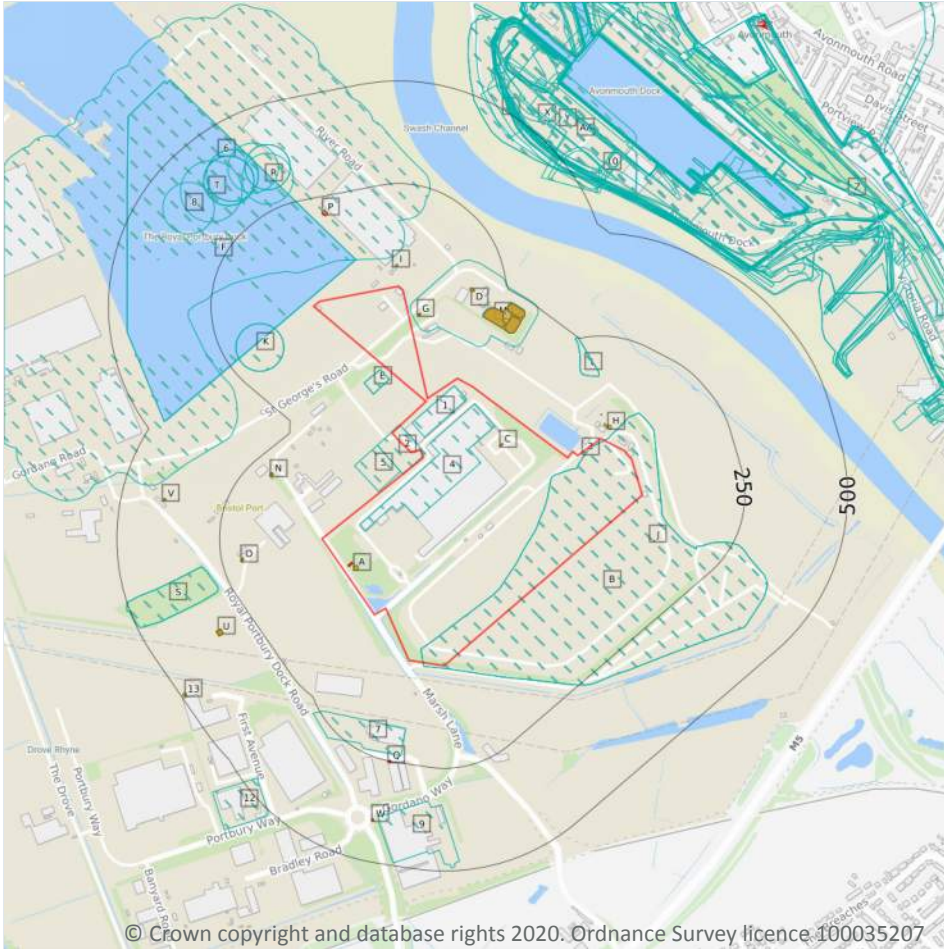
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

66

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

| ID | Location | Land Use | Date | Group ID |
|----|----------|-------------------|------|----------|
| 1 | On site | Unspecified Works | 1991 | 1179011 |
| 2 | On site | Unspecified Works | 1979 | 1179006 |
| 4 | On site | Unspecified Works | 1991 | 1179010 |

| ID | Location | Land Use | Date | Group ID |
|----------|----------------|--------------------|-------------|----------------|
| B | On site | Refuse Heap | 1991 | 1237810 |
| B | On site | Refuse Heap | 1979 | 1237810 |
| 5 | 3m NW | Nursery | 1979 | 1179795 |
| D | 6m E | Unspecified Depot | 1991 | 1171330 |
| E | 13m SW | Unspecified Works | 1991 | 1216212 |
| E | 13m SW | Unspecified Works | 1979 | 1216212 |
| F | 21m NW | Dock | 1991 | 1238986 |
| F | 21m NW | Dock | 1979 | 1238986 |
| 6 | 72m N | Unspecified Wharf | 1921 | 1219918 |
| K | 107m SW | Quay | 1991 | 1246172 |
| K | 107m SW | Quay | 1979 | 1246172 |
| L | 152m N | Unspecified Pit | 1991 | 1266809 |
| L | 152m N | Unspecified Pit | 1979 | 1266809 |
| M | 159m NE | Unspecified Tanks | 1991 | 1168716 |
| 7 | 164m S | Unspecified Depot | 1991 | 1171333 |
| R | 262m NW | Unspecified Wharf | 1970 | 1199235 |
| S | 280m SW | Unspecified Pit | 1991 | 1236783 |
| S | 280m SW | Unspecified Pit | 1979 | 1236783 |
| R | 296m N | Quay | 1991 | 1243772 |
| R | 296m N | Quay | 1979 | 1243772 |
| T | 300m NW | Unspecified Wharf | 1883 | 1234999 |
| R | 302m NW | Unspecified Wharf | 1883 | 1199235 |
| T | 307m NW | Unspecified Wharf | 1938 | 1199235 |
| T | 307m NW | Unspecified Wharf | 1912 | 1199235 |
| T | 307m NW | Unspecified Wharf | 1901 | 1199235 |
| T | 310m NW | Unspecified Wharf | 1912 | 1199235 |
| T | 310m NW | Unspecified Wharf | 1902 | 1199235 |
| 8 | 325m NW | Unspecified Wharf | 1922 | 1199235 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| 9 | 334m S | Unspecified Warehouse | 1991 | 1164584 |
| X | 434m NE | Dock | 1991 | 1199327 |
| X | 434m NE | Dock | 1979 | 1199327 |
| X | 434m NE | Railway Sidings | 1883 | 1221957 |
| 10 | 448m NE | Railway Sidings | 1887 | 1258352 |
| 11 | 448m NE | Unspecified Depot | 1979 | 1171331 |
| X | 452m NE | Dock | 1912 | 1268439 |
| Y | 464m NE | Unspecified Mill | 1970 | 1237370 |
| 12 | 468m SW | Unspecified Works | 1991 | 1179008 |
| X | 473m NE | Dock | 1901 | 1200425 |
| Z | 473m NE | Railway Sidings | 1912 | 1224152 |
| Z | 473m NE | Railway Sidings | 1901 | 1223700 |
| X | 474m NE | Unspecified Dock | 1887 | 1218813 |
| X | 476m NE | Dock | 1900 | 1200425 |
| Z | 484m NE | Railway Sidings | 1900 | 1214860 |
| Y | 485m NE | Railway Sidings | 1922 | 1191968 |
| Y | 485m NE | Dock | 1922 | 1215633 |
| X | 488m NE | Dock | 1938 | 1209770 |
| Z | 489m NE | Railway Sidings | 1970 | 1248934 |
| Z | 489m NE | Docks | 1970 | 1240437 |
| X | 490m NE | Dock | 1902 | 1200425 |
| Z | 490m NE | Railway Sidings | 1902 | 1223700 |
| Z | 492m NE | Railway Sidings | 1921 | 1197114 |
| Z | 492m NE | Unspecified Commercial/Industrial | 1921 | 1159056 |
| Z | 494m NE | Railway Sidings | 1920 | 1201723 |
| AA | 494m NE | Dock | 1920 | 1268439 |
| AA | 494m NE | Dock | 1920 | 1268439 |
| Z | 494m NE | Railway Sidings | 1938 | 1272435 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|-------------------|------|----------|
| 14 | 494m NE | Railway Sidings | 1912 | 1251954 |
| X | 494m NE | Dock | 1912 | 1210796 |
| 15 | 495m NE | Unspecified Mill | 1979 | 1251747 |
| X | 495m NE | Unspecified Dock | 1912 | 1220980 |
| Z | 495m NE | Railway Sidings | 1912 | 1249991 |
| Y | 498m NE | Compound Mill | 1955 | 1164384 |
| Z | 498m NE | Unspecified Docks | 1955 | 1157147 |

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

41

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

| ID | Location | Land Use | Date | Group ID |
|----------|----------------|-------------------------|-------------|---------------|
| 3 | On site | Unspecified Tank | 1994 | 174033 |
| A | On site | Unspecified Tank | 1997 | 178734 |
| A | On site | Unspecified Tank | 1994 | 178734 |
| C | On site | Unspecified Tank | 1994 | 189877 |
| C | On site | Unspecified Tank | 1997 | 189877 |
| C | On site | Unspecified Tank | 1989 | 189877 |
| H | 31m NE | Tanks | 1994 | 169495 |
| I | 49m N | Unspecified Tank | 1994 | 190473 |
| I | 49m N | Unspecified Tank | 1997 | 190473 |
| H | 58m N | Unspecified Tank | 1994 | 174034 |
| J | 102m SE | Unspecified Tank | 1994 | 187821 |
| J | 102m SE | Unspecified Tank | 1997 | 187821 |
| M | 158m NE | Tanks | 1989 | 188544 |



| ID | Location | Land Use | Date | Group ID |
|----|----------|------------------|------|----------|
| M | 159m NE | Tanks | 1994 | 188153 |
| M | 159m NE | Tanks | 1997 | 188153 |
| D | 160m E | Tanks | 1984 | 183421 |
| D | 160m E | Tanks | 1994 | 182978 |
| D | 160m E | Tanks | 1997 | 182978 |
| M | 160m NE | Tanks | 1994 | 185560 |
| M | 160m NE | Tanks | 1997 | 185560 |
| N | 196m NW | Unspecified Tank | 1978 | 185461 |
| N | 196m NW | Unspecified Tank | 1992 | 192192 |
| O | 197m W | Unspecified Tank | 1991 | 186411 |
| O | 198m W | Unspecified Tank | 1997 | 186411 |
| O | 198m W | Unspecified Tank | 1994 | 186411 |
| N | 198m NW | Unspecified Tank | 1985 | 185461 |
| O | 199m W | Unspecified Tank | 1984 | 186411 |
| O | 199m W | Unspecified Tank | 1989 | 186411 |
| O | 199m W | Unspecified Tank | 1989 | 186411 |
| M | 202m NE | Tanks | 1994 | 181052 |
| M | 202m NE | Tanks | 1997 | 181052 |
| U | 327m SW | Unspecified Tank | 1978 | 184209 |
| U | 329m SW | Unspecified Tank | 1984 | 193963 |
| U | 329m SW | Unspecified Tank | 1989 | 193963 |
| U | 329m SW | Unspecified Tank | 1989 | 193963 |
| V | 392m W | Unspecified Tank | 1978 | 192087 |
| V | 392m W | Unspecified Tank | 1984 | 192087 |
| V | 392m W | Unspecified Tank | 1989 | 192087 |
| V | 392m W | Unspecified Tank | 1989 | 192087 |
| 13 | 487m SW | Unspecified Tank | 1997 | 173993 |
| Y | 499m NE | Unspecified Tank | 1952 | 174043 |

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

| | |
|----------------------------|-----------|
| Records within 500m | 14 |
|----------------------------|-----------|

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

| ID | Location | Land Use | Date | Group ID |
|----|----------|------------------------|------|----------|
| A | On site | Gas Governor | 1991 | 102848 |
| A | On site | Gas Governor | 1997 | 102848 |
| A | On site | Gas Governor | 1994 | 102848 |
| G | 24m E | Electricity Substation | 1989 | 108904 |
| G | 25m E | Electricity Substation | 1978 | 108904 |
| G | 25m E | Electricity Substation | 1994 | 108904 |
| G | 25m E | Electricity Substation | 1997 | 108904 |
| P | 202m N | Electricity Substation | 1994 | 104931 |
| P | 202m N | Electricity Substation | 1995 | 104931 |
| Q | 248m S | Electricity Substation | 1997 | 106610 |
| Q | 248m S | Electricity Substation | 1994 | 106610 |
| Q | 251m S | Electricity Substation | 1991 | 113606 |
| W | 396m S | Gas Governor | 1991 | 112203 |
| W | 396m S | Gas Governor | 1994 | 112203 |

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

| | |
|----------------------------|----------|
| Records within 500m | 0 |
|----------------------------|----------|

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 25**

| ID | Location | Details | | |
|----|----------|--|--|--|
| 1 | 230m N | Site Address: Land adjoining Royal Portbury Dock, Portbury, Bristol Licence Holder Address: St Andrews Road, Avonmouth, Bristol | Waste Licence: Yes Site Reference: L/WG/T/181 Waste Type: Inert, Industrial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 23/10/1986 Licence Surrender: 02/11/1992 | Operator: - Licence Holder: Port Of Bristol First Recorded 23/10/1986 Last Recorded: 02/11/1992 |
| 5 | 425m SW | Site Address: Royal Portbury Dock, Proposed Development Area Adjacent to Dock Road, Bristol, Avon Licence Holder Address: - | Waste Licence: Yes Site Reference: S/WG/T/6 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 11/05/1978 Licence Surrender: - | Operator: - Licence Holder: - First Recorded - Last Recorded: 31/07/1969 |

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

6

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

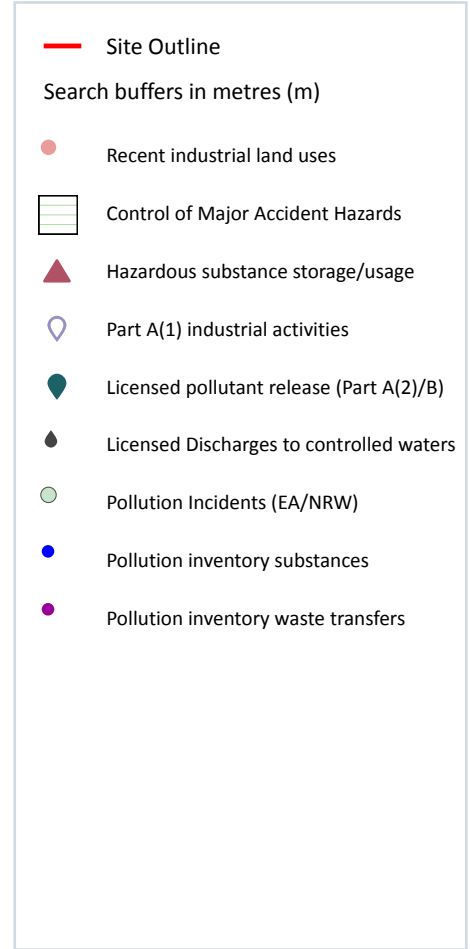
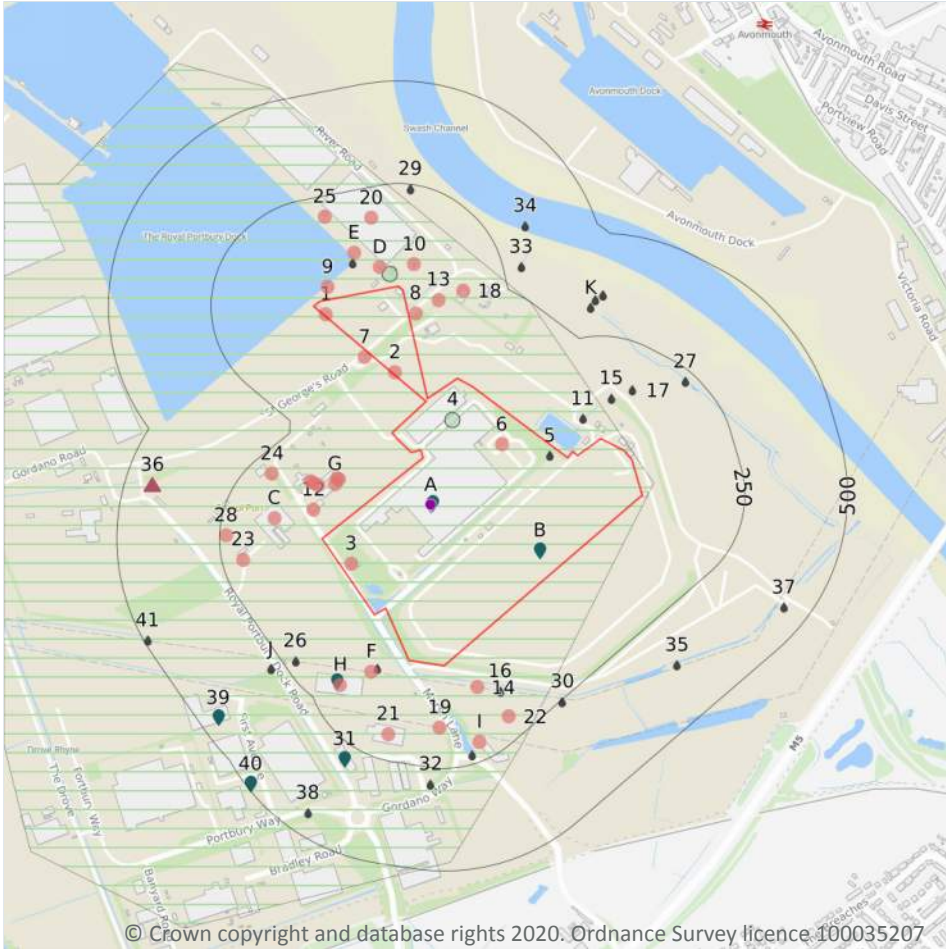
Features are displayed on the Waste and landfill map on **page 25**

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|----|----------|--|--------------------|--------------------------|-----------------------------|---------------------------------------|
| A | 228m S | Johnsons Controls Building Efficiency Unit 17 Garanor Way Bristol BS20 7XE | EPR/WE5385R P/A001 | Storing waste exemption | Non-Agricultural Waste Only | Storage of waste in secure containers |
| A | 228m S | Johnsons Controls Building Efficiency Unit 17 Garanor Way Bristol BS20 7XE | EPR/WE5385R P/A001 | Storing waste exemption | Non-Agricultural Waste Only | Storage of waste in a secure place |
| 2 | 283m SW | UNIT 1-3, GARONOR WAY, ROYAL PORTBURY DOCK, PORTBURY, BRISTOL, BS20 7XE | WEX001487 | Storing waste exemption | Not on a farm | Storage of waste in secure containers |
| 3 | 297m S | Garonor Way Unit 18 Royal Portbury Dock BRISTOL BS20 7XE | EPR/UF0104L Q/A001 | Storing waste exemption | Non-Agricultural Waste Only | Storage of waste in secure containers |
| 4 | 370m SW | D S Smith Royal Portbury Dock BRISTOL BS20 7XR | EPR/DF0939A P/A001 | Treating waste exemption | Non-Agricultural Waste Only | Crushing waste fluorescent tubes |
| 6 | 433m W | 432, GLOUCESTER ROAD, HORFIELD, BRISTOL, BS7 8TX | WEX093511 | Using waste exemption | Not on a farm | Use of waste in construction |

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m **32**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Company | Address | Activity | Category |
|----|----------|----------------------|----------------|--------------|-------------------------------|
| 1 | On site | Conveyor | Somerset, BS20 | Conveyors | Industrial Features |
| 2 | On site | Conveyor | Somerset, BS20 | Conveyors | Industrial Features |
| 3 | On site | Gas Governor Station | Somerset, BS20 | Gas Features | Infrastructure and Facilities |



| ID | Location | Company | Address | Activity | Category |
|----|----------|-------------------------------|---|---|-------------------------------|
| 6 | On site | Tank | Somerset, BS20 | Tanks (Generic) | Industrial Features |
| 7 | 15m SW | Pipeline | Somerset, BS20 | Pipelines | Industrial Features |
| 8 | 17m E | Electricity Sub Station | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| 9 | 31m N | St George's Quay | Somerset, BS20 | Moorings and Unloading Facilities | Water |
| D | 54m N | Electricity Sub Station | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| 10 | 65m NE | Electricity Sub Station | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| 12 | 68m NW | Good Taste Foods | Unit 24 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Catering and Non Specific Food Products | Foodstuffs |
| 13 | 79m E | Pipeline | Somerset, BS20 | Pipelines | Industrial Features |
| G | 84m NW | M J M Woodworking Machinery | Unit 7a Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Tools Including Machine Shops | Industrial Products |
| G | 88m NW | Southwest Autotints | Unit 6 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Industrial Coatings and Finishings | Industrial Products |
| G | 91m NW | Gordano Garage Services | Unit 6 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 14 | 92m SE | Pylon | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| F | 95m SW | Pylon | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| E | 100m N | Travelling Crane | Somerset, BS20 | Travelling Cranes and Gantries | Industrial Features |
| G | 107m NW | C P M Design Print Promotions | Unit 1 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Published Goods | Industrial Products |
| G | 119m NW | M Tec | Unit 20 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Vehicle Repair, Testing and Servicing | Repair and Servicing |



| ID | Location | Company | Address | Activity | Category |
|----|----------|-------------------------|---|-----------------------|---------------------------------|
| G | 127m NW | Transcal | Unit 19 Marsh Lane Trading Estate, Marsh Lane, Easton-in-Gordano, Bristol, Somerset, BS20 0NH | Vehicle Components | Industrial Products |
| C | 127m NW | Depot | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |
| 18 | 143m E | U M Storage | Royal Portbury Dock, Portbury, Bristol, Somerset, BS20 7XW | Container and Storage | Transport, Storage and Delivery |
| 19 | 151m S | Pylon | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| 20 | 176m N | Warehouse | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |
| H | 177m SW | Depot | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |
| 21 | 187m S | Depot | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |
| 22 | 197m SE | Depot | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |
| 23 | 199m W | Tank | Somerset, BS20 | Tanks (Generic) | Industrial Features |
| 24 | 199m NW | Tank | Somerset, BS20 | Tanks (Generic) | Industrial Features |
| 25 | 200m N | Electricity Sub Station | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| I | 205m SE | Electricity Sub Station | Somerset, BS20 | Electrical Features | Infrastructure and Facilities |
| 28 | 235m W | Depot | Somerset, BS20 | Container and Storage | Transport, Storage and Delivery |

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.



4.3 Electricity cables

| | |
|---------------------|---|
| Records within 500m | 0 |
|---------------------|---|

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

| | |
|---------------------|---|
| Records within 500m | 0 |
|---------------------|---|

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

| | |
|---------------------|---|
| Records within 500m | 0 |
|---------------------|---|

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

| | |
|---------------------|---|
| Records within 500m | 1 |
|---------------------|---|

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Company | Address | Operational status | Tier |
|----|----------|-------------------------------|--|-----------------------|------|
| C | On site | Agriculture Bulk Services Ltd | Agriculture Bulk Services Ltd, Royal Portbury Dock, Portbury, BS20 7XL | Historical NIHHS Site | - |

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Details | |
|----|----------|--|--|
| 36 | 434m W | Application reference number: No Details Application status: Historical Consent Application date: No Details Address: First Corporate Shipping Ltd, Port and Harbour of Bristol, Bristol, Avon, England | Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details |

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

21

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 28**



| ID | Location | Details | |
|----|----------|---|---|
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED EPR/XP3036SZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: NP3339YY Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 17/01/2017 Effective Date: 17/01/2017 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED Process: ASSOCIATED PROCESS Permit Number: PP3905PE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 04/11/2019 Effective Date: 04/11/2019 Last date noted as effective: 30/01/2020 Status: EFFECTIVE |
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED Process: COMBUSTION; ANY FUEL =>50MW Permit Number: PP3905PE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 04/11/2019 Effective Date: 04/11/2019 Last date noted as effective: 30/01/2020 Status: EFFECTIVE |
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: PP3905PE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 04/11/2019 Effective Date: 04/11/2019 Last date noted as effective: 30/01/2020 Status: EFFECTIVE |
| A | On site | Operator: SINIAT LIMITED Installation Name: SINIAT LIMITED EPR/XP3036SZ Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: BP3531DP Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 11/11/2016 Effective Date: 11/11/2016 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: GP3438ZE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 07/01/2013 Effective Date: 07/01/2013 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |



| ID | Location | Details | |
|----|----------|---|---|
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: ASSOCIATED PROCESS Permit Number: KP3634VF Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 30/07/2014 Effective Date: 30/07/2014 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: KP3634VF Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 30/07/2014 Effective Date: 30/07/2014 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: ASSOCIATED PROCESS Permit Number: DP3233CQ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 20/03/2012 Effective Date: 20/03/2012 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: COMBUSTION; ANY FUEL =>50MW Permit Number: DP3233CQ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 20/03/2012 Effective Date: 20/03/2012 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: SINIAT LIMITED EPR/XP3036SZ Process: ASSOCIATED PROCESS Permit Number: BP3531DP Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 11/11/2016 Effective Date: 11/11/2016 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: SINIAT LIMITED EPR/XP3036SZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BP3531DP Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 11/11/2016 Effective Date: 11/11/2016 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: ASSOCIATED PROCESS Permit Number: GP3438ZE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 07/01/2013 Effective Date: 07/01/2013 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |



| ID | Location | Details | |
|----|----------|---|---|
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: COMBUSTION; ANY FUEL =>50MW Permit Number: GP3438ZE Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 07/01/2013 Effective Date: 07/01/2013 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: SINIAT LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: COMBUSTION; ANY FUEL =>50MW Permit Number: KP3634VF Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 30/07/2014 Effective Date: 30/07/2014 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: DP3233CQ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 20/03/2012 Effective Date: 20/03/2012 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: ASSOCIATED PROCESS Permit Number: XP3036SZ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 19/09/2006 Effective Date: 19/09/2006 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: COMBUSTION; ANY FUEL =>50MW Permit Number: XP3036SZ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 19/09/2006 Effective Date: 19/09/2006 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: LAFARGE PLASTERBOARD LIMITED Installation Name: PORTBURY PLASTERBOARD FACILITY Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: XP3036SZ Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 19/09/2006 Effective Date: 19/09/2006 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |

| ID | Location | Details | |
|----|----------|--|---|
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED EPR/XP3036SZ Process: ASSOCIATED PROCESS Permit Number: NP3339YY Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 17/01/2017 Effective Date: 17/01/2017 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |
| A | On site | Operator: ETEX BUILDING PERFORMANCE LIMITED Installation Name: ETEX BUILDING PERFORMANCE LIMITED EPR/XP3036SZ Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING) Permit Number: NP3339YY Original Permit Number: XP3036SZ | EPR Reference: - Issue Date: 17/01/2017 Effective Date: 17/01/2017 Last date noted as effective: 30/01/2020 Status: SUPERCEDED |

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

| | |
|----------------------------|----------|
| Records within 500m | 7 |
|----------------------------|----------|

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Address | Details | |
|----|----------|--|--|--|
| A | On site | Lafarge Plaster, Marsh Lane, Easton-in-Gordano, Bristol, BS20 0NF | Process: Plaster Processes Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |
| B | On site | Bristol Port Company, Marsh Lane, Royal Portbury Dock, Bristol, BS20 0XP | Process: Coal & Coke Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |
| B | On site | Bristol Bulk Co | Process: Coal & Coke Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |
| H | 182m SW | Paragon Vehicle Services, Royal Portbury Dock, BS20 9XN | Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |



| ID | Location | Address | Details | |
|----|----------|---|---|--|
| 31 | 287m SW | Finning (UK) Ltd, Units 1-3 Garonor Way, Gordano 19, Portbury | Process: Waste Oil Burner 0.4 MW Status: New legislation applies Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |
| 39 | 457m SW | Wiltshire Ltd, Royal Portbury Dock, BS20 7WP | Process: Solvent Emissions Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |
| 40 | 490m SW | Christies Panels, Weston Super Mare, Somerset, BS23 4NY | Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified |

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

25

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Address | Details | |
|----|----------|---|--|---|
| 5 | On site | ORCHARD SOUTH SITE, ROYAL PORTBURY DOCK, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 100697 Permit Version: 1 Receiving Water: TRIB OF THE RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/12/1998 Effective Date: 15/10/1998 Revocation Date: - |
| 11 | 65m NW | ORCHARD SOUTH SITE, ROYAL PORTBURY DOCK, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 100697 Permit Version: 1 Receiving Water: TRIB OF THE RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/12/1998 Effective Date: 15/10/1998 Revocation Date: - |



| ID | Location | Address | Details | |
|----|----------|--|---|--|
| E | 77m N | BULK HANDLING TERMINAL, ROYAL PORTBURY DOCK, BRISTOL, AVON | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 072080 Permit Version: 1 Receiving Water: ROYAL PORTBURY DOCK | Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/12/1992 Effective Date: 23/12/1992 Revocation Date: 18/12/2008 |
| F | 79m SW | PROTON CARS (UK) LIMITED, PDI SITE, WESTERN INTERCEPTOR MARSH LANE, ROYAL PORTBURY DOCK, PILL, BRISTOL, AVON | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 072034 Permit Version: 1 Receiving Water: UN-NAMED TRIB PORTBURY DITCH | Status: SURRENDERED UNDER EPR 2010 Issue date: 02/03/1993 Effective Date: 19/02/1993 Revocation Date: 27/11/2018 |
| 15 | 101m N | ORCHARD SOUTH SITE, ROYAL PORTBURY DOCK, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 100697 Permit Version: 1 Receiving Water: TRIB OF THE RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/12/1998 Effective Date: 15/10/1998 Revocation Date: - |
| 16 | 136m SE | ROYAL PORTBURY DOCK, EASTON IN GORDANO, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 103861 Permit Version: 1 Receiving Water: UNNAMED RHYNE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/11/2007 Effective Date: 23/11/2007 Revocation Date: - |
| 17 | 139m NE | BULK HANDLING TERMINAL, ROYAL PORTBURY DOCK, BRISTOL, AVON | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 012039 Permit Version: 1 Receiving Water: COMMON LAND BOUNDARY (E) | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 06/01/1993 Effective Date: 23/12/1992 Revocation Date: - |
| 26 | 223m SW | PROTON CARS (UK) LIMITED, PDI SITE, WESTERN INTERCEPTOR MARSH LANE, ROYAL PORTBURY DOCK, PILL, BRISTOL, AVON | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 072035 Permit Version: 1 Receiving Water: UN-NAMED TRIB PORTBURY DITCH | Status: SURRENDERED UNDER EPR 2010 Issue date: 02/03/1993 Effective Date: 19/02/1993 Revocation Date: 27/11/2018 |
| 27 | 223m NE | RIVER AVON FORESHORE/DAIMLER, CHRYSLER SITE, ROYAL PORTBURY DOCKS, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 101571 Permit Version: 1 Receiving Water: RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/09/2001 Effective Date: 02/09/2001 Revocation Date: - |



| ID | Location | Address | Details | |
|----|----------|--|---|---|
| I | 228m S | PROTON CARS (UK) LTD, OFFICE BUILDING SITE, MARSH LANE, ROYAL PORTBURY DOCK, PILL, BRISTOL, AVON | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - WATER COMPANY (WTW) Permit Number: 072033 Permit Version: 1 Receiving Water: UN-NAMED TRIB PORTBURY DITCH | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 02/03/1993 Effective Date: 19/02/1993 Revocation Date: 19/08/2004 |
| 29 | 238m N | ROYAL PORTBURY DOCKS - OUTFALL 1, RIVER AVON SOUTHERN FORESHORE, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT) Permit Number: 101470 Permit Version: 1 Receiving Water: RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 10/04/2001 Effective Date: 04/04/2001 Revocation Date: - |
| 30 | 254m SE | ROYAL PORTBURY DOCK, EASTON IN GORDANO, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 103861 Permit Version: 1 Receiving Water: UNNAMED RHYNE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/11/2007 Effective Date: 23/11/2007 Revocation Date: - |
| J | 284m SW | CAR TERMINAL (E41), PORTBURY WAY, ROYAL PORTBURY DOCK, PORTBURY, BRISTOL | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 013418 Permit Version: 1 Receiving Water: UN-NAMED WATERCOURSE | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 08/07/1996 Effective Date: 25/06/1996 Revocation Date: - |
| J | 284m SW | CAR TERMINAL (E41), PORTBURY WAY, ROYAL PORTBURY DOCK, PORTBURY, BRISTOL | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 013418 Permit Version: 1 Receiving Water: UN-NAMED WATERCOURSE | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 08/07/1996 Effective Date: 25/06/1996 Revocation Date: - |
| 32 | 290m S | LANE GROUP PLC, REGIONAL FREIGHT CENTRE, PORTBURY, BRISTOL, AVON, BS20 9XX | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 013255 Permit Version: 1 Receiving Water: RIVER AVON | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 26/01/1996 Effective Date: 26/01/1996 Revocation Date: - |
| 33 | 292m E | RIVER AVON FORESHORE/DAIMLER, CHRYSLER SITE, ROYAL PORTBURY DOCKS, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 101255 Permit Version: 1 Receiving Water: RIVER AVON FORESHORE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/08/2000 Effective Date: 17/08/2000 Revocation Date: - |



| ID | Location | Address | Details | |
|----|----------|---|---|--|
| K | 319m N | RIVER AVON FORESHORE/DAIMLER, CHRYSLER SITE, ROYAL PORTBURY DOCKS, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 101570 Permit Version: 1 Receiving Water: RIVER AVON | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/09/2001 Effective Date: 02/09/2001 Revocation Date: - |
| 34 | 335m NE | AXIAL SITE, RIVER ROAD, PORTBURY DOCK, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 100696 Permit Version: 1 Receiving Water: RIVER AVON | Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 23/12/1998 Effective Date: 15/10/1998 Revocation Date: 14/08/2000 |
| K | 338m N | RIVER AVON FORESHORE/DAIMLER, CHRYSLER SITE, ROYAL PORTBURY DOCKS, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 101256 Permit Version: 1 Receiving Water: RIVER AVON FORESHORE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/08/2000 Effective Date: 17/08/2000 Revocation Date: - |
| K | 348m N | REDLAND AVENUE, EASTON-IN- GORDANO, BRISTOL | Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 010436 Permit Version: 1 Receiving Water: AVON, RIVER BRISTOL | Status: REVOKED UNDER EPR 2010 Issue date: - Effective Date: 18/07/1991 Revocation Date: 16/02/2017 |
| K | 348m N | REDLAND AVENUE, EASTON-IN- GORDANO, BRISTOL | Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 010436 Permit Version: 1 Receiving Water: AVON, RIVER BRISTOL | Status: REVOKED UNDER EPR 2010 Issue date: - Effective Date: 18/07/1991 Revocation Date: 16/02/2017 |
| 35 | 369m SE | PLOT 23, ROYAL PORTBURY DOCK, PORTBURY, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: 100911 Permit Version: 1 Receiving Water: RIB OF THE DROVE RHYNE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/07/1999 Effective Date: 22/07/1999 Revocation Date: - |
| 37 | 440m SE | PLOT 23, ROYAL PORTBURY DOCK, PORTBURY, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: 100912 Permit Version: 1 Receiving Water: TRIB OF THE DROVE RHYNE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/07/1999 Effective Date: 22/07/1999 Revocation Date: - |



| ID | Location | Address | Details | |
|----|----------|---|---|--|
| 38 | 446m SW | 1ST AVENUE, PORTBURY, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 101397 Permit Version: 1 Receiving Water: A TRIB OF THE DROVE RHYNE | Status: SURRENDERED UNDER EPR 2010 Issue date: 17/01/2001 Effective Date: 11/01/2001 Revocation Date: 18/05/2013 |
| 41 | 492m SW | PLOTS 38 AND 39, WEST DOCK ROAD, ROYAL PORTBURY DOCK, BRISTOL | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 013393 Permit Version: 1 Receiving Water: TRIB OF DROVE RHYNE | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 113 & SCHED 12) Issue date: 03/04/1996 Effective Date: 28/03/1996 Revocation Date: - |

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

2

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Details | |
|----|----------|--|--|
| 4 | On site | Incident Date: 08/07/2002 Incident Identification: 90101 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste | Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) |
| D | 32m N | Incident Date: 17/10/2002 Incident Identification: 115315 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) |

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

4

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 28**



ID: A, Location: On site, Permit: XP3036SZ
 Operator: Etex Building Performance Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Etex Building Performance Limited Redland Avenue Easton-in-Gordano Bristol BS20 0FB
 Sector: Cement and Minerals, Sub-sector: Minerals
 Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|-------|----------------|--------------------------|---------------|
| Air | Carbon dioxide | 10000000kg | 70541000kg |

ID: A, Location: On site, Permit: XP3036SZ
 Operator: Etex Building Performance Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Etex Building Performance Limited Redland Avenue Easton-in-Gordano Bristol BS20 0FB
 Sector: Cement and Minerals, Sub-sector: Minerals
 Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|-------------------|---|--------------------------|---------------------------|
| Air | Nitrous oxide | 10000kg | Below Reporting Threshold |
| Air | Methane | 10000kg | Below Reporting Threshold |
| Air | Mercury | 1kg | Below Reporting Threshold |
| Air | Non-methane volatile organic compounds (NMVOCs) | 10000kg | Below Reporting Threshold |
| Air | Hydrofluorocarbons (HFCs) | 100kg | Below Reporting Threshold |
| Controlled Waters | Total organic carbon (TOC) | 50000kg | Below Reporting Threshold |
| Air | Particulate matter - total | 10000kg | Below Reporting Threshold |
| Air | Sulphur oxides (SO2 and SO3) as SO2 | 100000kg | Below Reporting Threshold |
| Wastewater | Total organic carbon (TOC) | 50000kg | Below Reporting Threshold |

ID: A, Location: On site, Permit: XP3036SZ
 Operator: Etex Building Performance Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Etex Building Performance Limited Redland Avenue Easton-in-Gordano Bristol BS20 0FB
 Sector: Cement and Minerals, Sub-sector: Minerals
 Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|-------|-----------------|--------------------------|---------------|
| Air | Carbon monoxide | 100000kg | 102747kg |

ID: A, Location: On site, Permit: XP3036SZ
 Operator: Etex Building Performance Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Etex Building Performance Limited Redland Avenue Easton-in-Gordano Bristol BS20 0FB
 Sector: Cement and Minerals, Sub-sector: Minerals
 Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|-------|-------------------------------------|--------------------------|---------------|
| Air | Nitrogen oxides (NO and NO2) as NO2 | 100000kg | 308240kg |

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

1

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 28**

ID: A, Location: On site, Permit: XP3036SZ
 Operator: Etex Building Performance Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Etex Building Performance Limited Redland Avenue Easton-in-Gordano Bristol BS20 0FB
 Sector: Cement and Minerals, Sub-sector: Minerals
 Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|-------|--|-------------------|----------------|----------|---|-----------------|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 13.775 | Absolute Value | 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 | No |
| R5 | Recycling/reclamation of other inorganic materials | 24944 | Absolute Value | 10 13 99 | wastes not otherwise specified | No |



| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|-------|---|---------------------------|---------------------------|----------|---|-----------------|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 5.937 | Absolute Value | 13 02 05 | mineral-based non-chlorinated engine, gear and lubricating oils | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | Below Reporting Threshold | Below Reporting Threshold | 15 01 02 | plastic packaging | No |
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.) | Below Reporting Threshold | Below Reporting Threshold | 15 01 04 | metallic packaging | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 1.6 | Absolute Value | 15 01 10 | packaging containing residues of or contaminated by dangerous substances | Yes |
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.) | 0.6 | Absolute Value | 15 02 02 | absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances | Yes |
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.) | Below Reporting Threshold | Below Reporting Threshold | 15 02 03 | absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 | No |



| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|-------|---|---------------------------|---------------------------|----------|---|-----------------|
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.) | Below Reporting Threshold | Below Reporting Threshold | 16 02 14 | discarded equipment other than those mentioned in 16 02 09 to 16 02 13 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 2.337 | Absolute Value | 16 03 03 | inorganic wastes containing dangerous substances | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 1 | Absolute Value | 16 03 05 | organic wastes containing dangerous substances | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 10 | Absolute Value | 16 03 06 | organic wastes other than those mentioned in 16 03 05 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 0.3 | Absolute Value | 16 05 04 | gases in pressure containers (including halons) containing dangerous substances | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 46 | Absolute Value | 16 10 02 | aqueous liquid wastes other than those mentioned in 16 10 01 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 1.055 | Absolute Value | 16 10 01 | aqueous liquid wastes containing dangerous substances | Yes |
| R1 | Use principally as a fuel or other means to generate energy | 77.73 | Absolute Value | 17 02 01 | wood | No |



| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|-------|---|---------------------------|---------------------------|----------|--|-----------------|
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.) | 83.487 | Absolute Value | 17 08 02 | gypsum-based construction materials other than those mentioned in 17 08 01 | No |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 381.06 | Absolute Value | 20 01 01 | paper and cardboard | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 24.3 | Absolute Value | 20 01 99 | other fractions not otherwise specified | No |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | Below Reporting Threshold | Below Reporting Threshold | 20 01 08 | biodegradable kitchen and canteen waste | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 0.65 | Absolute Value | 20 01 21 | fluorescent tubes and other mercury-containing waste | Yes |
| R1 | Use principally as a fuel or other means to generate energy | 81 | Absolute Value | 20 01 38 | wood other than that mentioned in 20 01 37 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 18.42 | Absolute Value | 20 01 39 | plastics | No |
| R4 | Recycling/reclamation of metals and metal compounds | 99.33 | Absolute Value | 20 01 40 | metals | No |
| R1 | Use principally as a fuel or other means to generate energy | 36.65 | Absolute Value | 20 03 01 | mixed municipal waste | No |
| D1 | Deposit into or onto land (eg landfill, etc.) | 139.348 | Absolute Value | 20 03 01 | mixed municipal waste | No |

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.21 Pollution inventory radioactive waste

Records within 500m

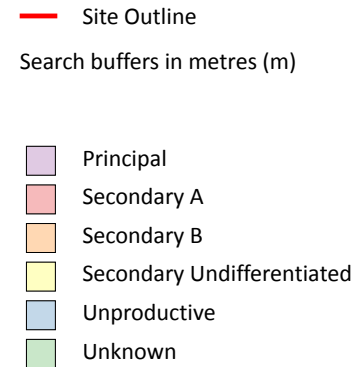
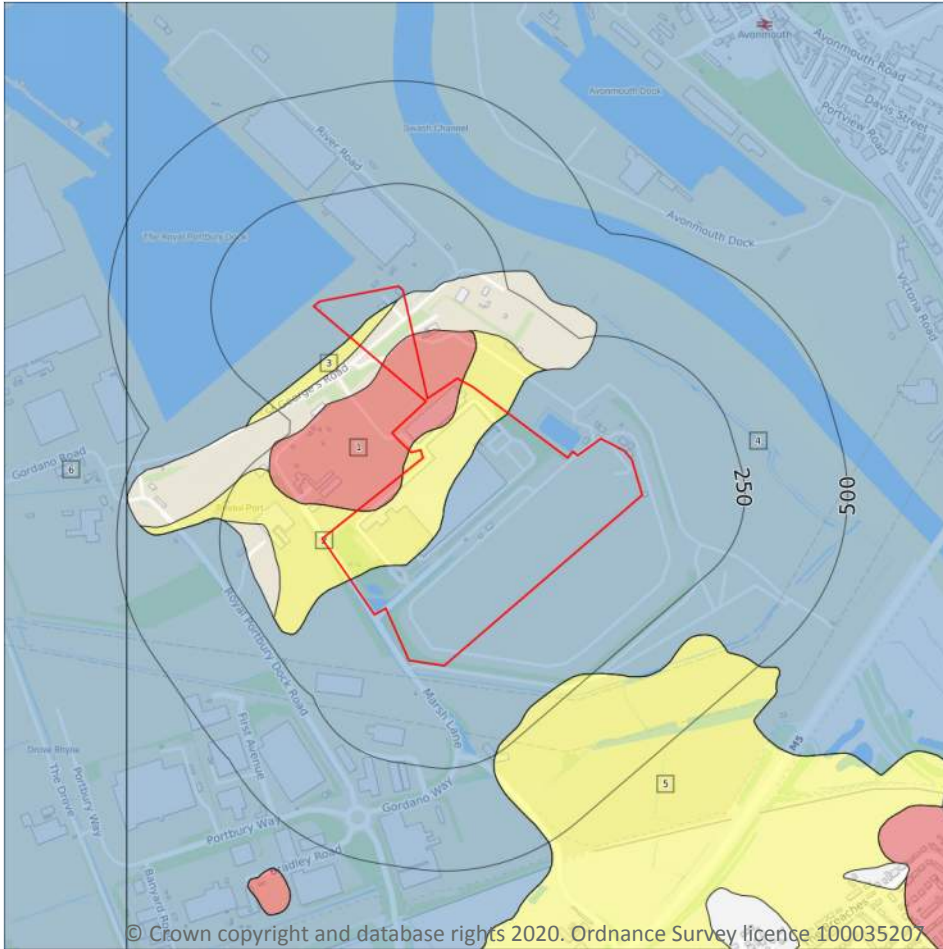
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

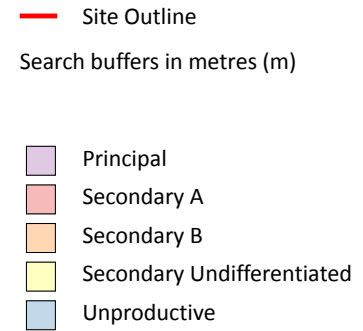
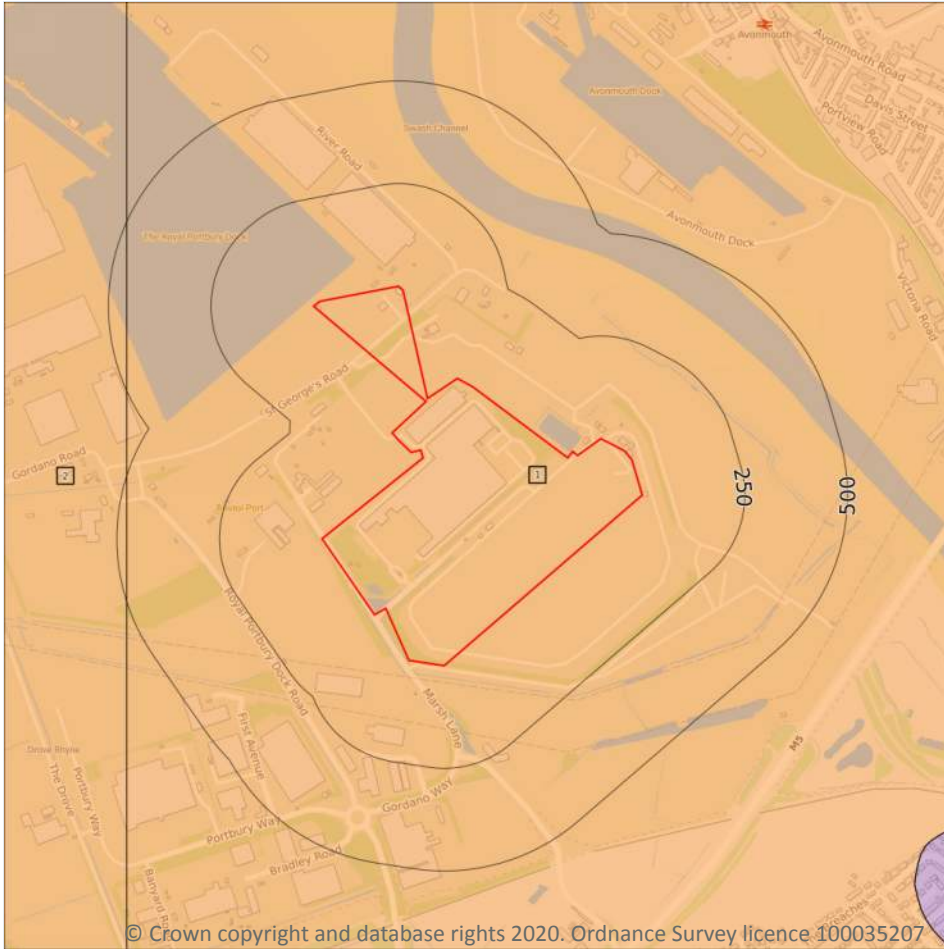
Features are displayed on the Hydrogeology map on **page 49**

| ID | Location | Designation | Description |
|----|----------|----------------------------|---|
| 1 | On site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2 | On site | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

| ID | Location | Designation | Description |
|----|----------|----------------------------|---|
| 3 | On site | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 4 | On site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 5 | 213m SE | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 6 | 455m W | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

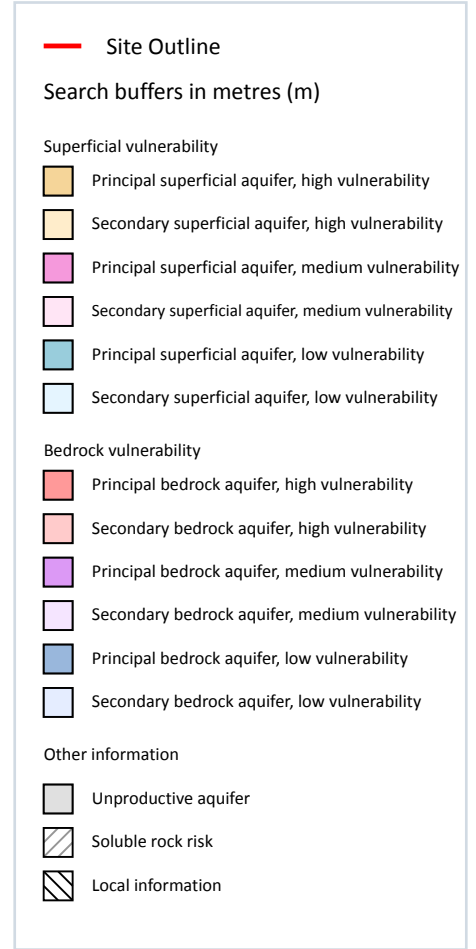
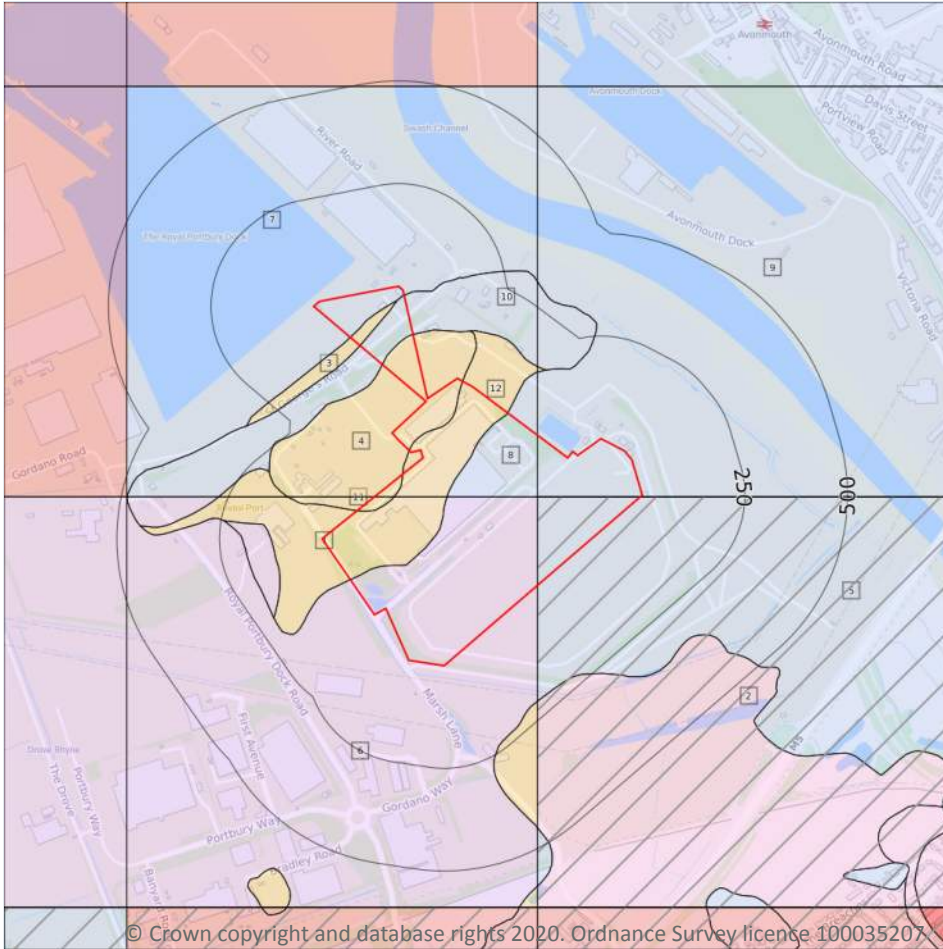
Features are displayed on the Bedrock aquifer map on **page 51**

| ID | Location | Designation | Description |
|----|----------|-------------|--|
| 1 | On site | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |
| 2 | 455m W | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

11

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 53**

| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|----|----------|---|--|--|---|
| 1 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: Low | Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 3 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 4 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 5 | On site | Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 6 | On site | Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: >90% Recharge potential: Low | Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 7 | On site | Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year | Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |



| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|----|----------|--|---|--|--|
| 8 | On site | Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year | Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 9 | On site | Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year | Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 10 | On site | Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year | Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 11 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year | Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: Low | Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 12 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year | Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low | Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures |

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

1

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.



| ID | Maximum soluble risk category | Percentage of grid square covered by maximum risk |
|----|---|---|
| 2 | Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow. | 1.0% |

This data is sourced from the British Geological Survey and the Environment Agency.

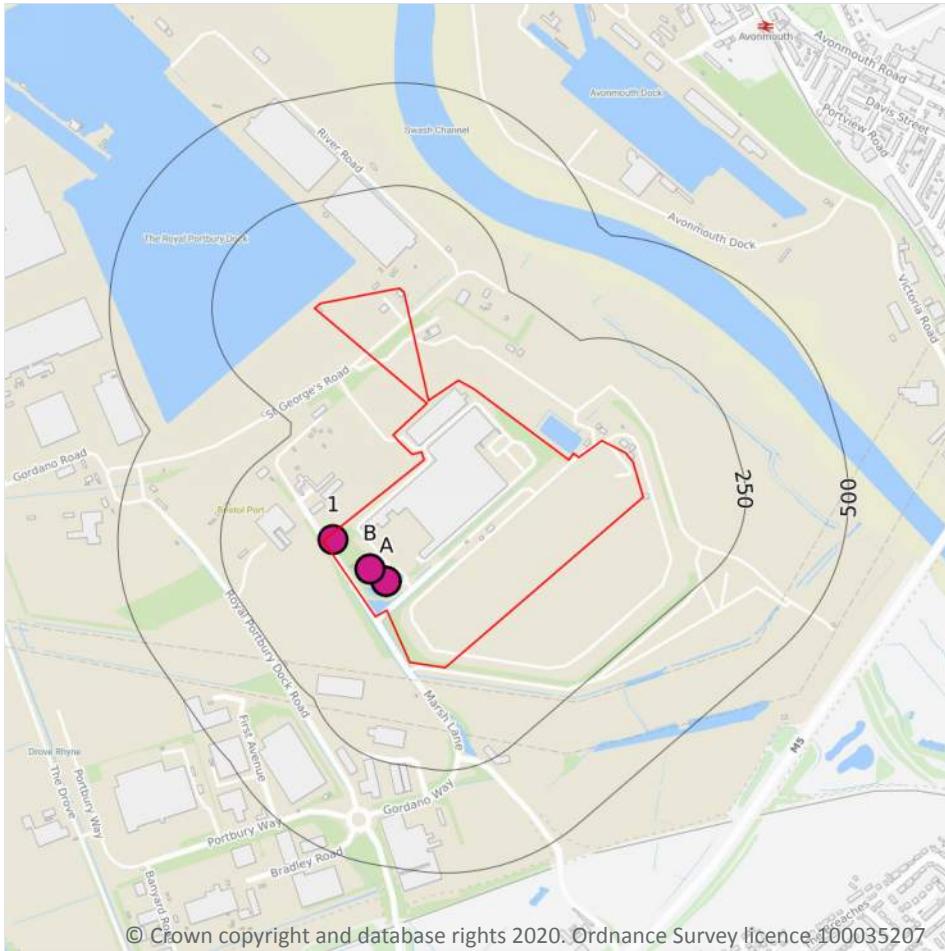
5.5 Groundwater vulnerability- local information

| | |
|------------------------|----------|
| Records on site | 0 |
|------------------------|----------|

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

14

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 57**

| ID | Location | Details | |
|----|----------|---|--|
| 1 | On site | Status: Historical Licence No: 16/52/016/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: WOODSPRING Data Type: Point Name: La Farge Plasterboard Ltd Easting: 350500 Northing: 176900 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 07/02/1995 Version End Date: - |
| A | On site | Status: Historical Licence No: 16/52/016/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: BOREHOLE TWO AT LAFARGE PLASTER BOARD Data Type: Point Name: La Farge Plasterboard Ltd Easting: 350630 Northing: 176800 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 07/02/1995 Version End Date: - |
| A | On site | Status: Historical Licence No: 16/52/016/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "LAFARGE BOREHOLE ""B""" Data Type: Point Name: Lafarge Plasterboard Ltd Easting: 350630 Northing: 176800 | Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1999 Version End Date: - |
| A | On site | Status: Active Licence No: 16/52/016/G/029 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: LAFARGE BOREHOLE "B" Data Type: Point Name: Etex Building Performance Limited Easting: 350630 Northing: 176800 | Annual Volume (m ³): 230,000 Max Daily Volume (m ³): 660 Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 102 Version Start Date: 09/01/2017 Version End Date: - |



| ID | Location | Details | |
|----|----------|--|--|
| B | On site | Status: Historical Licence No: 16/52/016/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "LAFARGE BOREHOLE ""A""" Data Type: Point Name: Lafarge Plasterboard Ltd Easting: 350590 Northing: 176830 | Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1999 Version End Date: - |
| B | On site | Status: Active Licence No: 16/52/016/G/029 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: LAFARGE BOREHOLE "A" Data Type: Point Name: Etex Building Performance Limited Easting: 350590 Northing: 176830 | Annual Volume (m³): 230,000 Max Daily Volume (m³): 660 Original Application No: - Original Start Date: 07/06/1992 Expiry Date: - Issue No: 102 Version Start Date: 09/01/2017 Version End Date: - |
| - | 990m S | Status: Historical Licence No: 16/52/016/G/028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "BOREHOLE, EASTON-IN-GORDANO" Data Type: Point Name: Welcome Break Group Ltd Easting: 350830 Northing: 175600 | Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 31/05/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1998 Version End Date: - |
| - | 990m S | Status: Active Licence No: 16/52/016/G/028 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: BOREHOLE, EASTON-IN-GORDANO Data Type: Point Name: Welcome Break Group Ltd Easting: 350830 Northing: 175600 | Annual Volume (m³): 35,040 Max Daily Volume (m³): 96 Original Application No: - Original Start Date: 31/05/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1998 Version End Date: - |



| ID | Location | Details | |
|----|----------|--|--|
| - | 1793m E | Status: Historical Licence No: 18/54/020/G/129 Details: Non-Evaporative Cooling Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 3 Data Type: Point Name: Rhodia UK Limited Easting: 352950 Northing: 177600 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 4146.04 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2005 Version End Date: - |
| - | 1793m E | Status: Historical Licence No: 18/54/020/G/129 Details: Process Water Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 3 Data Type: Point Name: Rhodia UK Limited Easting: 352950 Northing: 177600 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 4146.04 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2005 Version End Date: - |
| - | 1882m E | Status: Historical Licence No: 18/54/020/G/129 Details: Non-Evaporative Cooling Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 1 Data Type: Point Name: Rhodia UK Limited Easting: 353040 Northing: 177610 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 4146.04 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2005 Version End Date: - |
| - | 1882m E | Status: Historical Licence No: 18/54/020/G/129 Details: Process Water Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 1 Data Type: Point Name: Rhodia UK Limited Easting: 353040 Northing: 177610 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 4146.04 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2005 Version End Date: - |
| - | 1985m E | Status: Historical Licence No: 18/54/020/G/129 Details: Process Water Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 2 Data Type: Point Name: Rhodia UK Limited Easting: 353150 Northing: 177600 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 3000 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/03/2008 Version End Date: - |



| ID | Location | Details | |
|----|----------|--|---|
| - | 1985m E | Status: Historical Licence No: 18/54/020/G/129 Details: Non-Evaporative Cooling Direct Source: Ground Water - Fresh Point: PEN POLE - BOREHOLE 2 Data Type: Point Name: Rhodia UK Limited Easting: 353150 Northing: 177600 | Annual Volume (m ³): 1,513,302 Max Daily Volume (m ³): 3000 Original Application No: - Original Start Date: 08/07/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/03/2008 Version End Date: - |

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

| | |
|-----------------------------|----------|
| Records within 2000m | 0 |
|-----------------------------|----------|

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

| | |
|-----------------------------|----------|
| Records within 2000m | 0 |
|-----------------------------|----------|

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

| | |
|----------------------------|----------|
| Records within 500m | 0 |
|----------------------------|----------|

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



Appendix C1 - Site Photographs (Current Area)



Raw Material Storage



Raw Material Storage



Raw material storage



Gypsum store



Recycled plasterboard store



Flammable materials store



Factory Floor



Production Line



Segregated storage and vehicle movement areas



View along gas oven, hardstanding floor, impact barrier to right



Gas oven



Millifoam vessel



Plaster extrusion point



Waste Segregation



Waste Segregation



Waste Storage



Waste storage and labelling



Pollution Control Valve

Appendix C2 - Site Photographs (Proposed Area)



View NE from Redland Avenue.



View SW from Redland Avenue.



View S from existing factory SE corner.
proposed meets existing site.



Pile mat under construction.



View E of stockpiled materials



View S of pile mat under construction.



View NE of development works W of existing building;
Water tanks in the background.

Appendix D – Historical Ordnance Survey Mapping

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

- Chalk Pit, Clay Pit or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Lake, Loch or Pond
- Dunes
- Boulders
- Coniferous Trees
- Non-Coniferous Trees
- Orchard
- Scrub
- Coppice
- Bracken
- Heath
- Rough Grassland
- Marsh
- Reeds
- Saltings
- Building
- Glasshouse
- Sloping Masonry
- Pylon
- Electricity Transmission Line
- Pole
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- Siding, Tramway or Mineral Line
- Narrow Gauge
- Geographical County
- Administrative County, County Borough or County of City
- Municipal Borough, Urban or Rural District, Burgh or District Council
- Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
- Civil Parish
Shown alternately when coincidence of boundaries occurs
- BP, BS Boundary Post or Stone
- Ch Church
- CH Club House
- F E Sta Fire Engine Station
- FB Foot Bridge
- Fn Fountain
- GP Guide Post
- MP Mile Post
- MS Mile Stone
- Pol Sta Police Station
- PO Post Office
- PC Public Convenience
- PH Public House
- SB Signal Box
- Spr Spring
- TCB Telephone Call Box
- TCP Telephone Call Post
- W Well

1:10,000 Raster Mapping

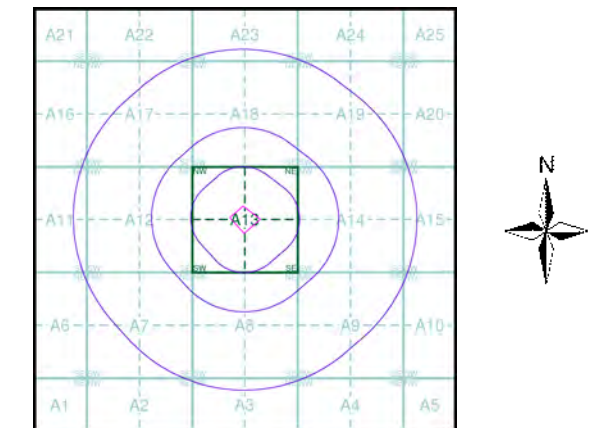
- Gravel Pit
- Rock
- Boulders
- Shingle
- Sand
- Slopes
- General detail
- Overhead detail
- Multi-track railway
- County boundary (England only)
- District, Unitary, Metropolitan, London Borough boundary
- Area of wooded vegetation
- Non-coniferous trees (scattered)
- Coniferous trees (scattered)
-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



Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|----------------------|----------|-------------|----|
| Somerset | 1:10,560 | 1884 | 3 |
| Gloucestershire | 1:10,560 | 1887 | 4 |
| Monmouthshire | 1:10,560 | 1887 | 5 |
| Monmouthshire | 1:10,560 | 1903 | 6 |
| Somerset | 1:10,560 | 1904 | 7 |
| Gloucestershire | 1:10,560 | 1904 | 8 |
| Somerset | 1:10,560 | 1920 | 9 |
| Somerset | 1:10,560 | 1920 | 10 |
| Gloucestershire | 1:10,560 | 1921 | 11 |
| Gloucestershire | 1:10,560 | 1921 | 12 |
| Monmouthshire | 1:10,560 | 1922 | 13 |
| Gloucestershire | 1:10,560 | 1938 | 14 |
| Ordnance Survey Plan | 1:10,000 | 1955 | 15 |
| Ordnance Survey Plan | 1:10,000 | 1961 | 16 |
| Ordnance Survey Plan | 1:10,000 | 1970 | 17 |
| Bristol | 1:10,000 | 1972 | 18 |
| Ordnance Survey Plan | 1:10,000 | 1981 - 1982 | 19 |
| Ordnance Survey Plan | 1:10,000 | 1992 | 20 |
| 10K Raster Mapping | 1:10,000 | 2006 | 21 |
| 10K Raster Mapping | 1:10,000 | 2013 | 22 |

Historical Map - Slice A



Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



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

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 | | Natural Gas Tank |
| | Tailings Pile | | Fuel Storage Tanks |
| | Bench Mark | | Drill Hole |
| | Burial Mound | | Triangulation Point on Burial Mound |
| | Single-track Railroad | | Double-track Railroad |
| | Small Bridge | | Pipe (Culvert) |
| | Tunnel | | 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
180/12 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 | | Telegraph Office |
| | Telephone Station | | Radio Station |
| | Radio Tower | | Airfield or Seaplane Base |
| | Landing Strip | | Cut |
| | Fill | | Km Post |
| | Plantings | | Width of Road |
| | Steep Grade | | Telegraph/Telephone Lines |
| | Main Highway | | Highway under Construction |
| | Improved Dirt Road (former truck road) | | Small Bridge |
| | Pipe (Culvert) | | Tunnel |
| | Dismantled Railroad | | Double-track Railroad with First Class Station |
| | Railroad Under Construction | | Shore Embankment |
| | River or Ditch with Embankment | | Water Gauge |
| | Direction and velocity of current | | Water Level Mark |
| | 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

ST57NW_Bristol

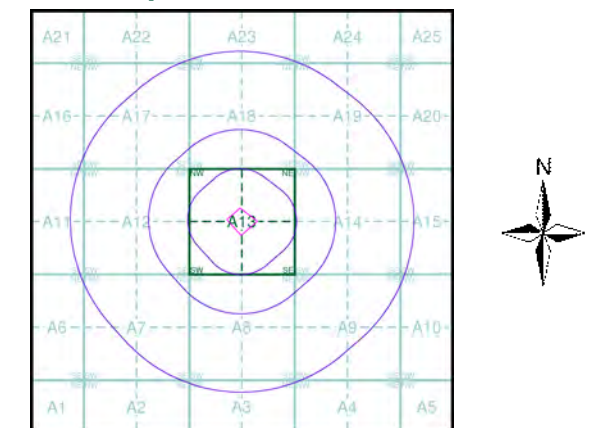
| No. | Description |
|-----|---|
| 10 | Factory (Use Unknown) |
| 28 | Factory (Metal Works) |
| 79 | Storage (Flammable And Lubricant Materials) |
| 102 | Police Station/Headquarters |
| 121 | Storage (Grain) |



Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|----------------------|----------|-------------|----|
| Somerset | 1:10,560 | 1884 | 3 |
| Gloucestershire | 1:10,560 | 1887 | 4 |
| Monmouthshire | 1:10,560 | 1887 | 5 |
| Monmouthshire | 1:10,560 | 1903 | 6 |
| Somerset | 1:10,560 | 1904 | 7 |
| Gloucestershire | 1:10,560 | 1904 | 8 |
| Somerset | 1:10,560 | 1920 | 9 |
| Somerset | 1:10,560 | 1920 | 10 |
| Gloucestershire | 1:10,560 | 1921 | 11 |
| Gloucestershire | 1:10,560 | 1921 | 12 |
| Monmouthshire | 1:10,560 | 1922 | 13 |
| Gloucestershire | 1:10,560 | 1938 | 14 |
| Ordnance Survey Plan | 1:10,000 | 1955 | 15 |
| Ordnance Survey Plan | 1:10,000 | 1961 | 16 |
| Ordnance Survey Plan | 1:10,000 | 1970 | 17 |
| Bristol | 1:10,000 | 1972 | 18 |
| Ordnance Survey Plan | 1:10,000 | 1981 - 1982 | 19 |
| Ordnance Survey Plan | 1:10,000 | 1992 | 20 |
| 10K Raster Mapping | 1:10,000 | 2006 | 21 |
| 10K Raster Mapping | 1:10,000 | 2013 | 22 |

Russian Map - Slice A



Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



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

Somerset

Published 1884

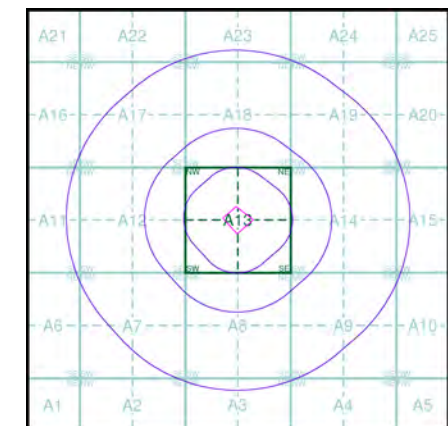
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

| | |
|----------|------|
| 002NE | 1884 |
| 1:10,560 | |
| 002SE | 1884 |
| 1:10,560 | |

Historical Map - Slice A

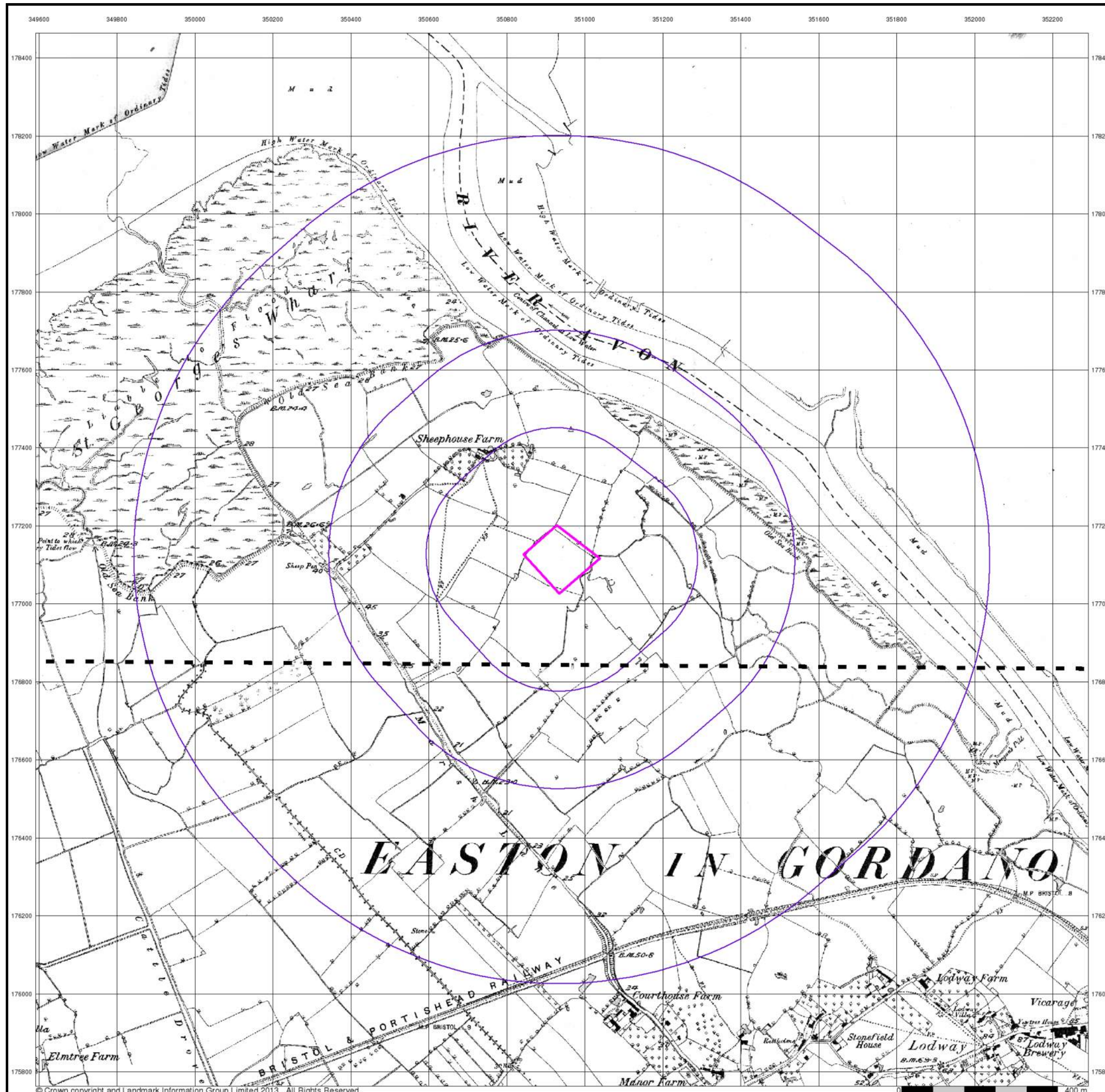


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Gloucestershire

Published 1887

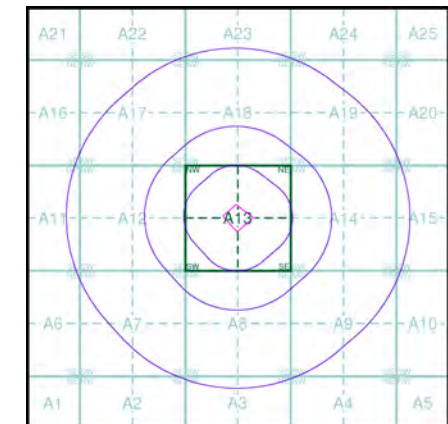
Source map scale - 1:10,560

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)

| | | |
|-------|------|----------|
| 071NW | 1887 | 1:10,560 |
| 071SW | 1887 | 1:10,560 |

Historical Map - Slice A

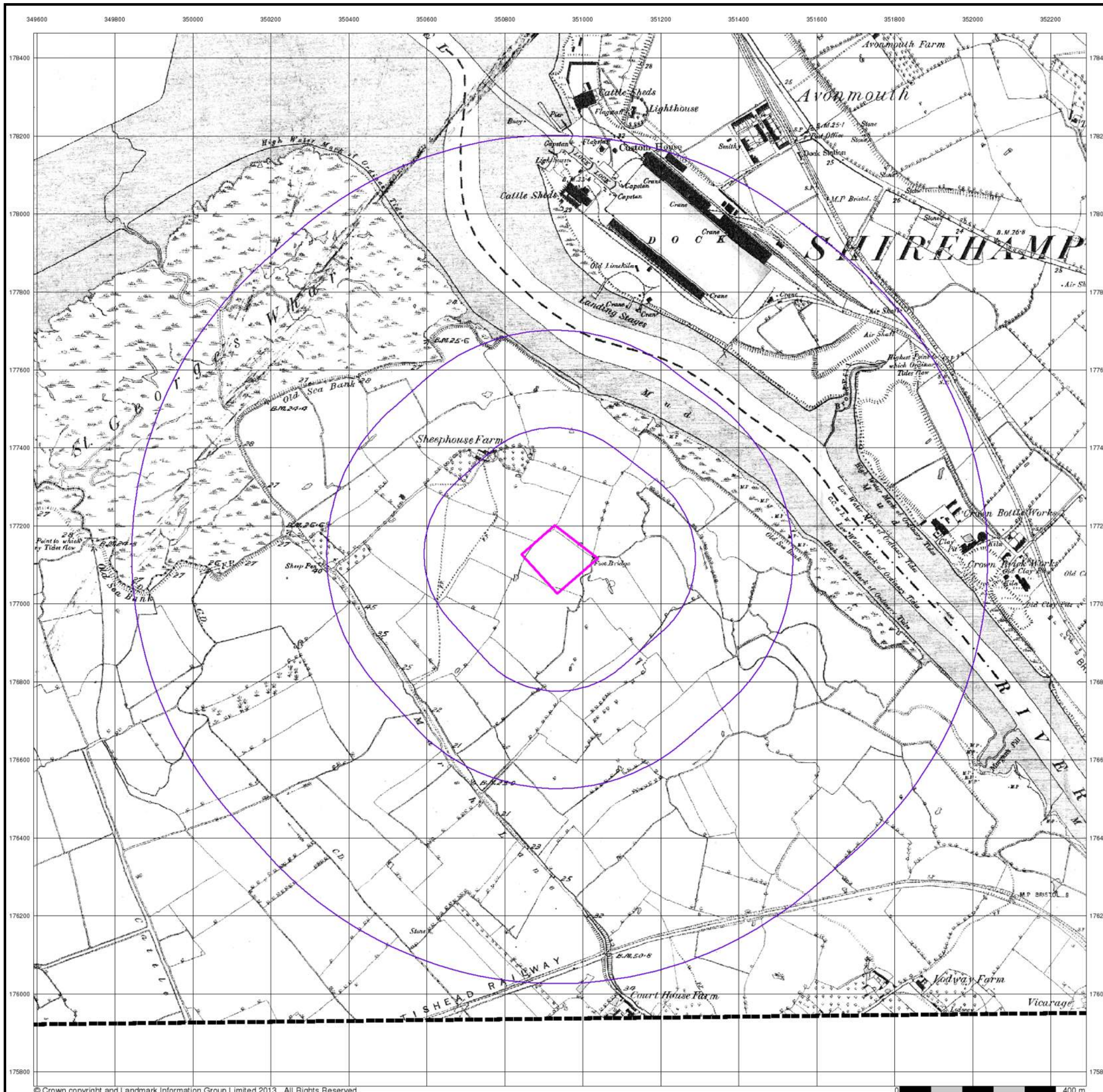


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



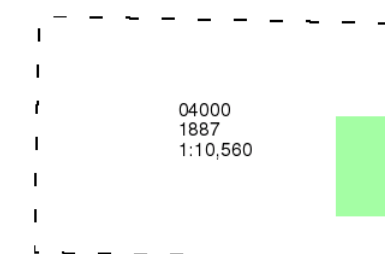
Monmouthshire

Published 1887

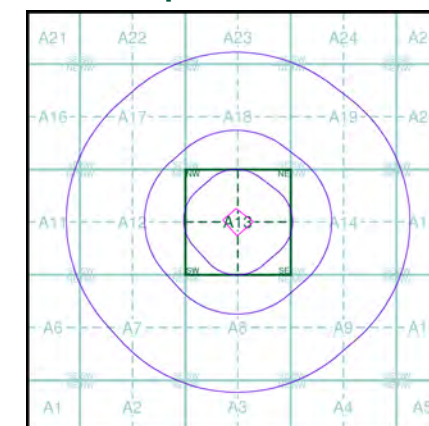
Source map scale - 1:10,560

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)



Historical Map - Slice A

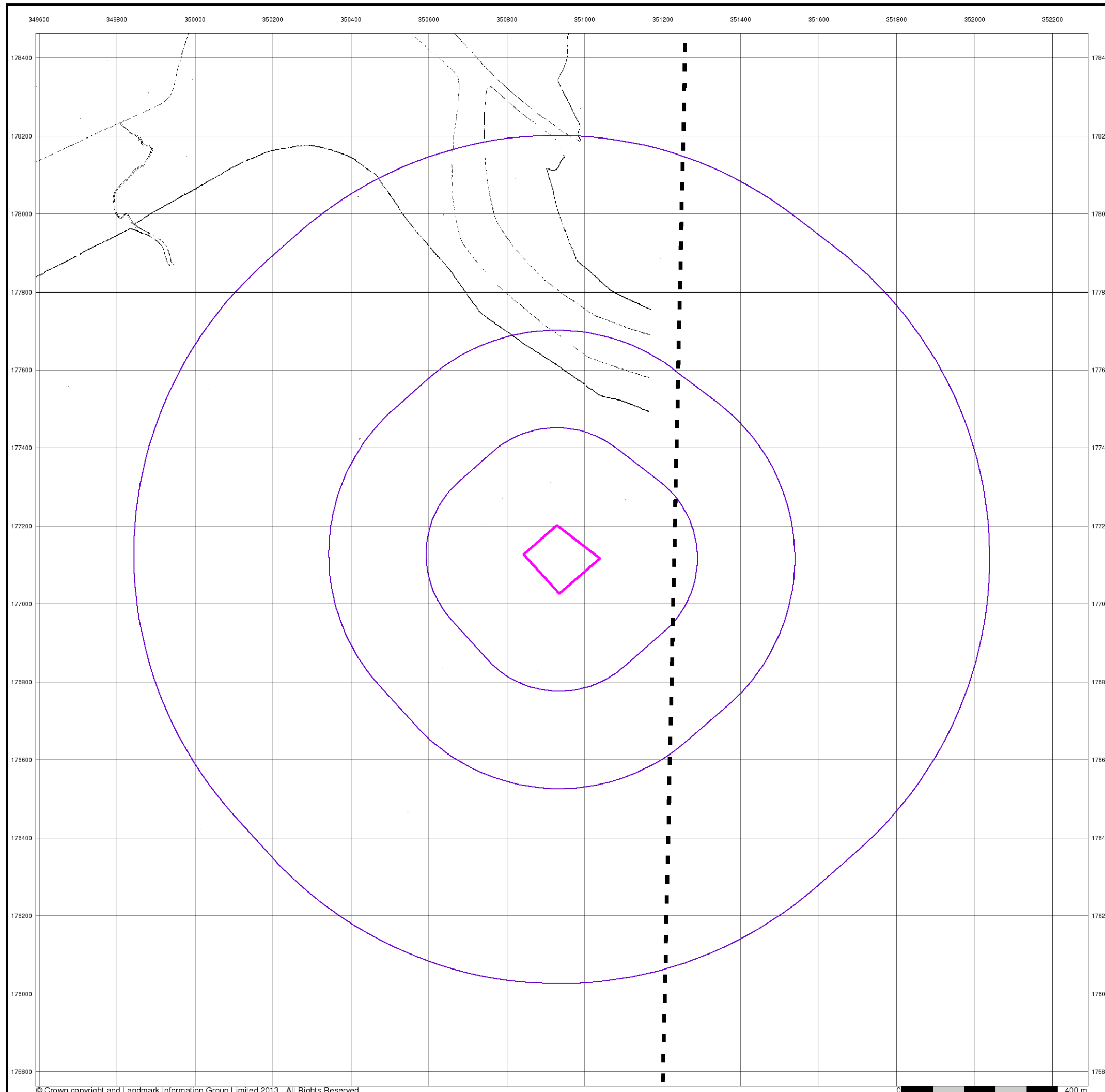


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



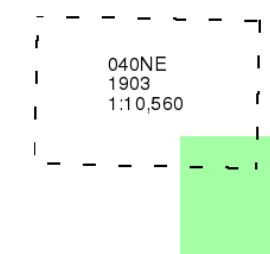
Monmouthshire

Published 1903

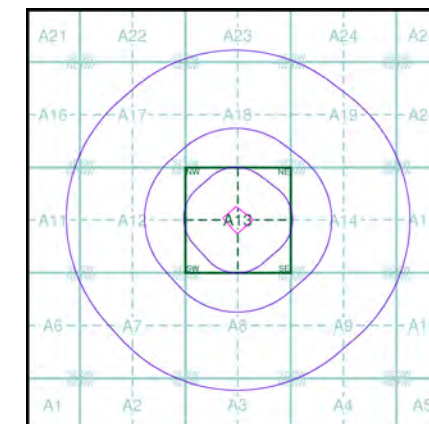
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

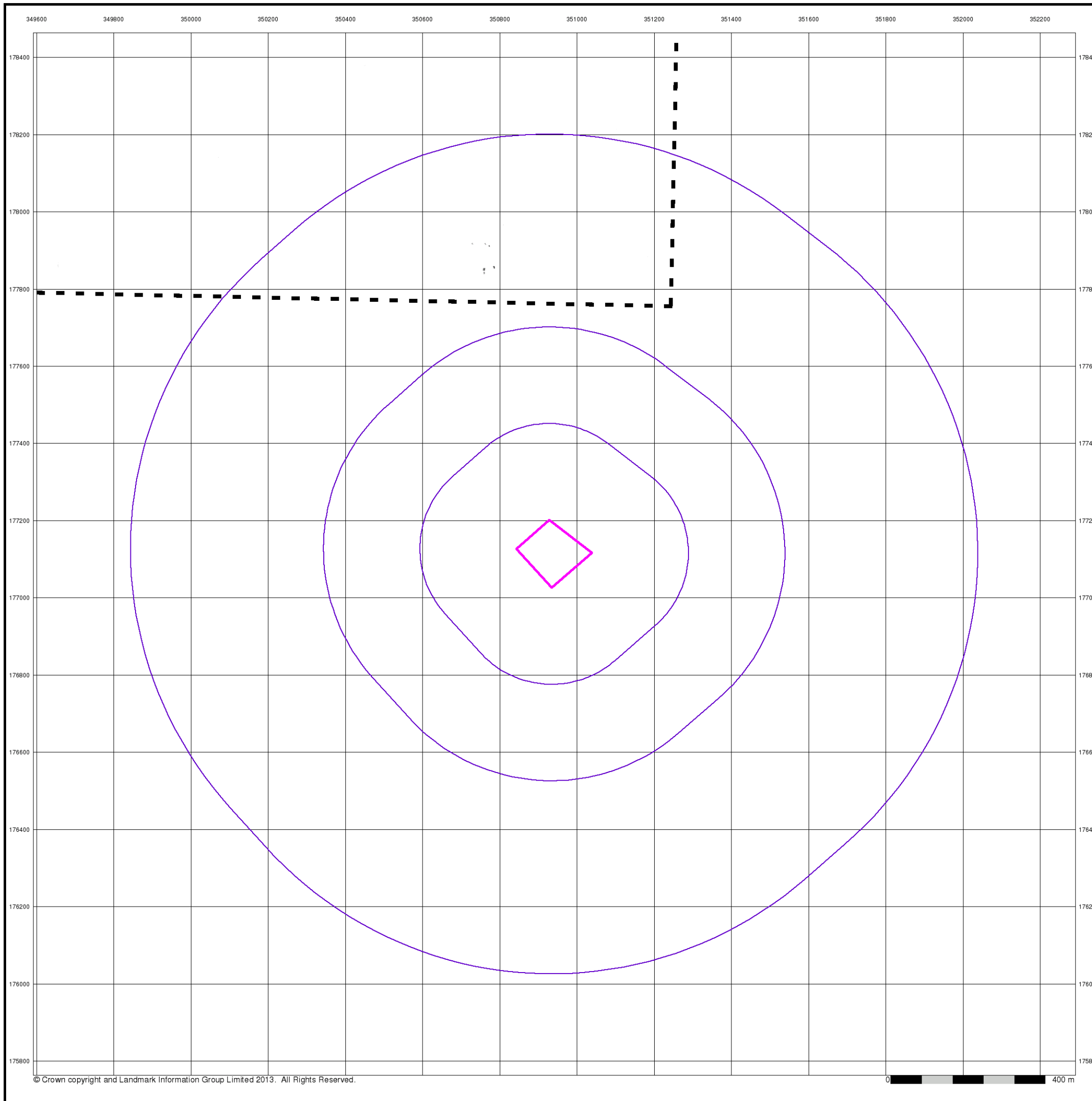


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Somerset

Published 1904

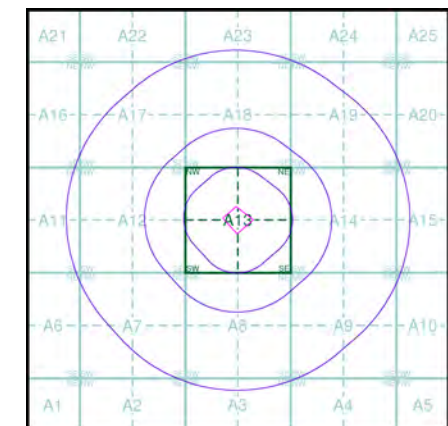
Source map scale - 1:10,560

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.

Map Name(s) and Date(s)

| | |
|----------|------|
| 002NE | 1904 |
| 1:10,560 | |
| 002SE | 1904 |
| 1:10,560 | |

Historical Map - Slice A

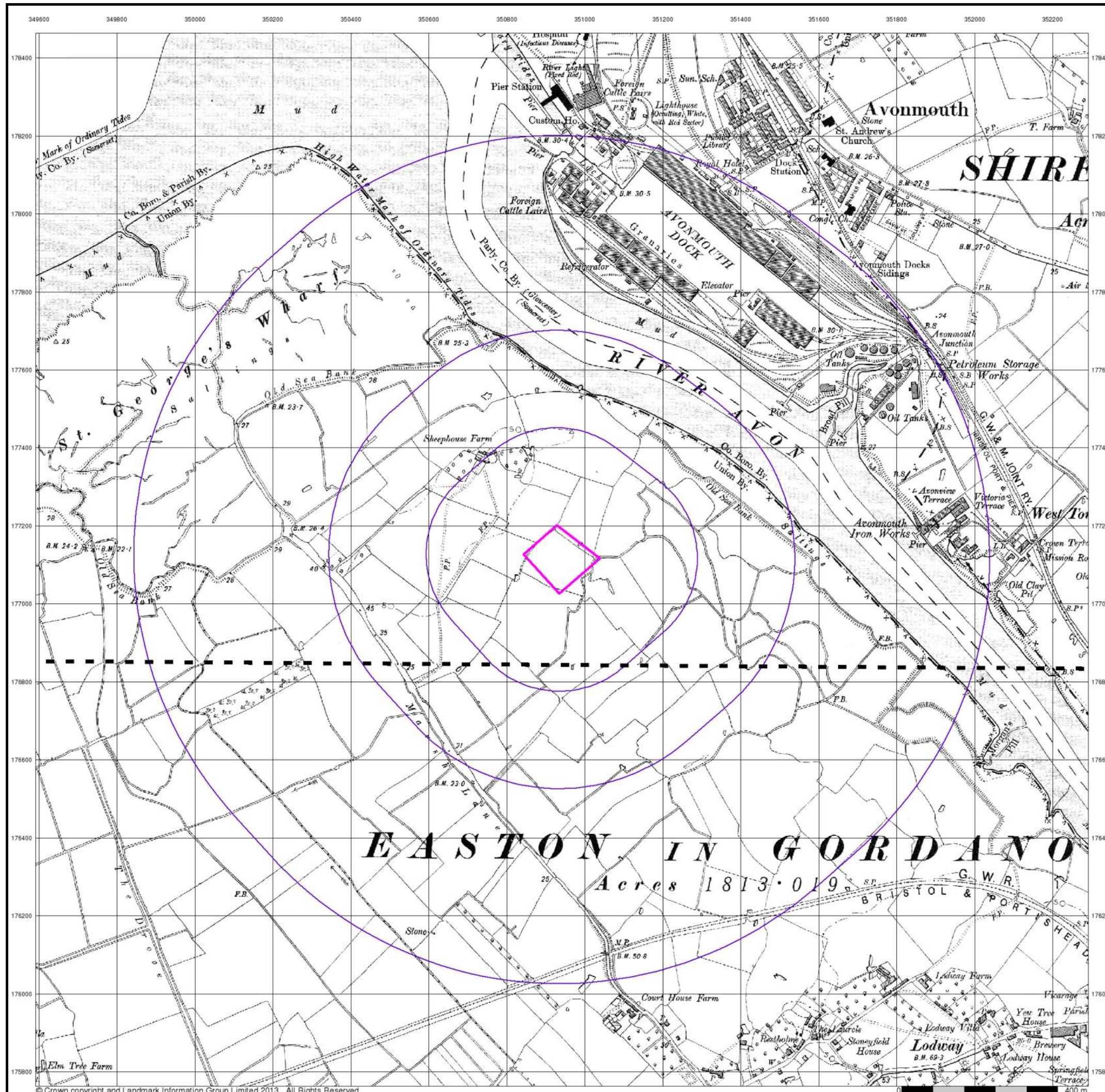


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



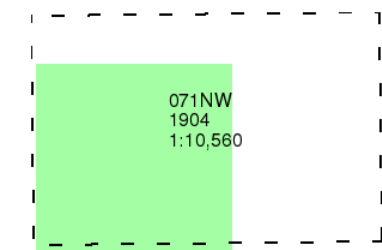
Gloucestershire

Published 1904

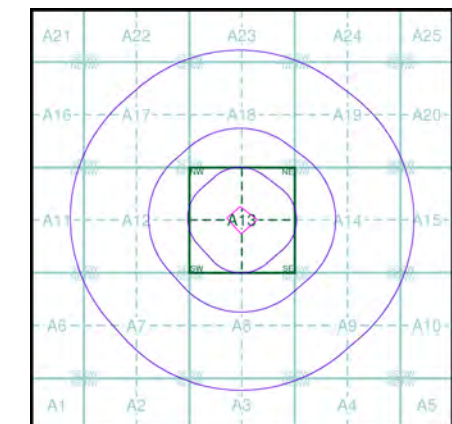
Source map scale - 1:10,560

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.

Map Name(s) and Date(s)



Historical Map - Slice A

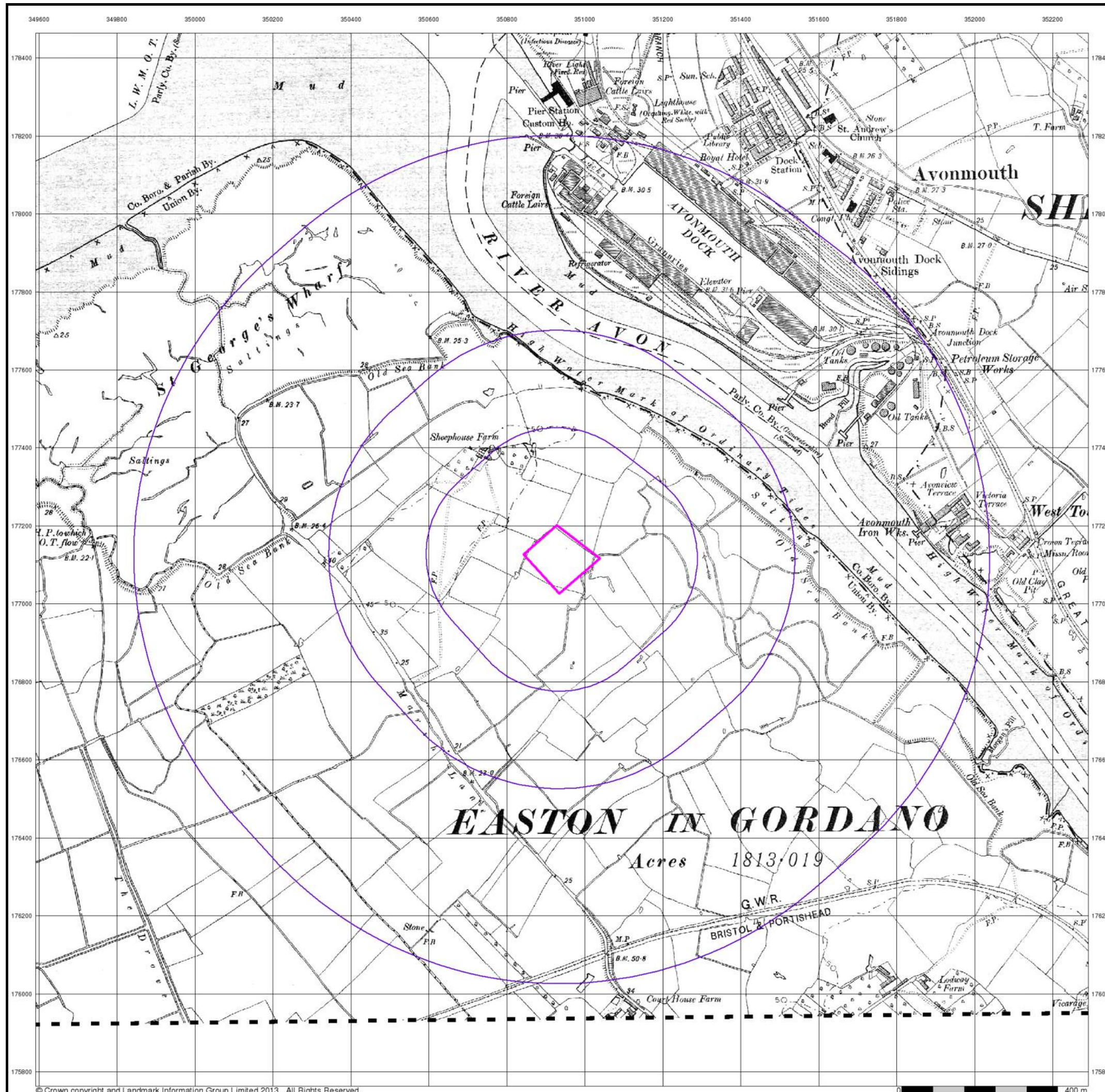


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Somerset

Published 1920

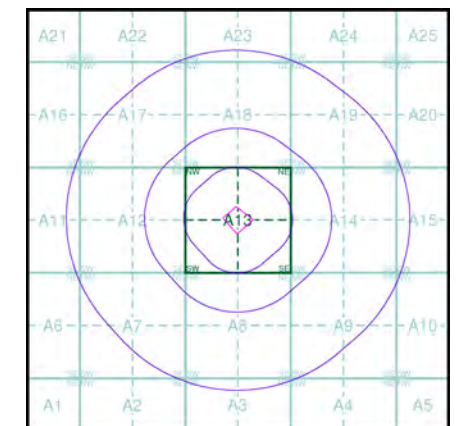
Source map scale - 1:10,560

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)

| | |
|----------|------|
| 002NE | 1920 |
| 1:10,560 | |
| 002SE | 1920 |
| 1:10,560 | |

Historical Map - Slice A

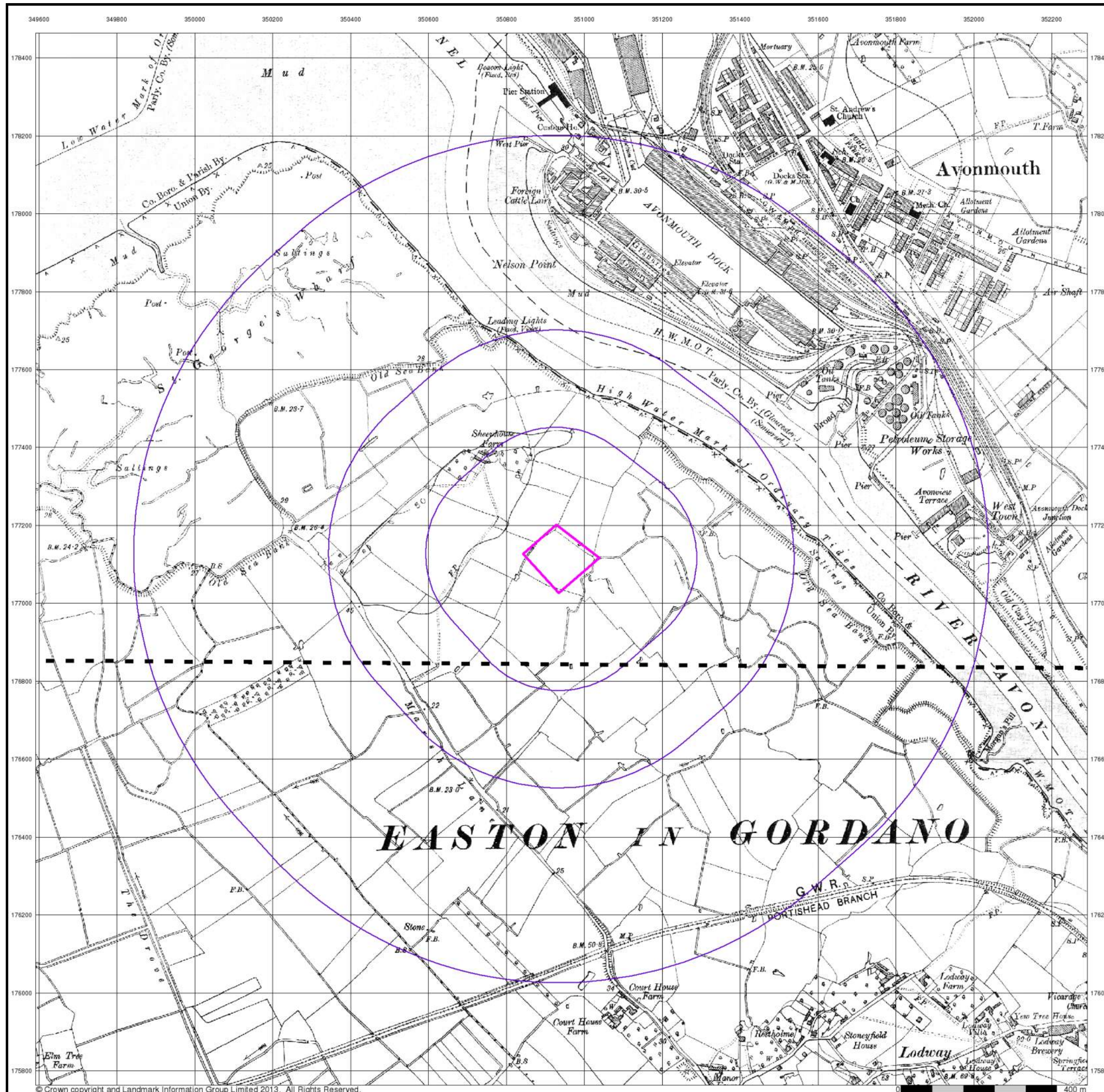


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Somerset

Published 1920

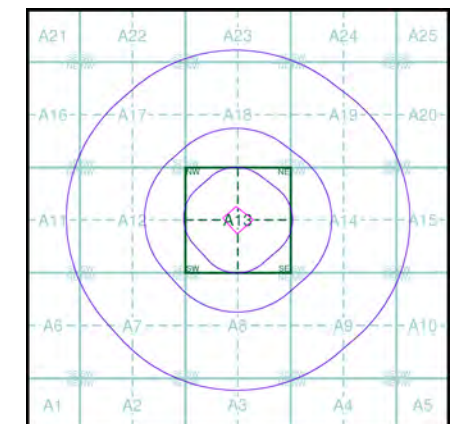
Source map scale - 1:10,560

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)

| | |
|----------|------|
| 002NE | 1920 |
| 1:10,560 | |
| 002SE | 1920 |
| 1:10,560 | |

Historical Map - Slice A

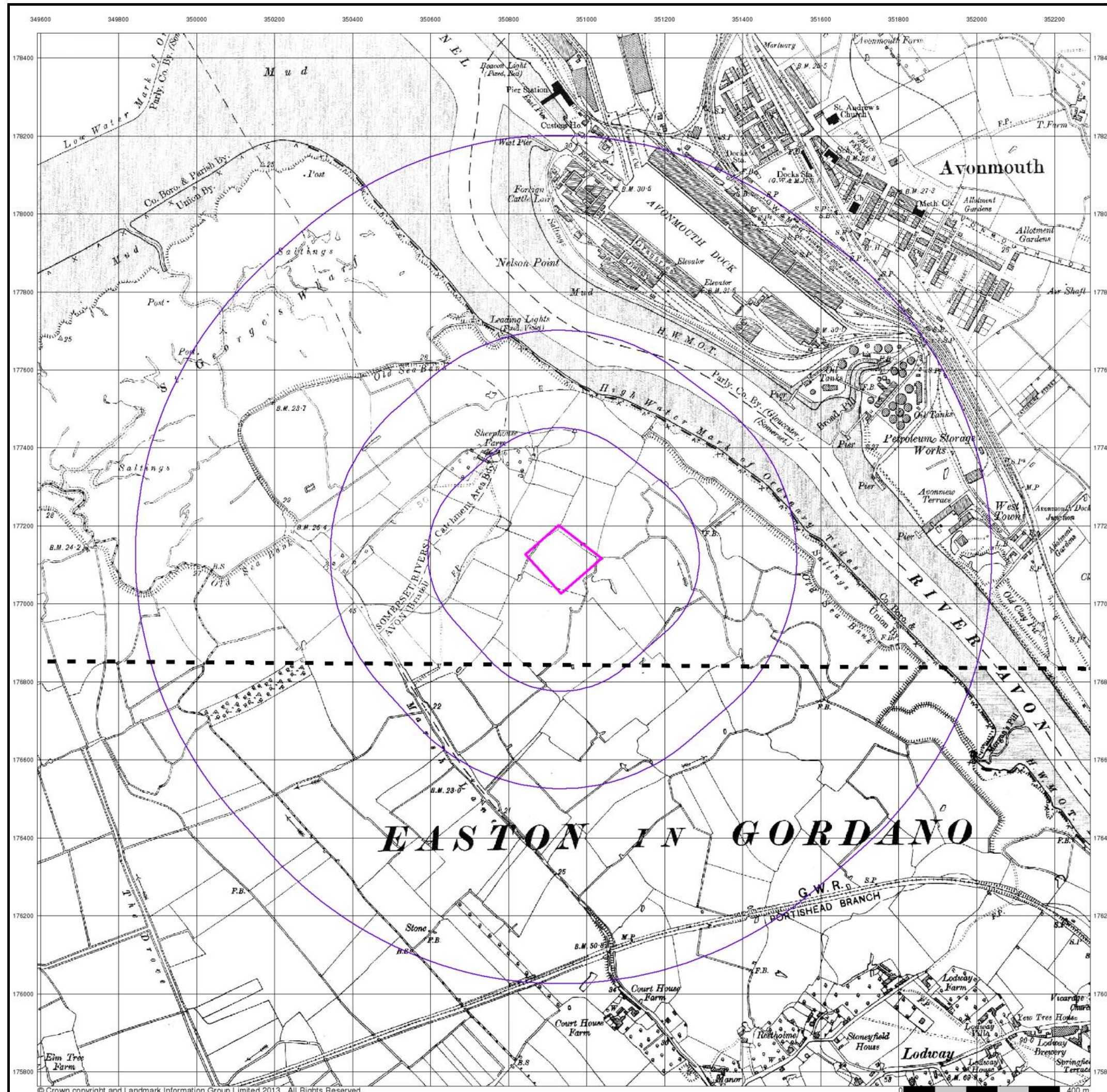


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Gloucestershire

Published 1921

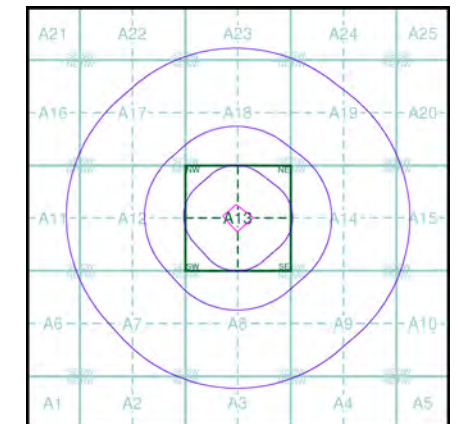
Source map scale - 1:10,560

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)

| | | |
|-------|------|----------|
| 071NW | 1921 | 1:10,560 |
| 071SW | 1921 | 1:10,560 |

Historical Map - Slice A

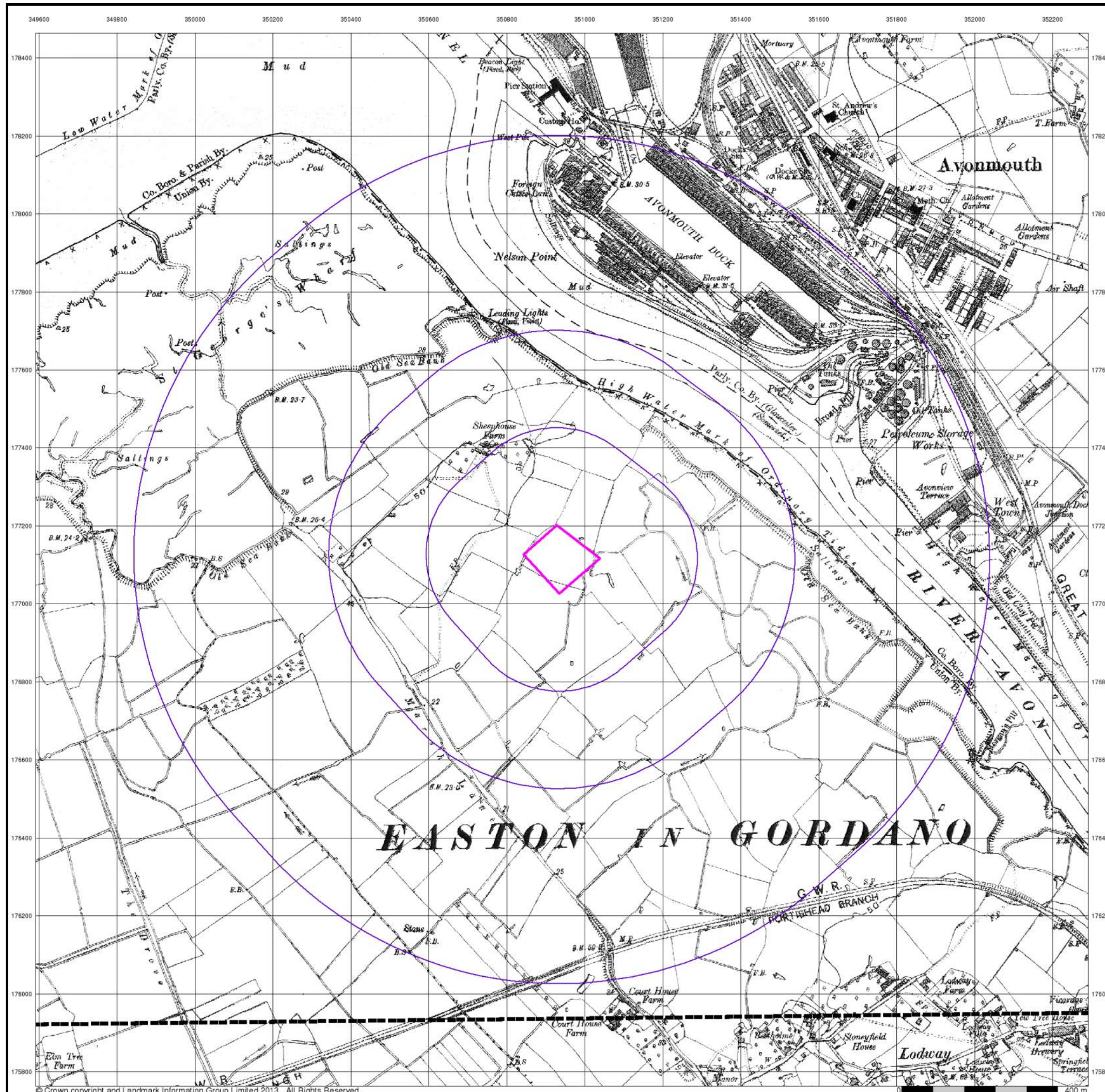


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



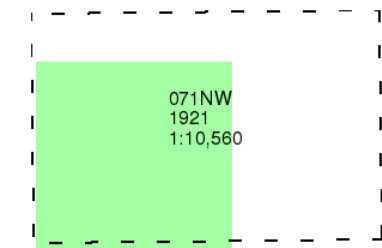
Gloucestershire

Published 1921

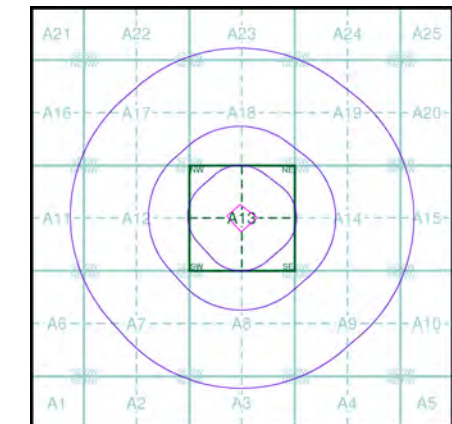
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

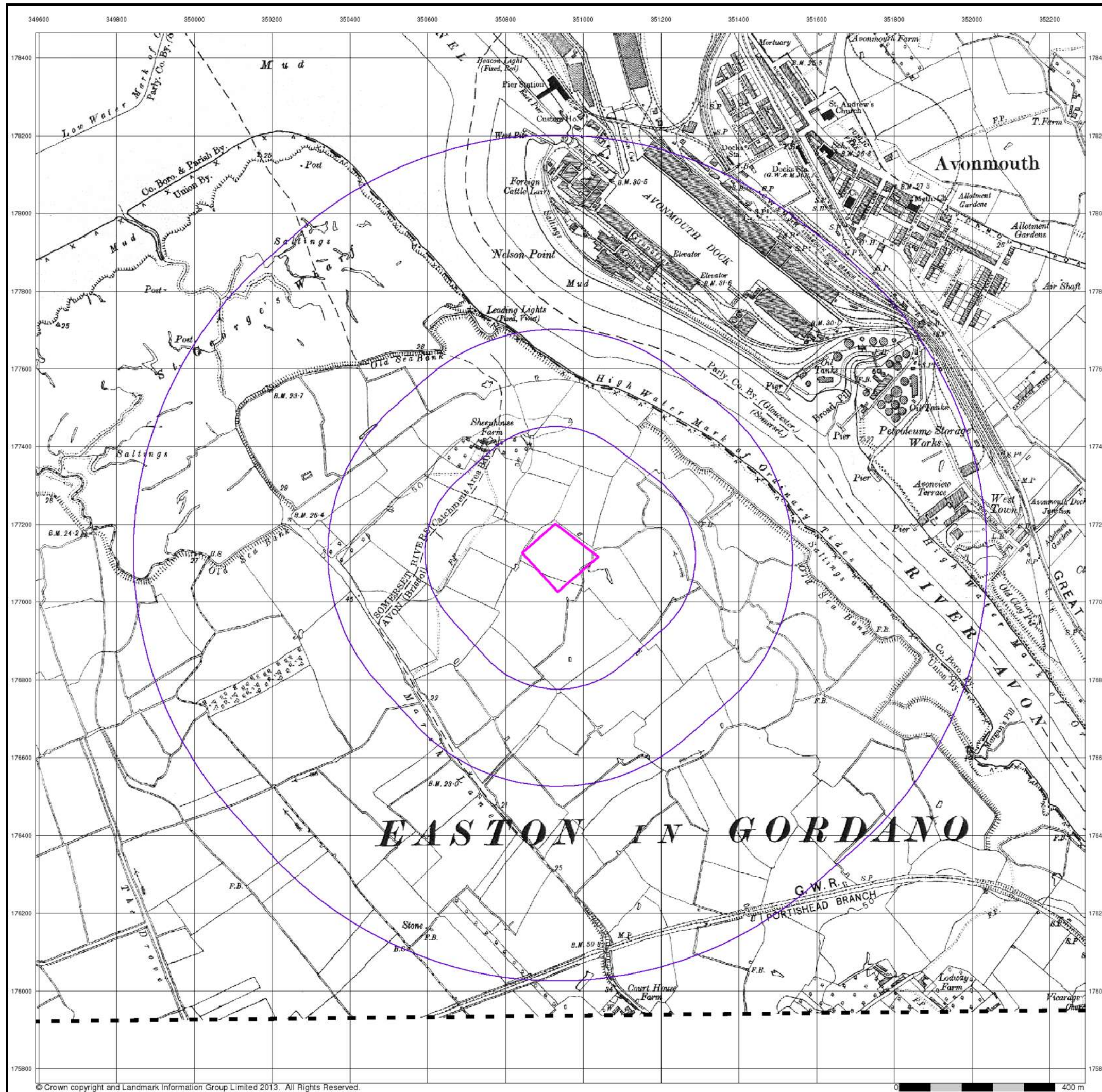


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



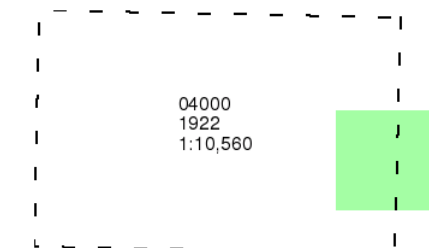
Monmouthshire

Published 1922

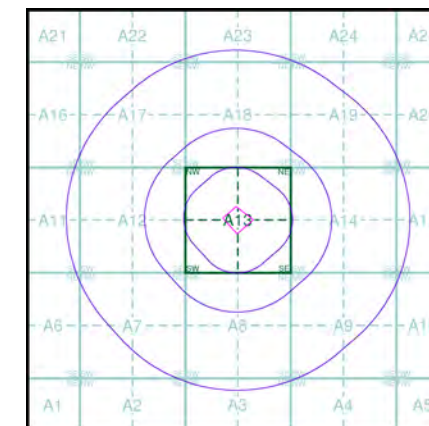
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

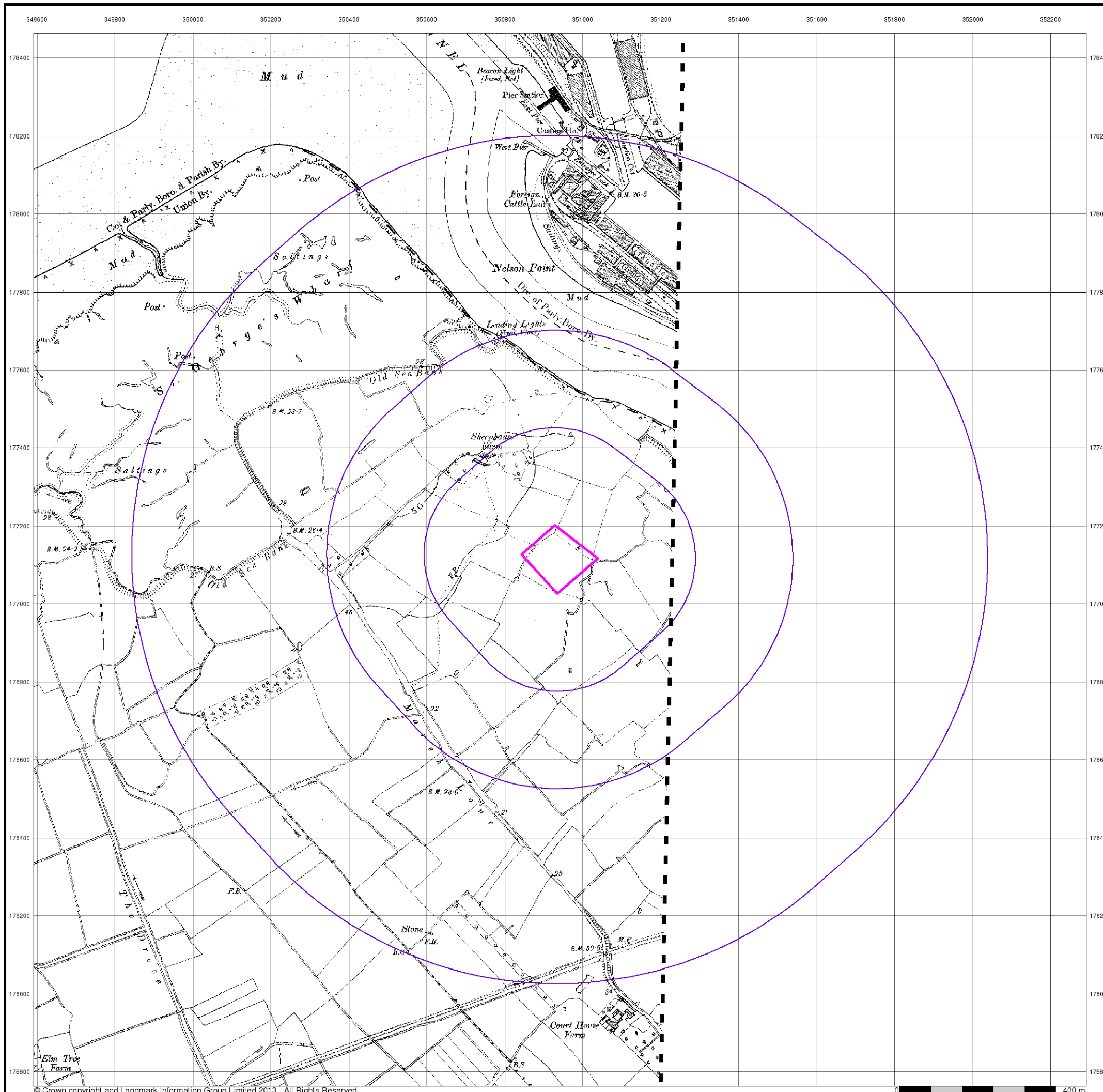


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Gloucestershire

Published 1938

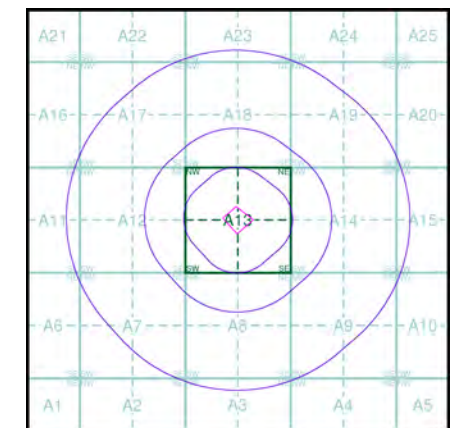
Source map scale - 1:10,560

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)

| | | |
|-------|------|----------|
| 071NW | 1938 | 1:10,560 |
| 071SW | 1938 | 1:10,560 |

Historical Map - Slice A

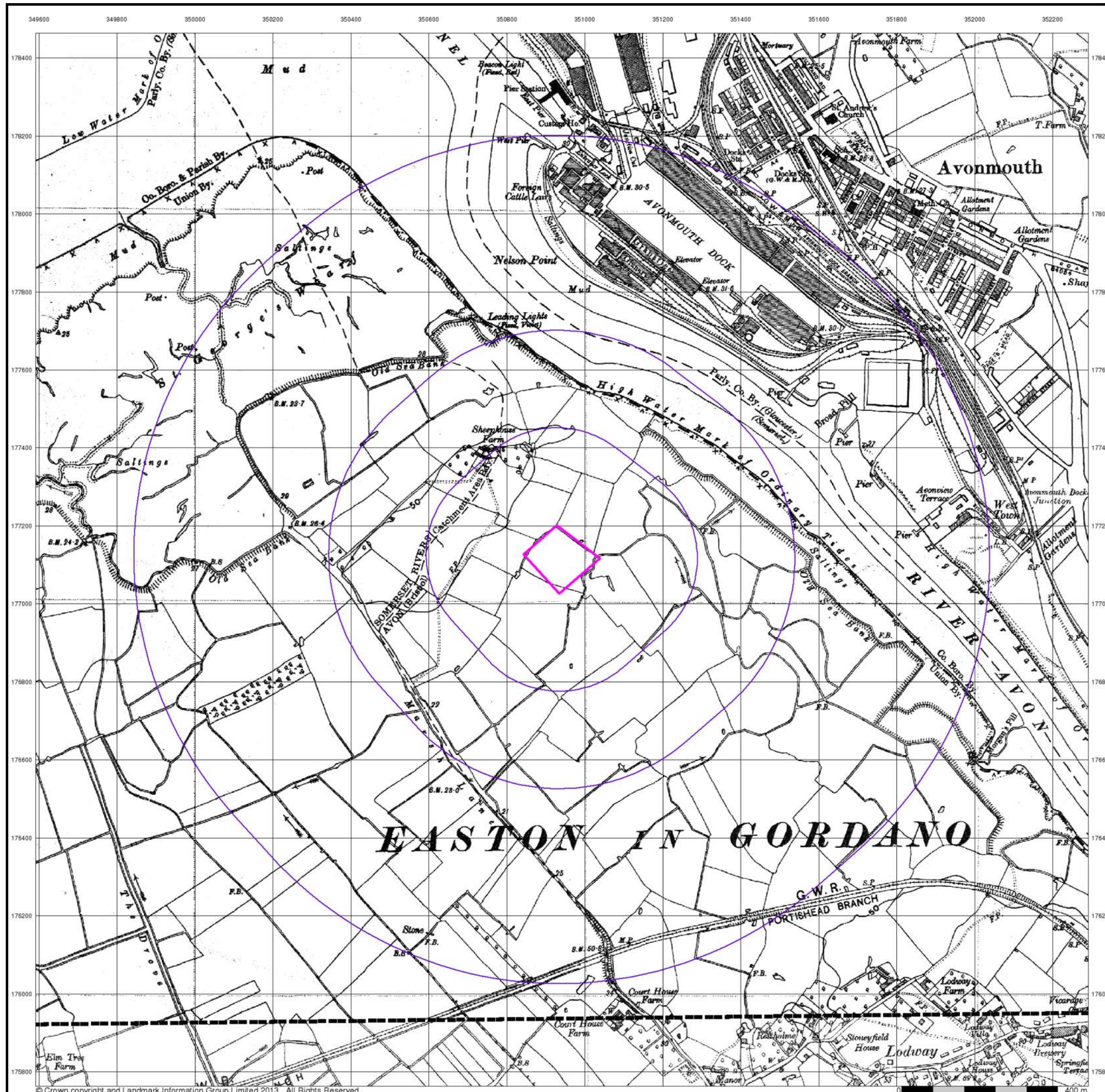


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



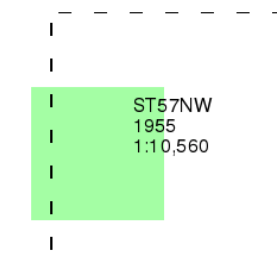
Ordnance Survey Plan

Published 1955

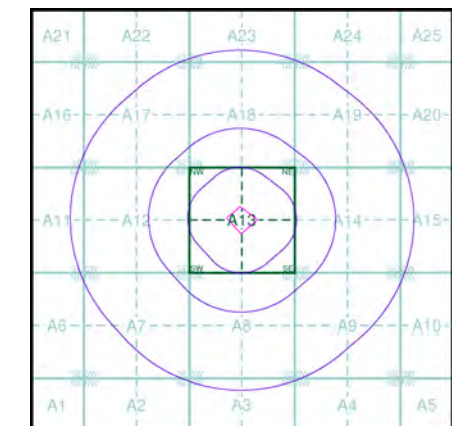
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

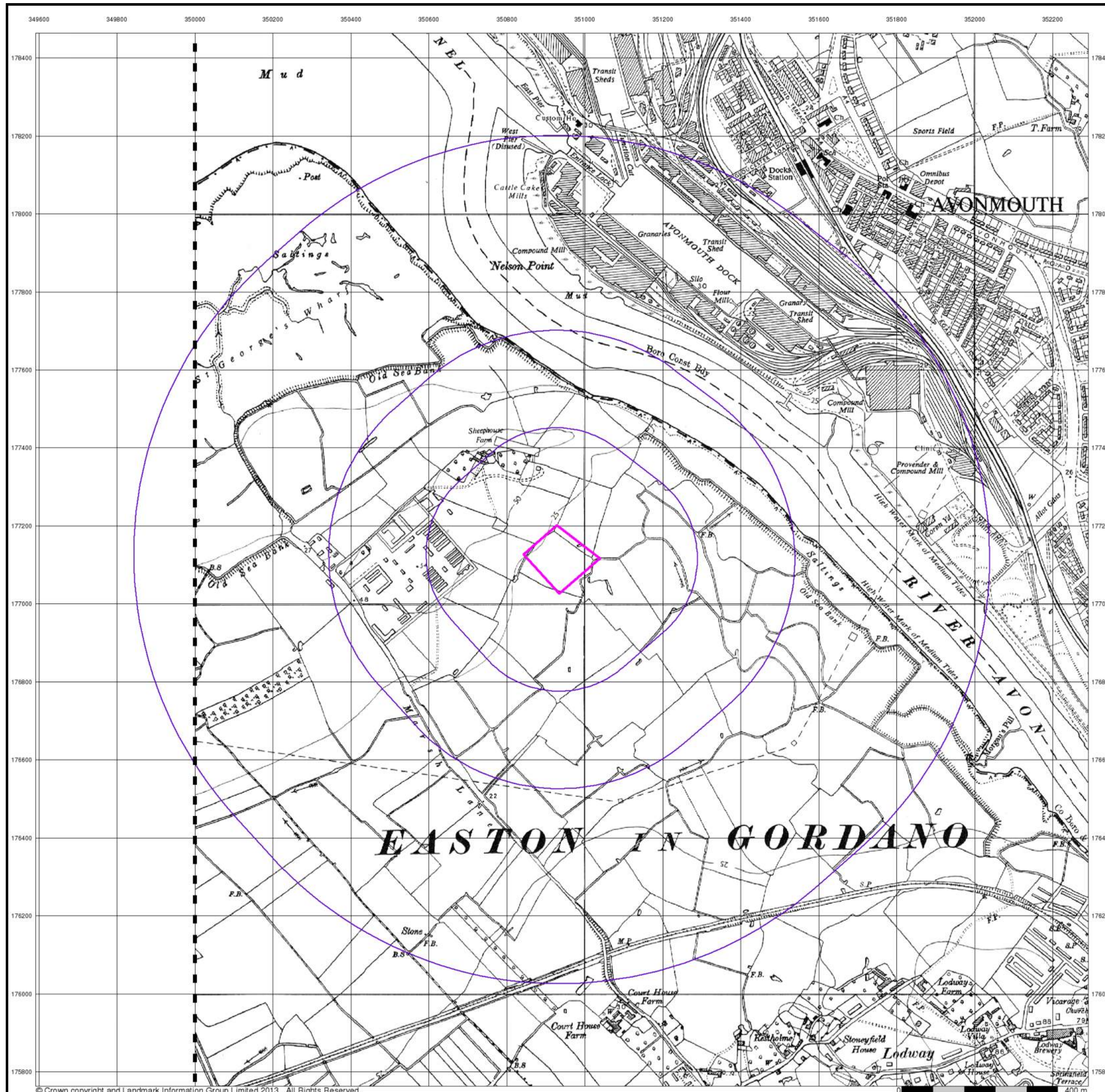


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



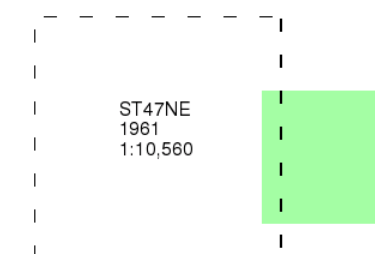
Ordnance Survey Plan

Published 1961

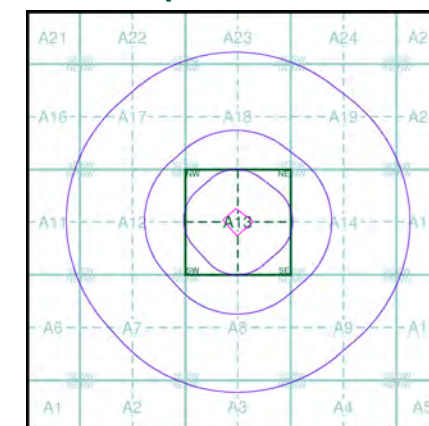
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

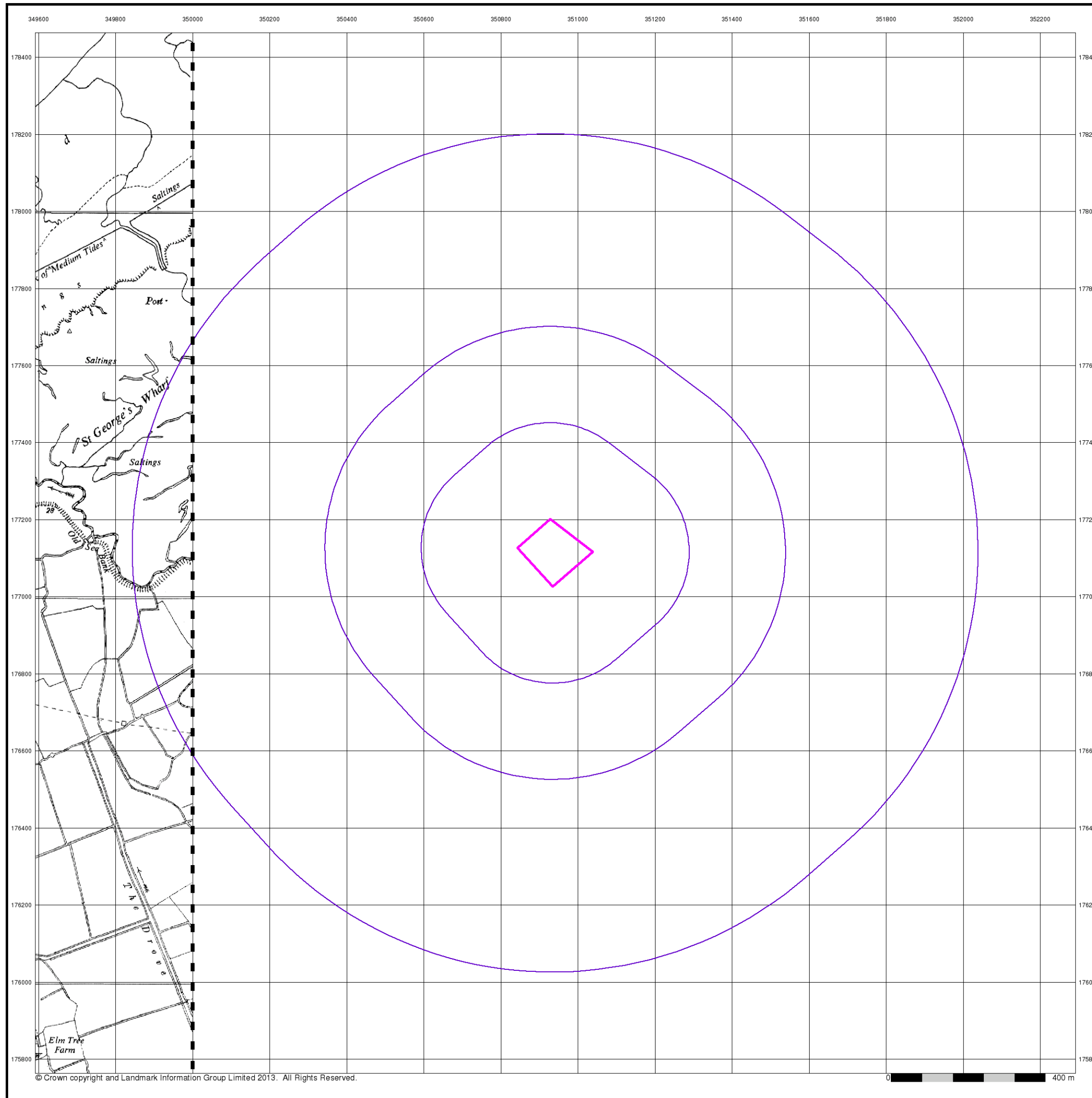


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



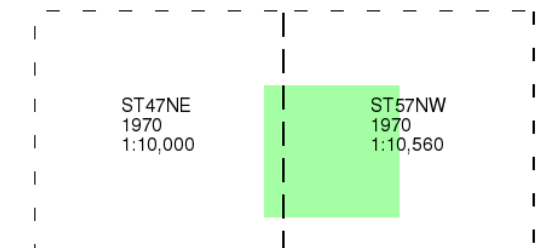
Ordnance Survey Plan

Published 1970

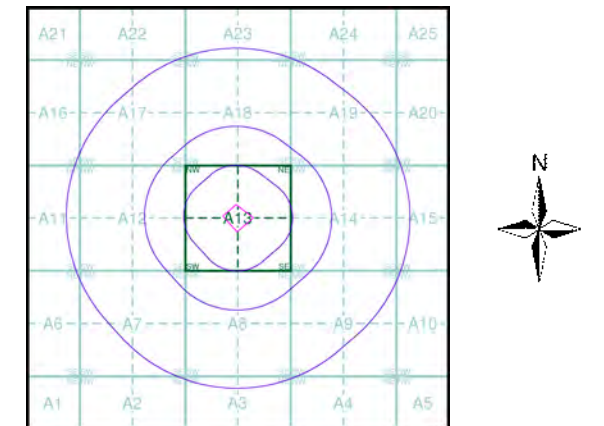
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

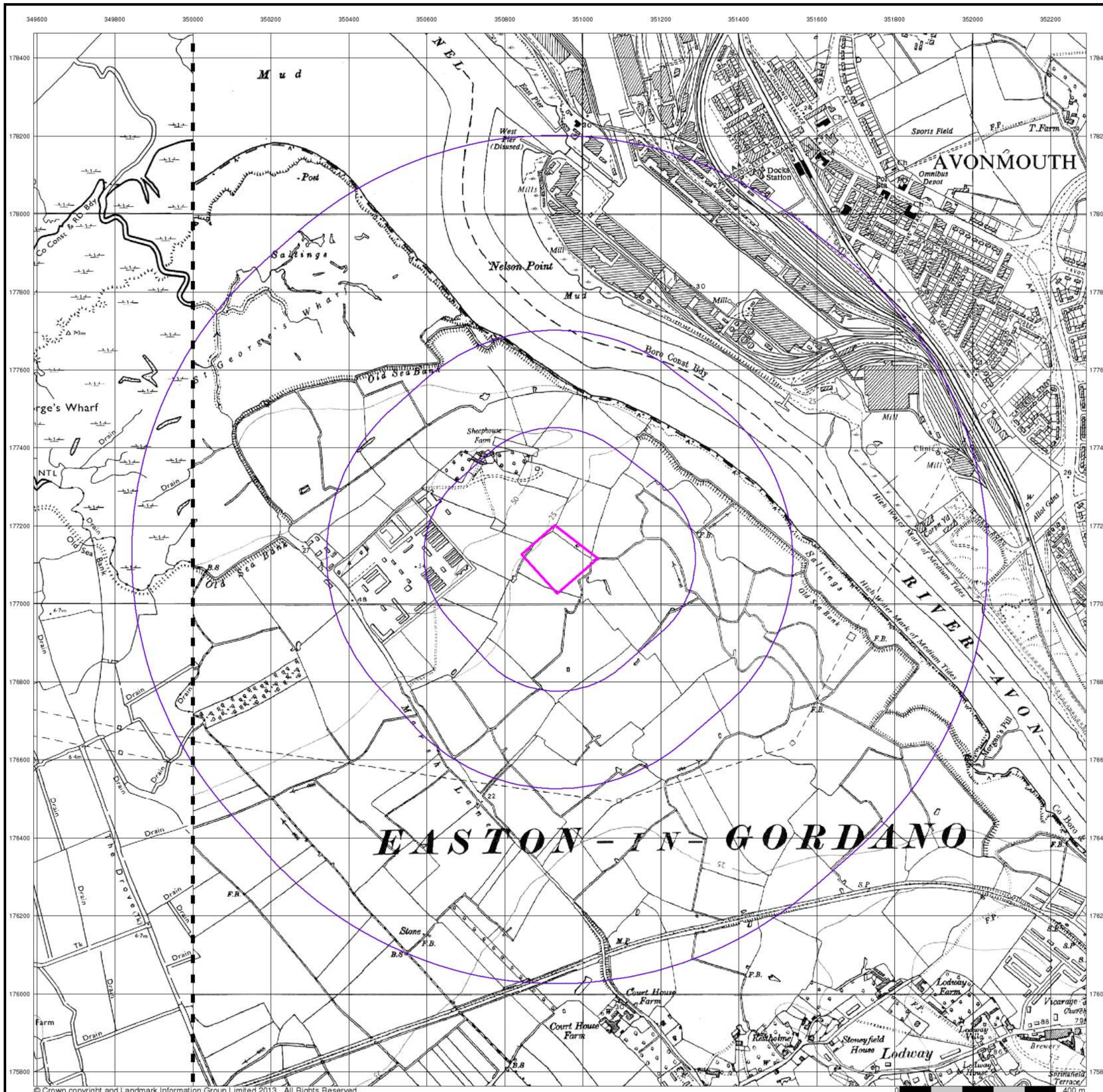


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Bristol

Published 1972

Source map scale - 1:10,000

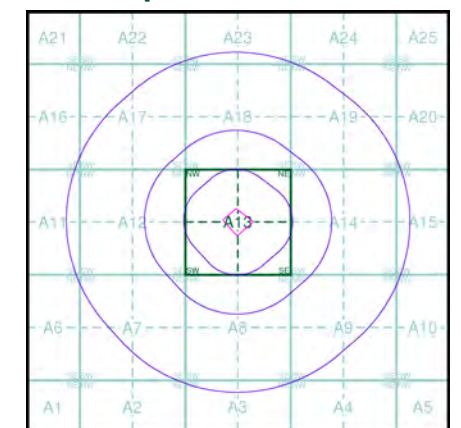
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed 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)

| | |
|----------------------------|----------------------------|
| ST47NE 1972 1:10,000 | ST57NW 1972 1:10,000 |
|----------------------------|----------------------------|

Russian Map - Slice A

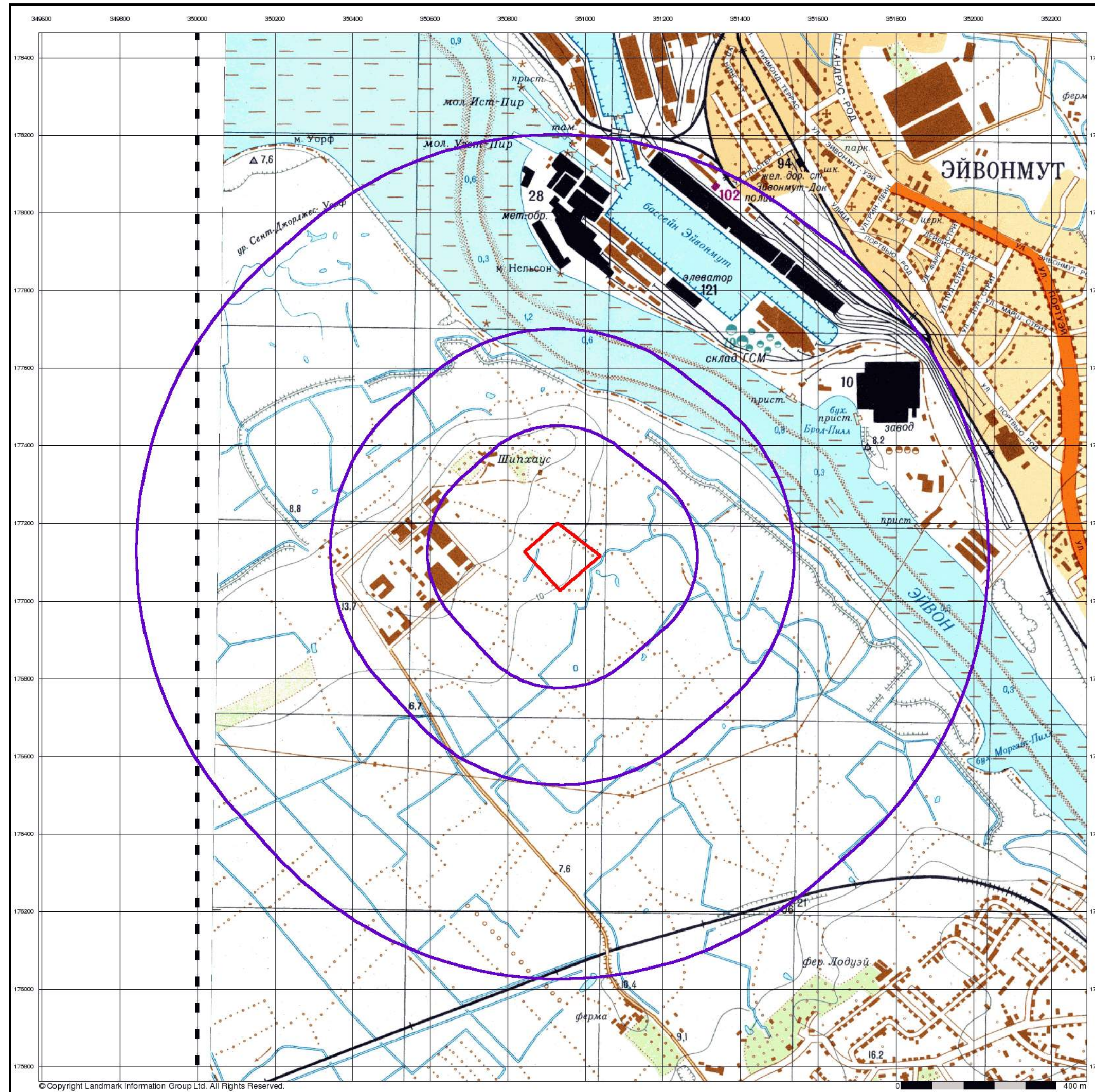


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Ordnance Survey Plan

Published 1981 - 1982

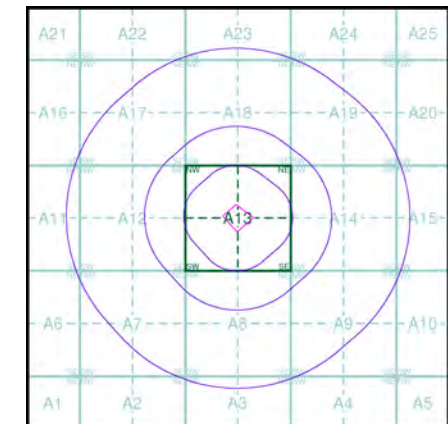
Source map scale - 1:10,000

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)

| | |
|----------------------------|----------------------------|
| ST47NE 1981 1:10,000 | ST57NW 1982 1:10,000 |
|----------------------------|----------------------------|

Historical Map - Slice A

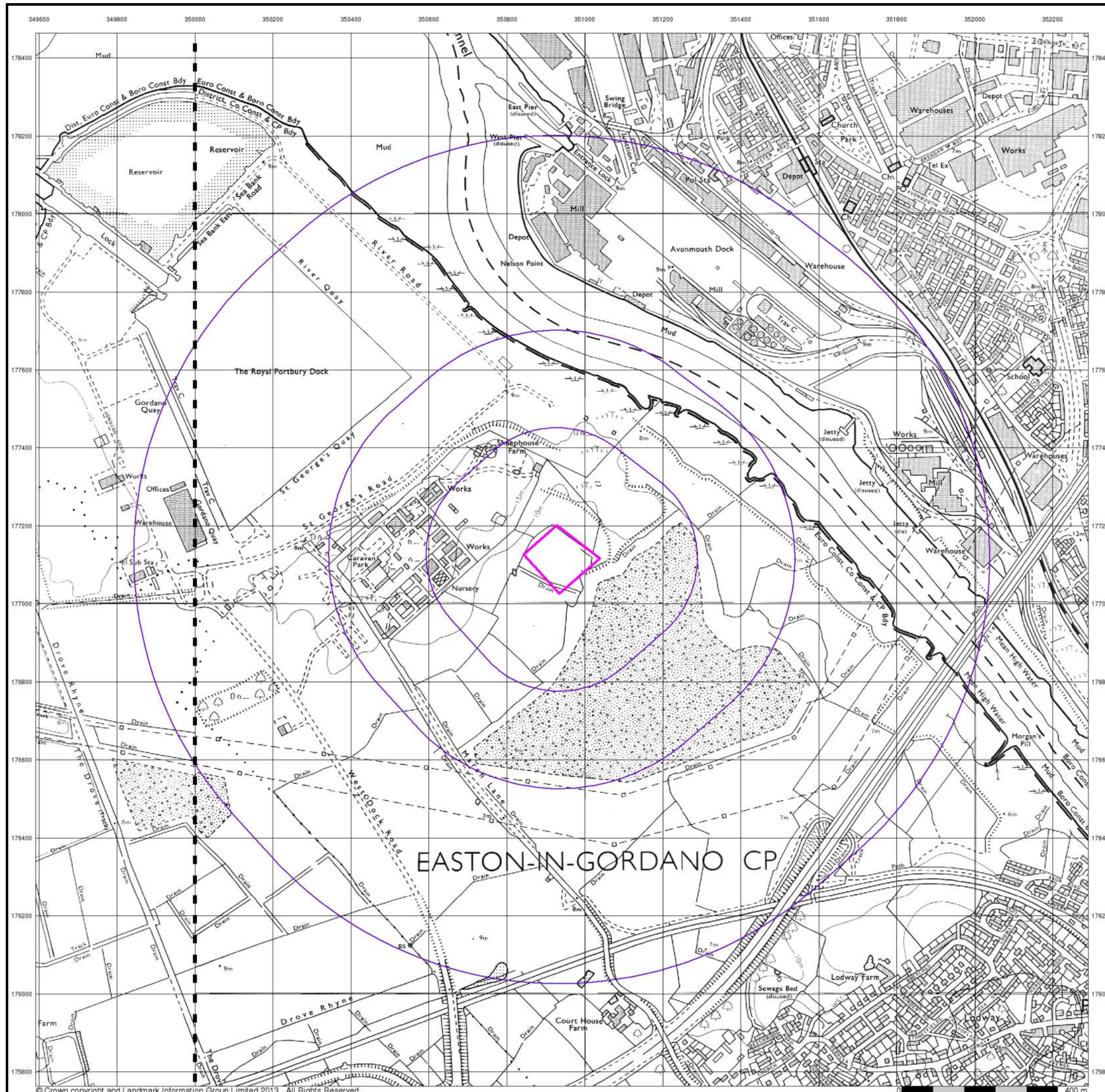


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



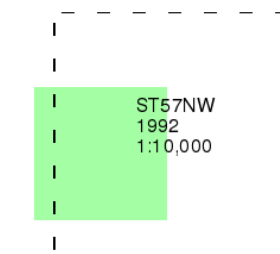
Ordnance Survey Plan

Published 1992

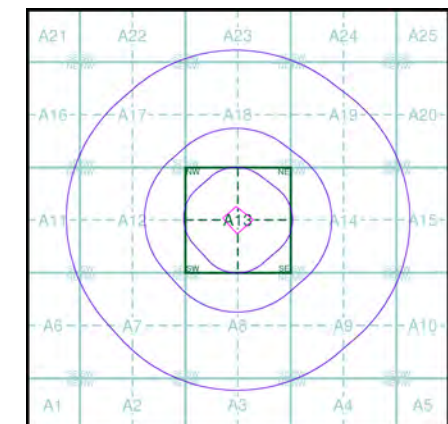
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

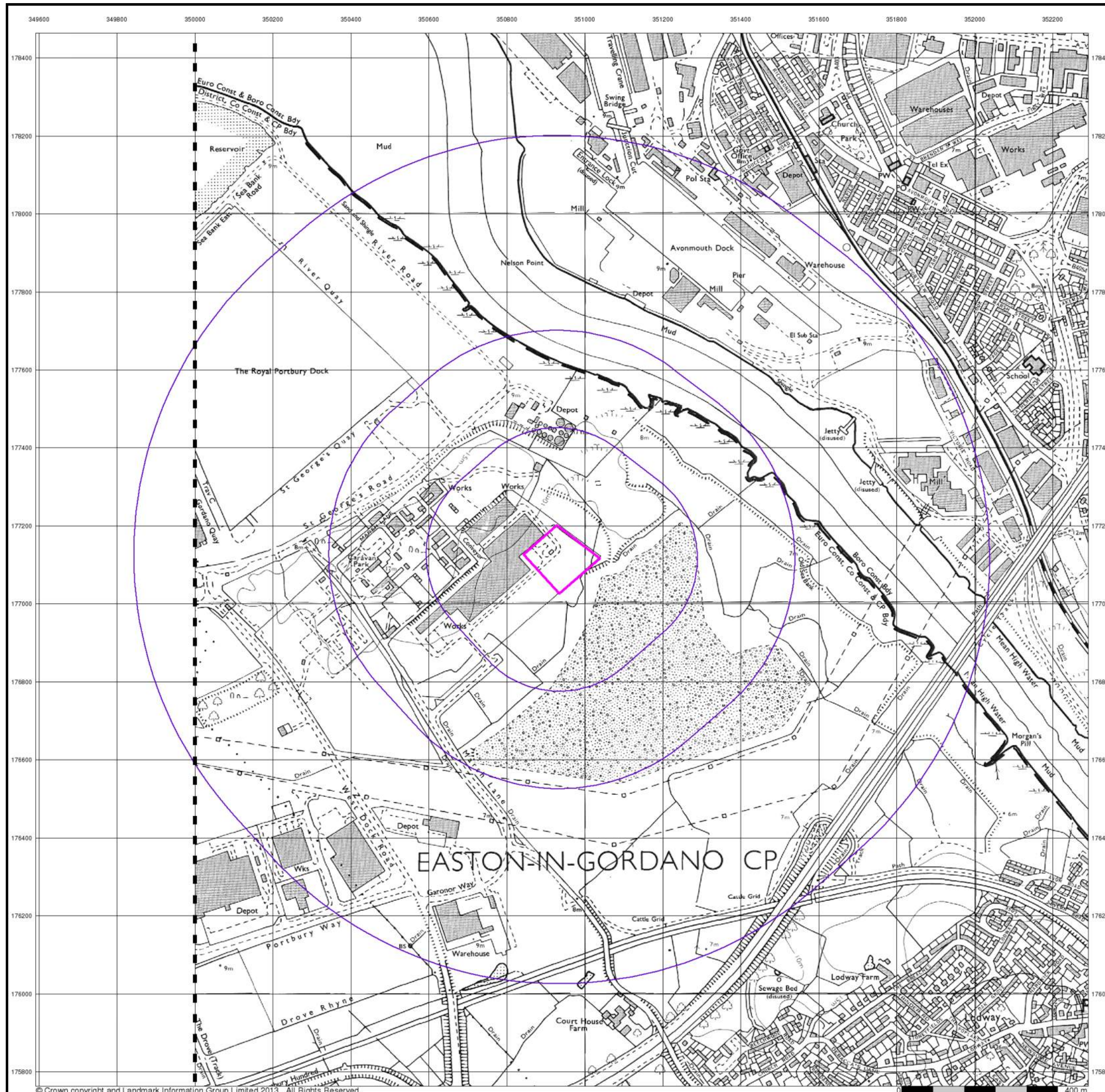


Order Details

Order Number: 50026892_1_1
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 Site Area (Ha): 1.72
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Site Details

Site at 350920, 177110



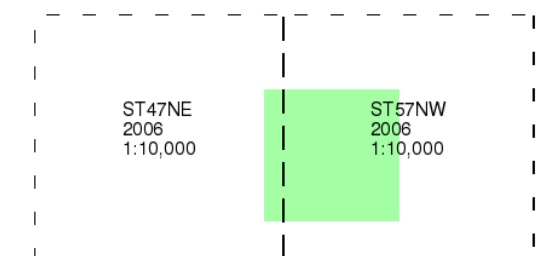
10k Raster Mapping

Published 2006

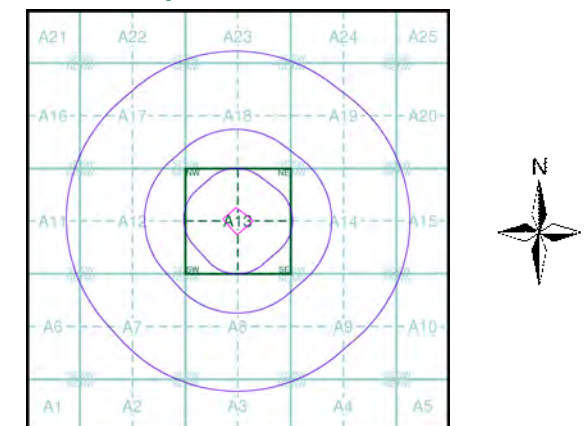
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

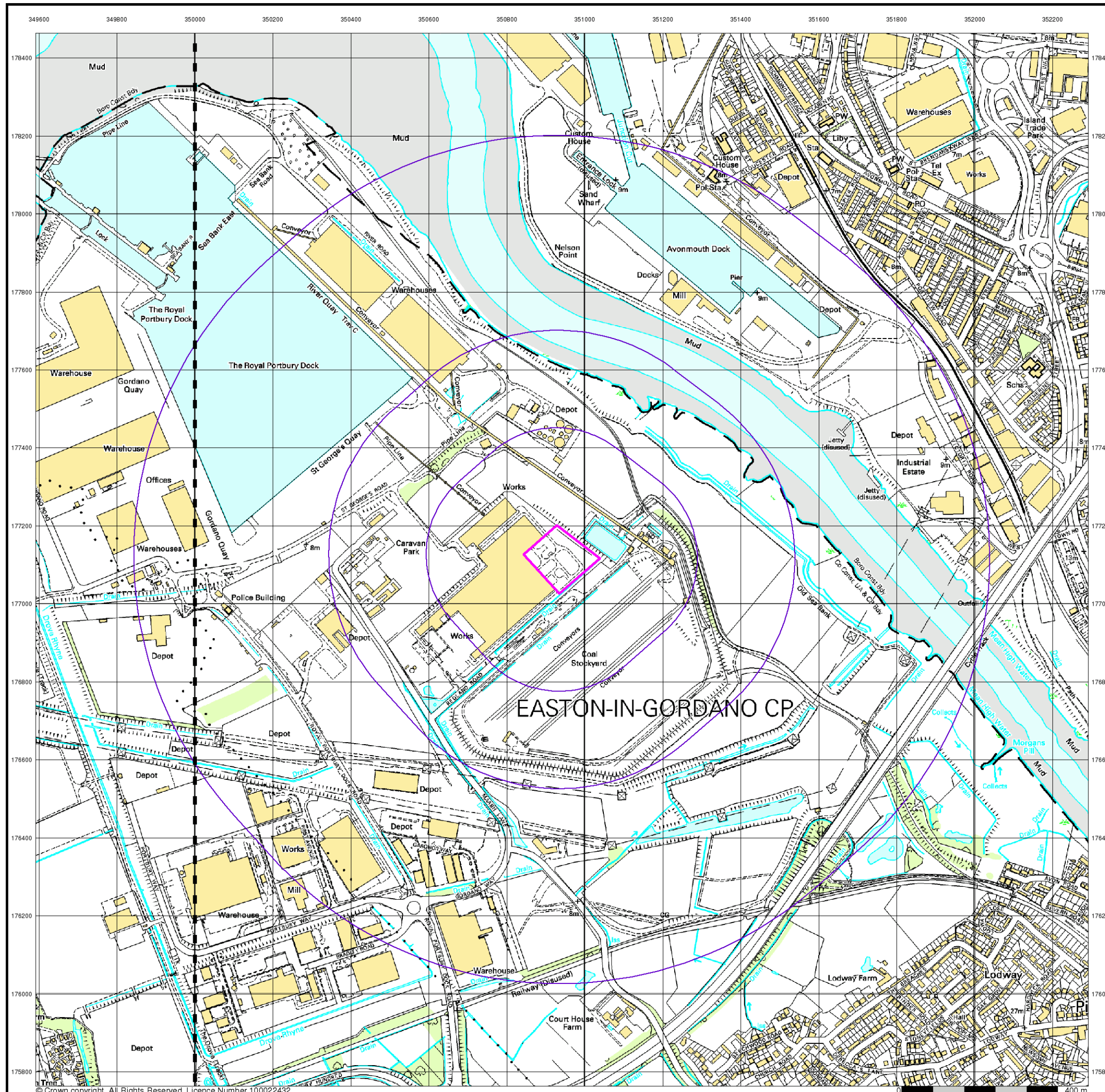


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



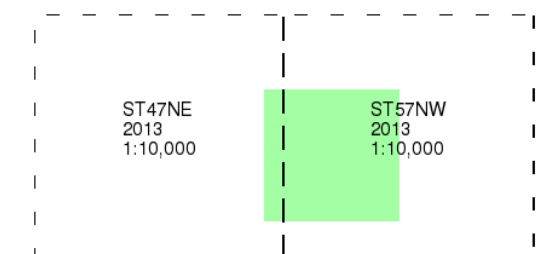
10k Raster Mapping

Published 2013

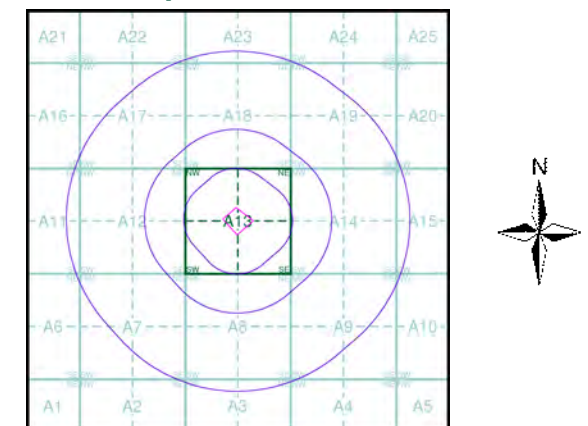
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

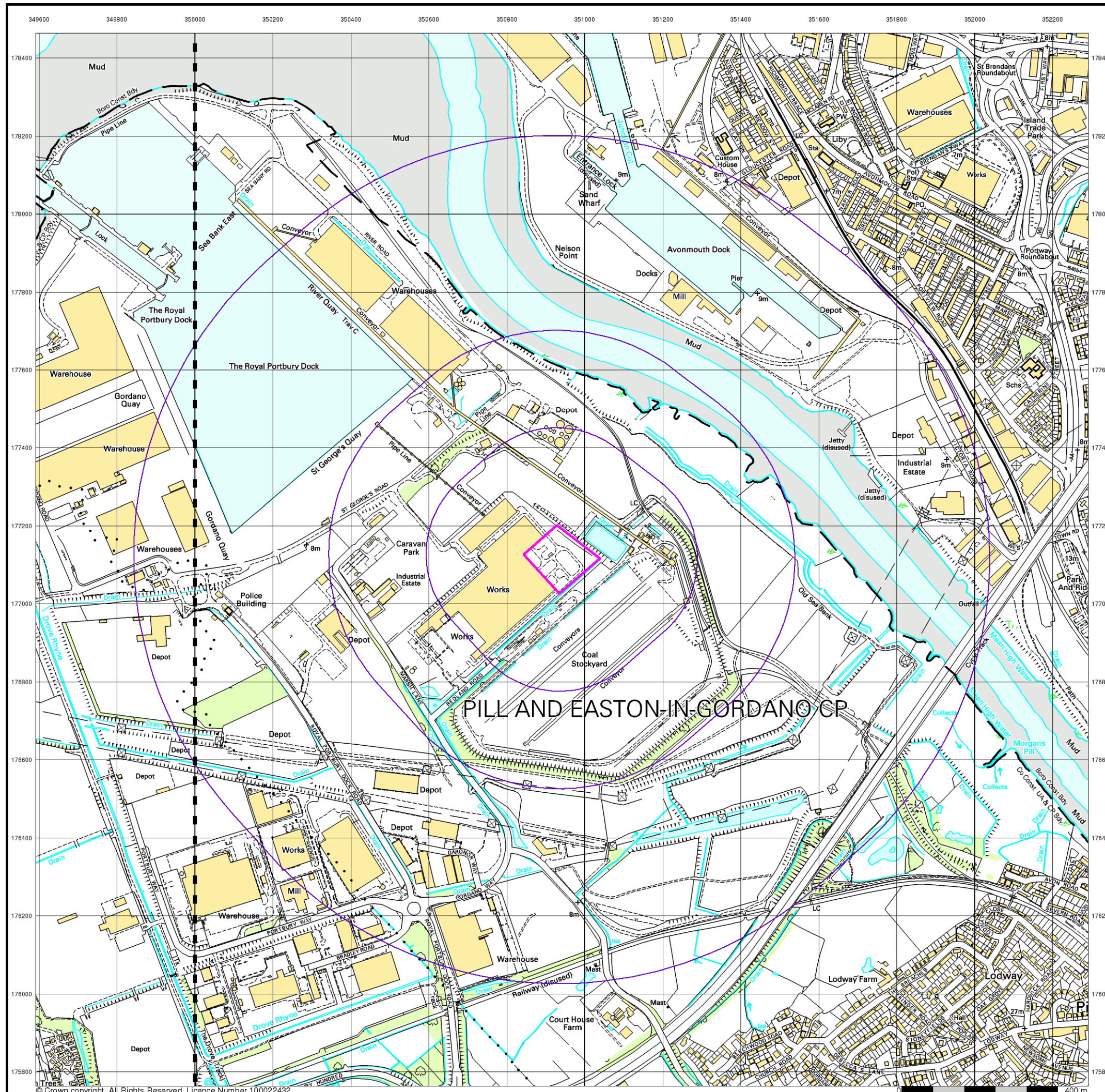


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 1000

Site Details

Site at 350920, 177110



Historical Mapping Legends

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

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

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
Beer House **Pillar, Pole or Post**
Boundary Post or Stone **Post Office**
Capstan, Crane **Public Convenience**
Chimney **Public House**
Drinking Fountain **Pump**
Electricity Pillar or Post **Signal Box or Bridge**
Fire Alarm Pillar **Signal Post or Light**
Foot Bridge **Spring**
Guide Post **Tank or Track**
Hydrant or Hydraulic **Telephone Call Box**
Level Crossing **Telephone Call Post**
Manhole **Trough**
Mile Post or Mooring Post **Water Point, Water Tap**
Mile Stone **Well**
Normal Tidal Limit **Wind Pump**

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

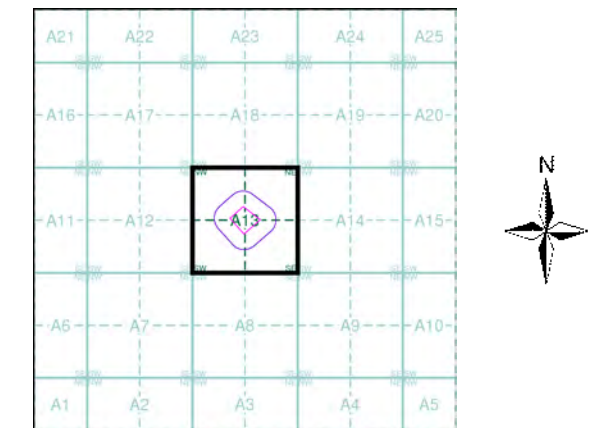
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds**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



Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|--|---------|-------------|----|
| Somerset | 1:2,500 | 1884 | 2 |
| Gloucestershire | 1:2,500 | 1886 | 3 |
| Somerset | 1:2,500 | 1903 | 4 |
| Gloucestershire | 1:2,500 | 1903 | 5 |
| Somerset | 1:2,500 | 1916 | 6 |
| Gloucestershire | 1:2,500 | 1916 | 7 |
| Supply of Unpublished Survey Information | 1:2,500 | 1974 | 8 |
| Ordnance Survey Plan | 1:1,250 | 1978 | 9 |
| Ordnance Survey Plan | 1:2,500 | 1980 - 1981 | 10 |
| Additional SIMs | 1:2,500 | 1980 | 11 |
| Additional SIMs | 1:2,500 | 1984 | 12 |
| Additional SIMs | 1:1,250 | 1989 | 13 |
| Additional SIMs | 1:2,500 | 1989 | 14 |
| Additional SIMs | 1:2,500 | 1989 | 15 |
| Ordnance Survey Plan | 1:2,500 | 1992 | 16 |
| Large-Scale National Grid Data | 1:2,500 | 1992 | 17 |
| Large-Scale National Grid Data | 1:1,250 | 1992 | 18 |
| Large-Scale National Grid Data | 1:1,250 | 1994 | 19 |
| Large-Scale National Grid Data | 1:2,500 | 1994 | 20 |

Historical Map - Segment A13



Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



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

Somerset

Published 1884

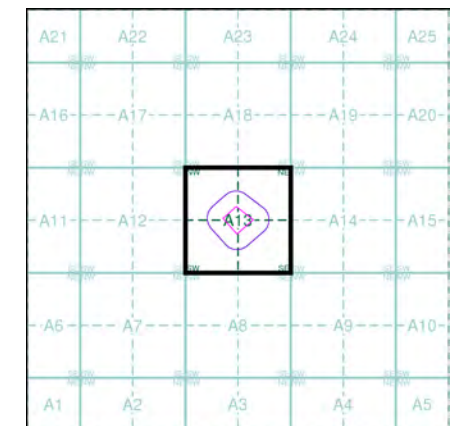
Source map scale - 1:2,500

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)

| | | |
|--------|------|---------|
| 002_07 | 1884 | 1:2,500 |
| 002_11 | 1884 | 1:2,500 |

Historical Map - Segment A13

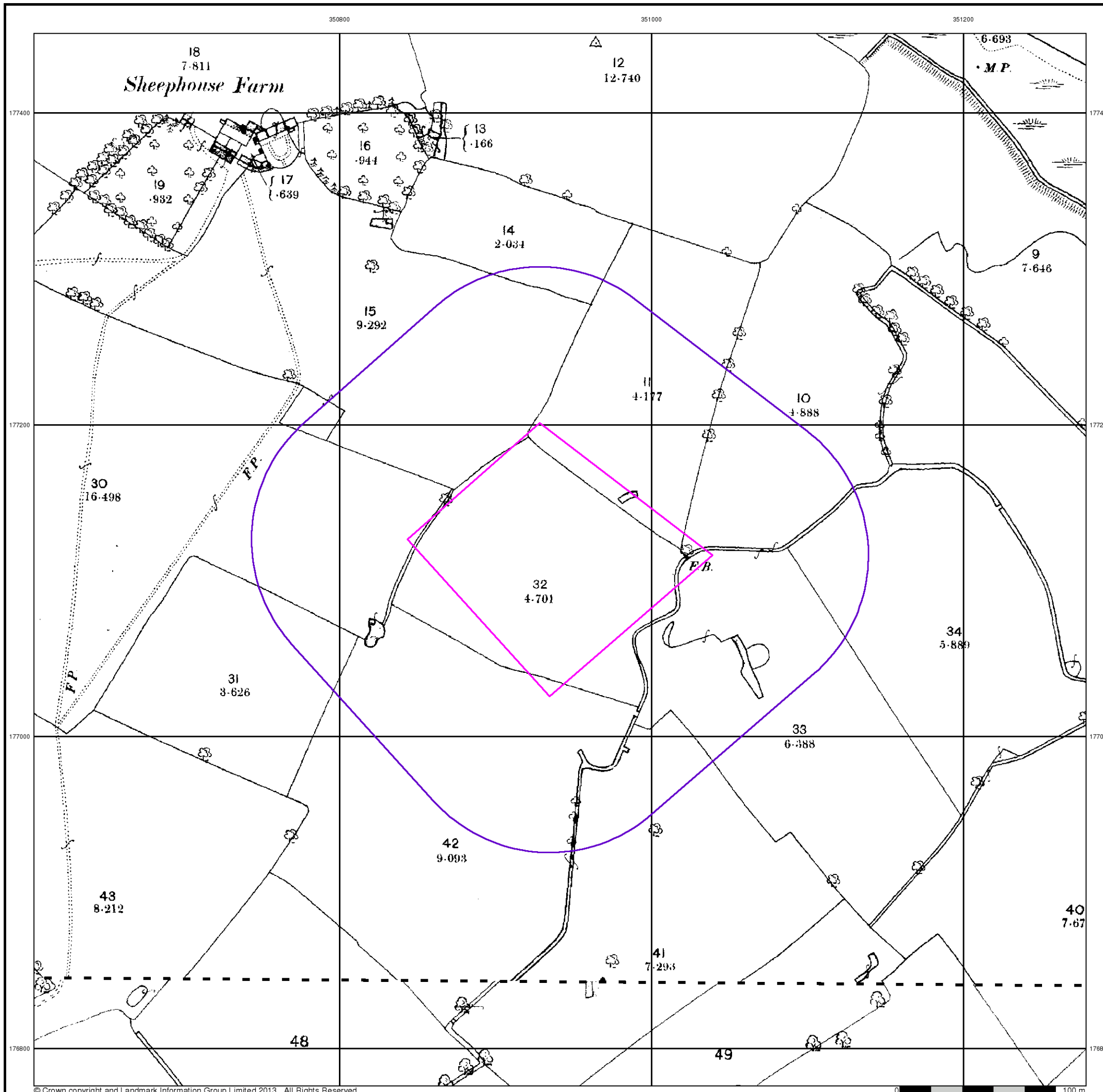


Order Details

Order Number: 50026892_1_1
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 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



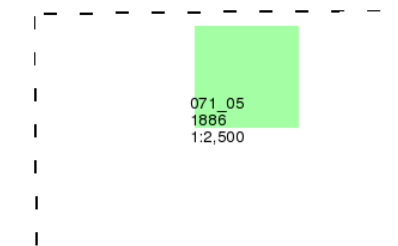
Gloucestershire

Published 1886

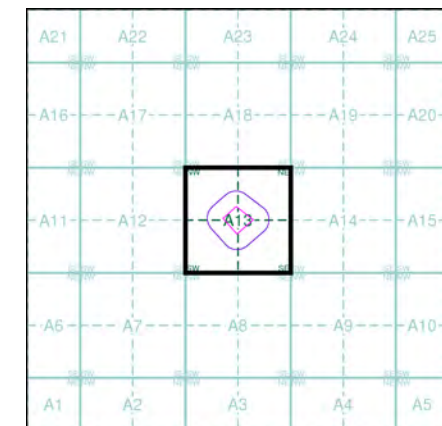
Source map scale - 1:2,500

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

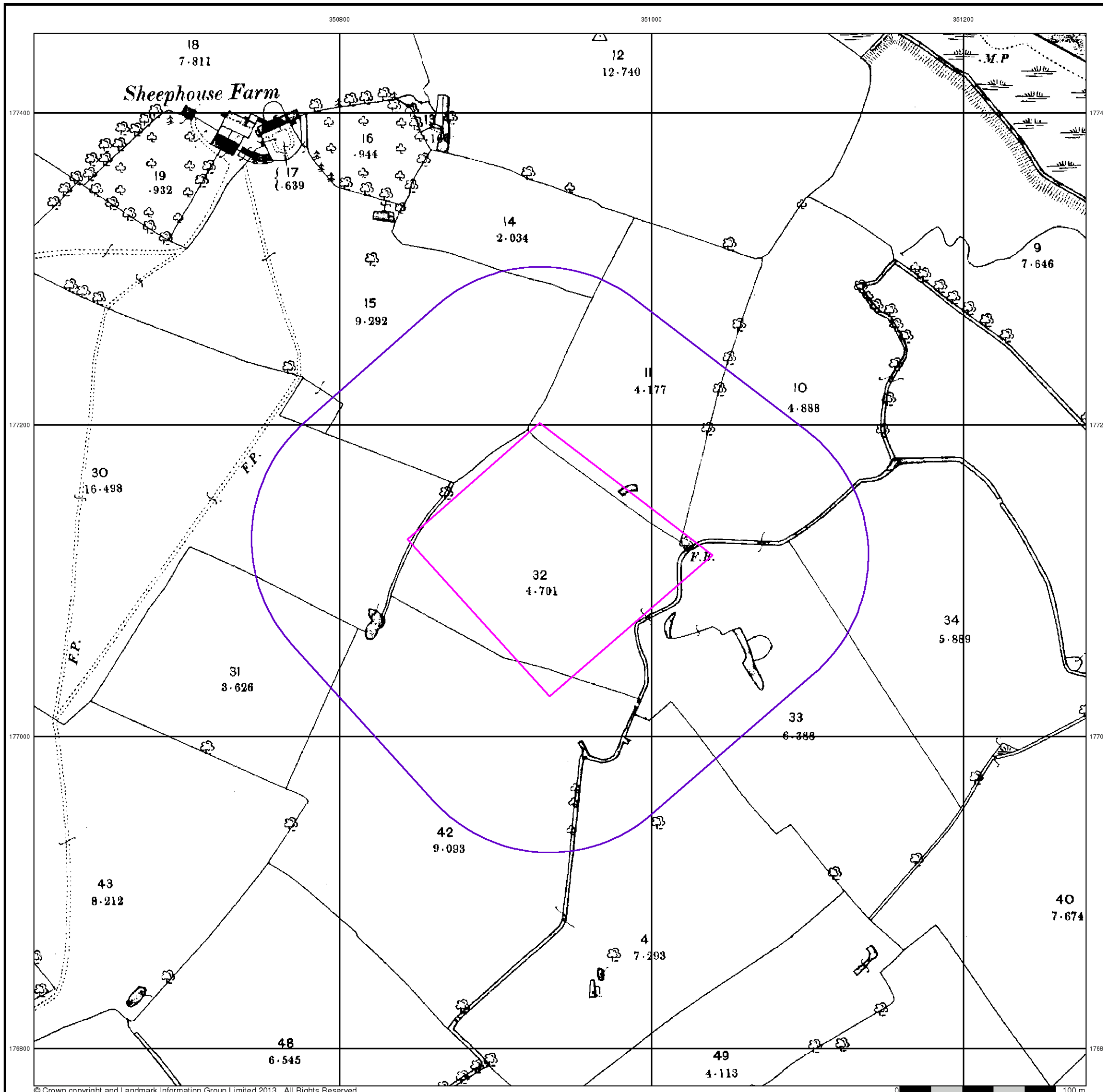


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



Somerset

Published 1903

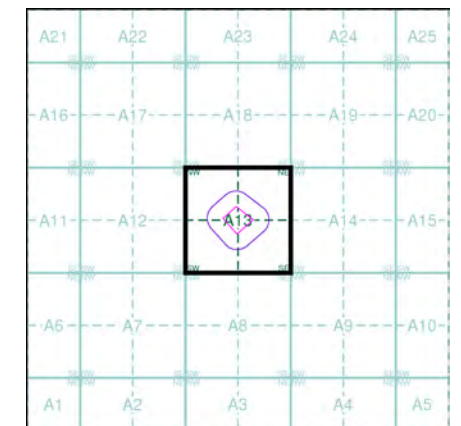
Source map scale - 1:2,500

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)

| | | |
|--------|------|---------|
| 002_07 | 1903 | 1:2,500 |
| 002_11 | 1903 | 1:2,500 |

Historical Map - Segment A13

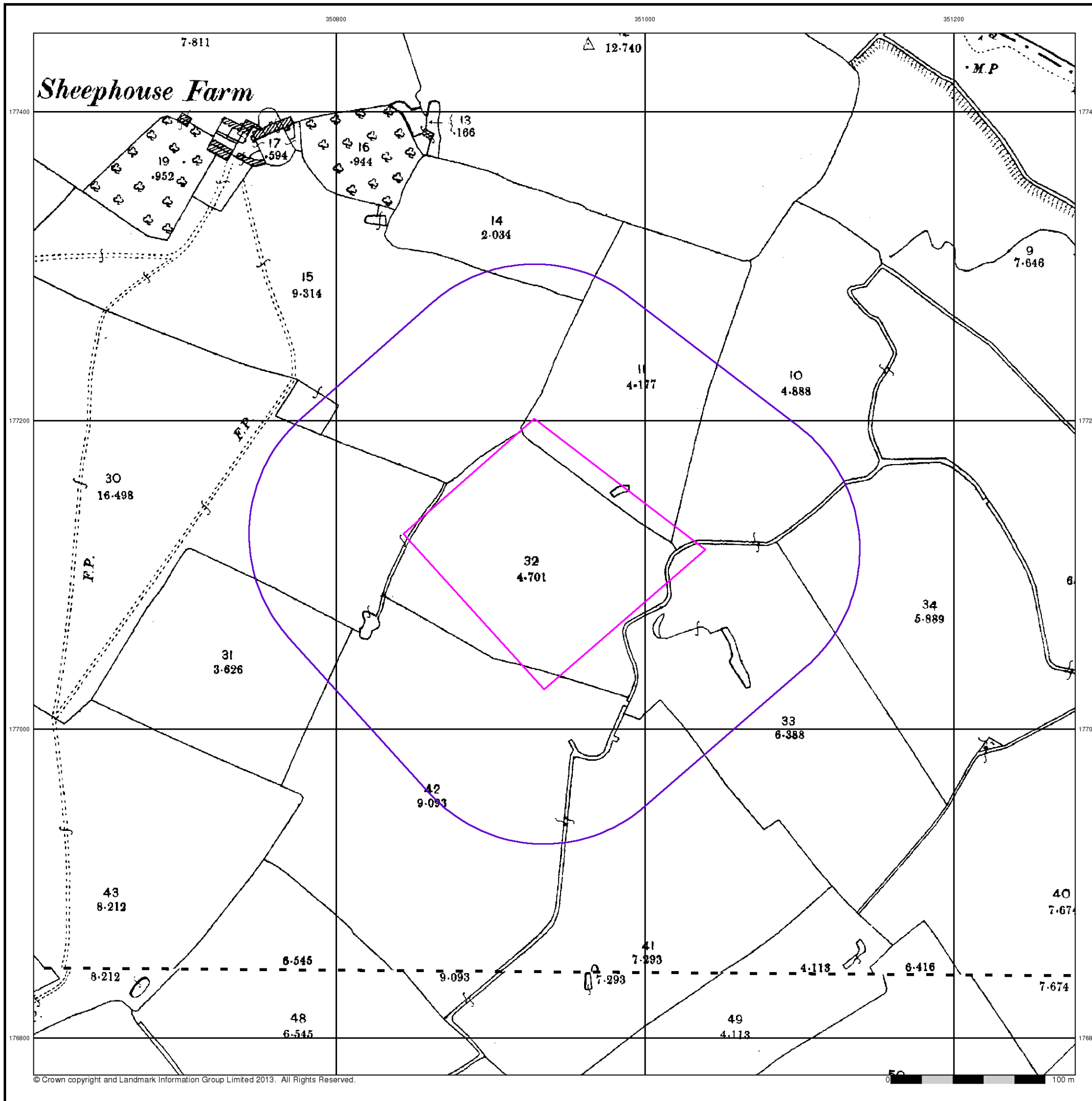


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



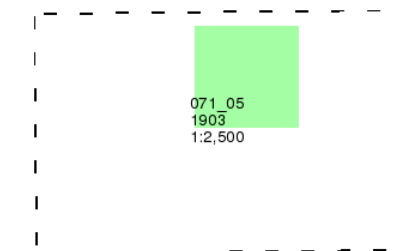
Gloucestershire

Published 1903

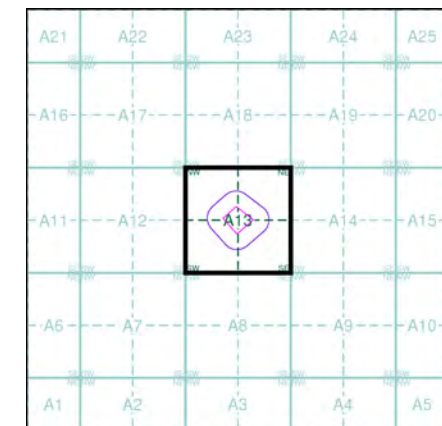
Source map scale - 1:2,500

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

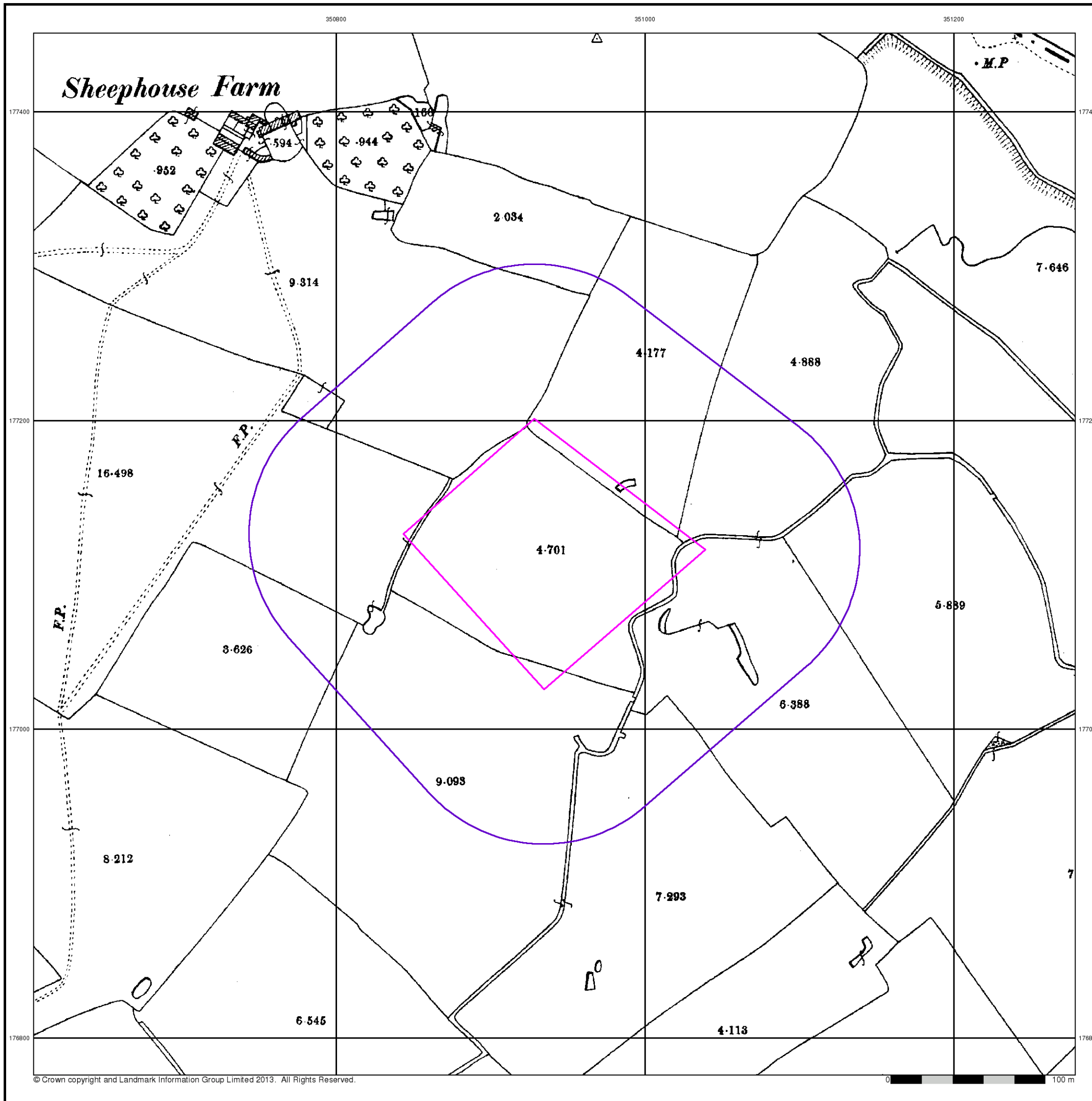


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Site Details

Site at 350920, 177110



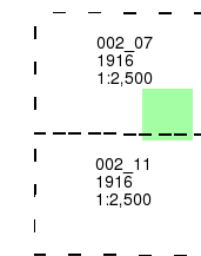
Somerset

Published 1916

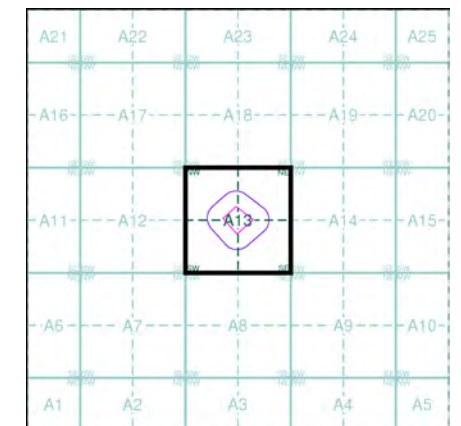
Source map scale - 1:2,500

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

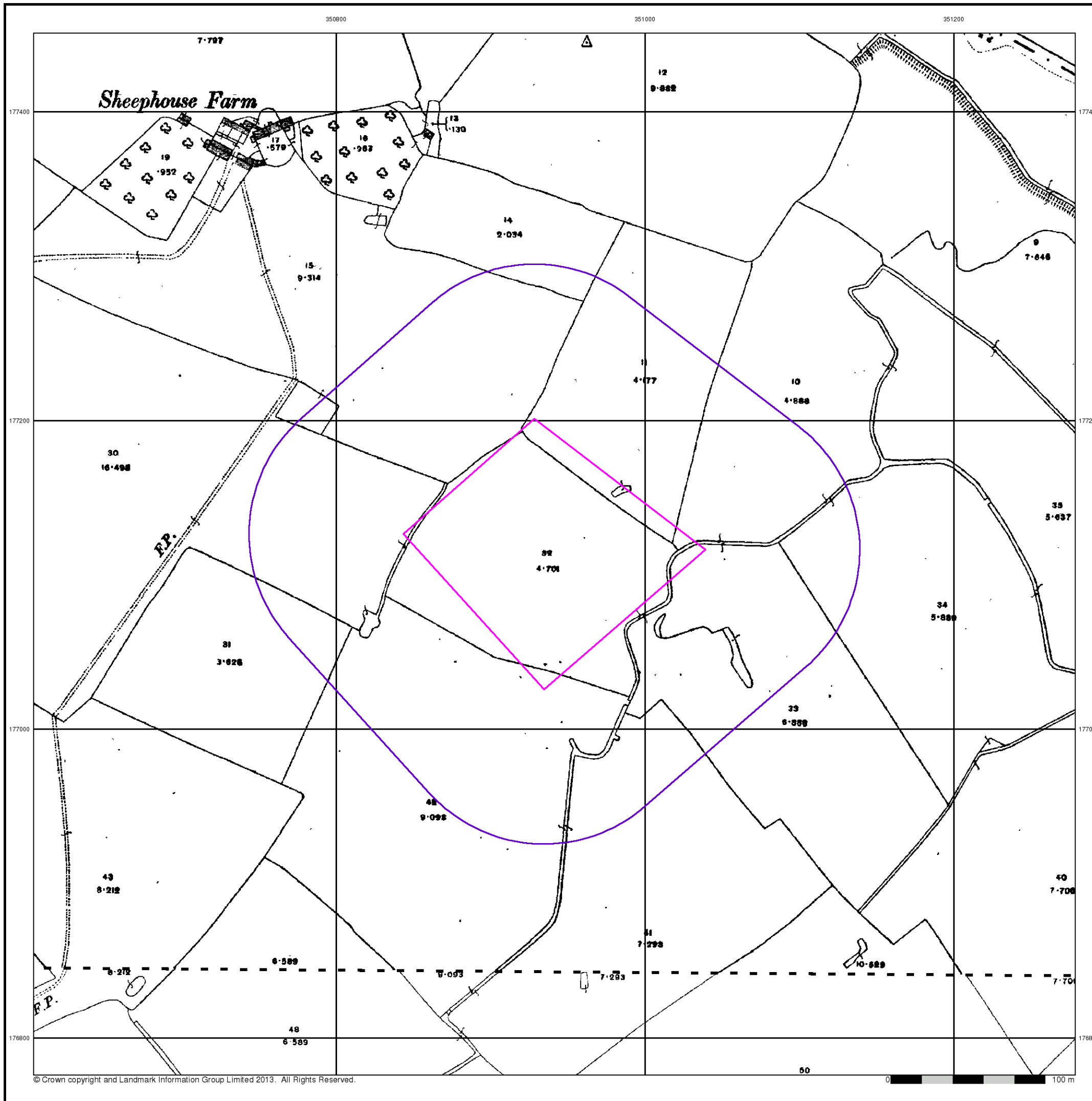


Order Details

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 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



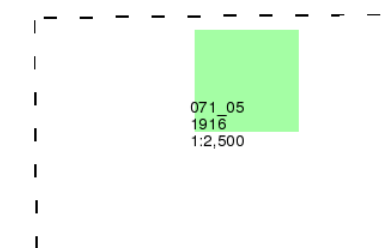
Gloucestershire

Published 1916

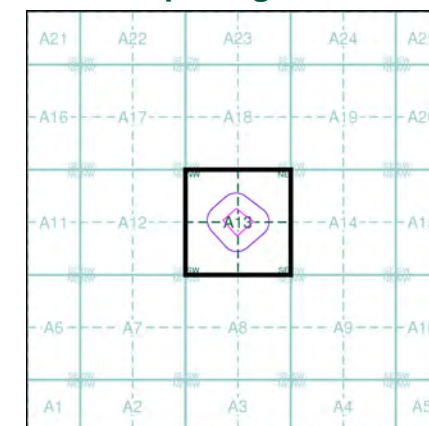
Source map scale - 1:2,500

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

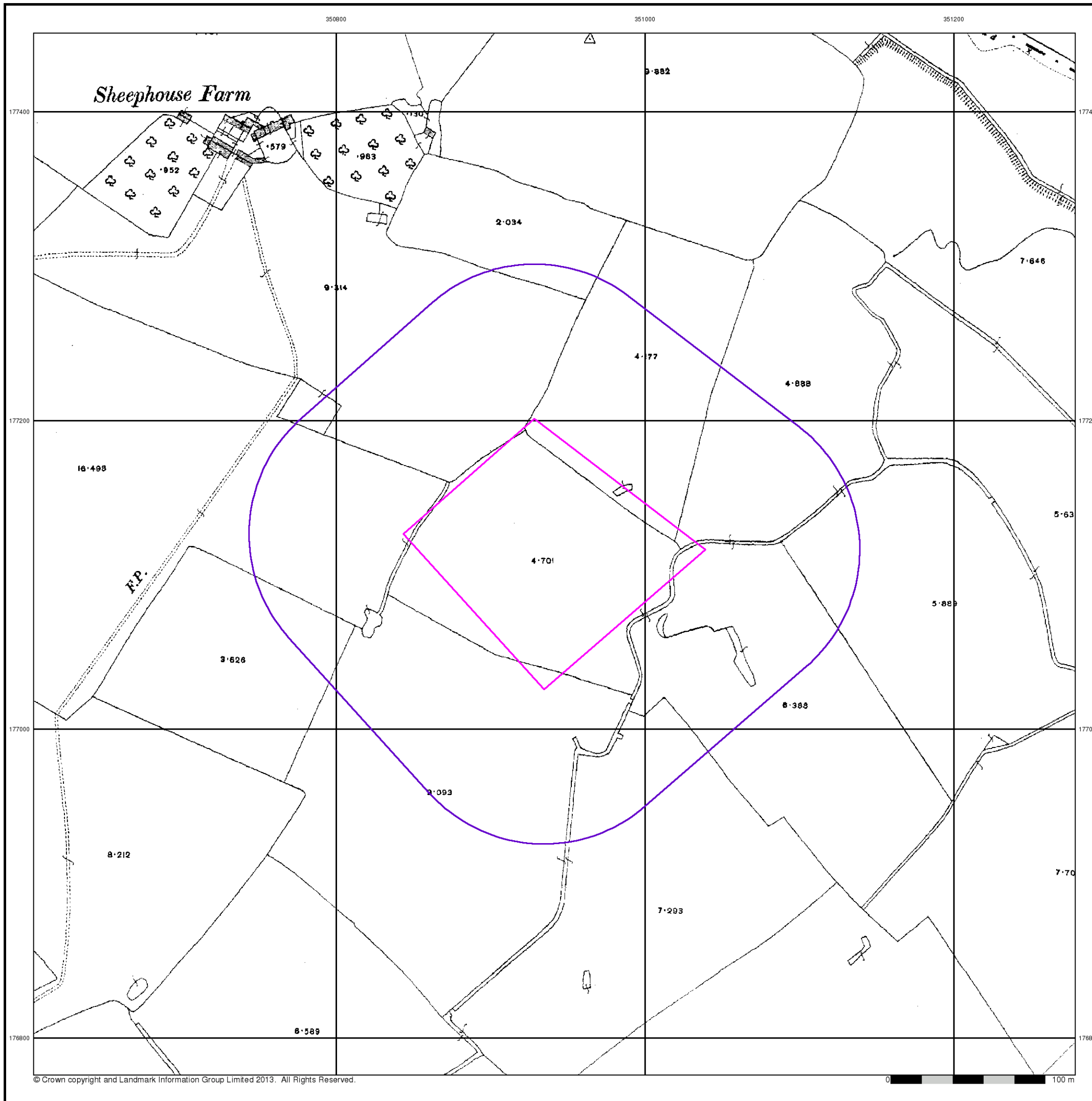


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



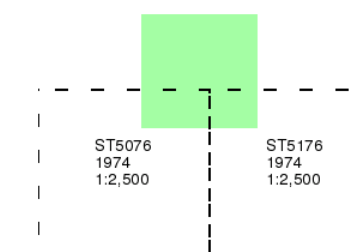
Supply of Unpublished Survey Information

Published 1974

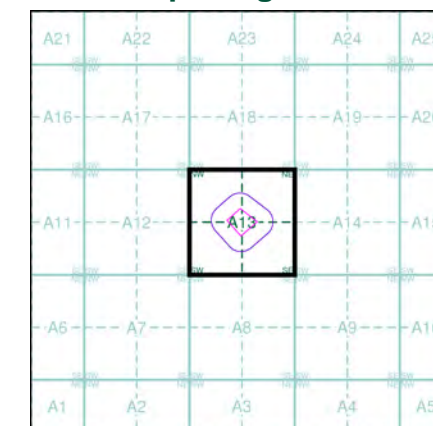
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

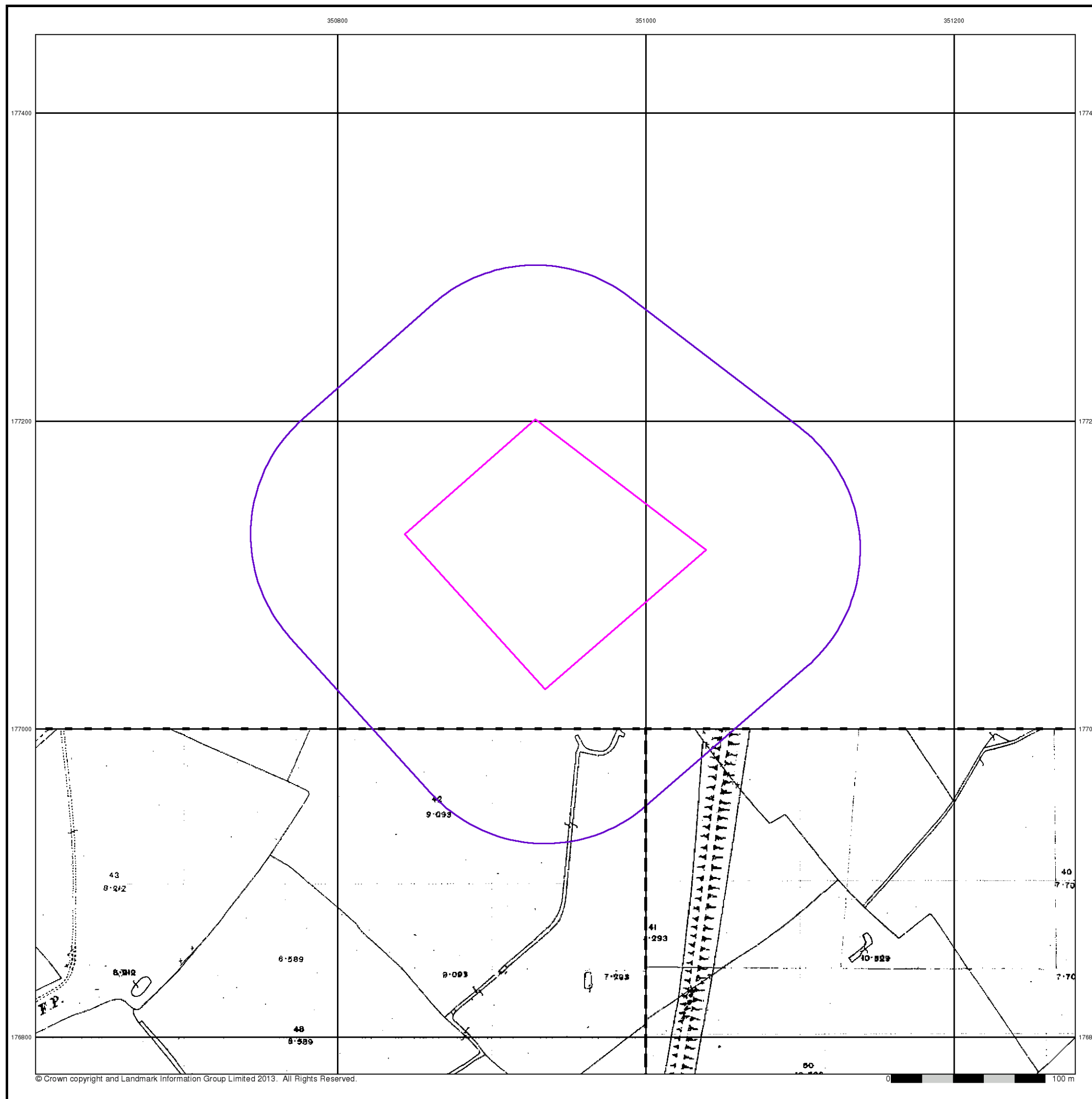


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



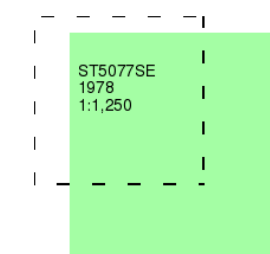
Ordnance Survey Plan

Published 1978

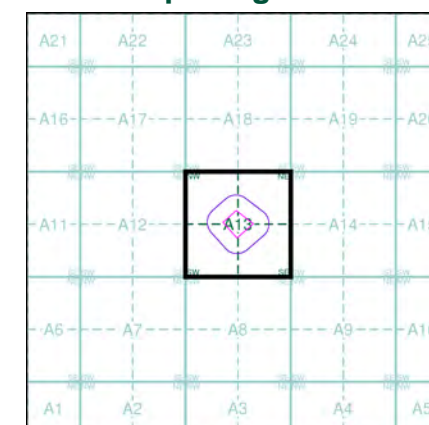
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

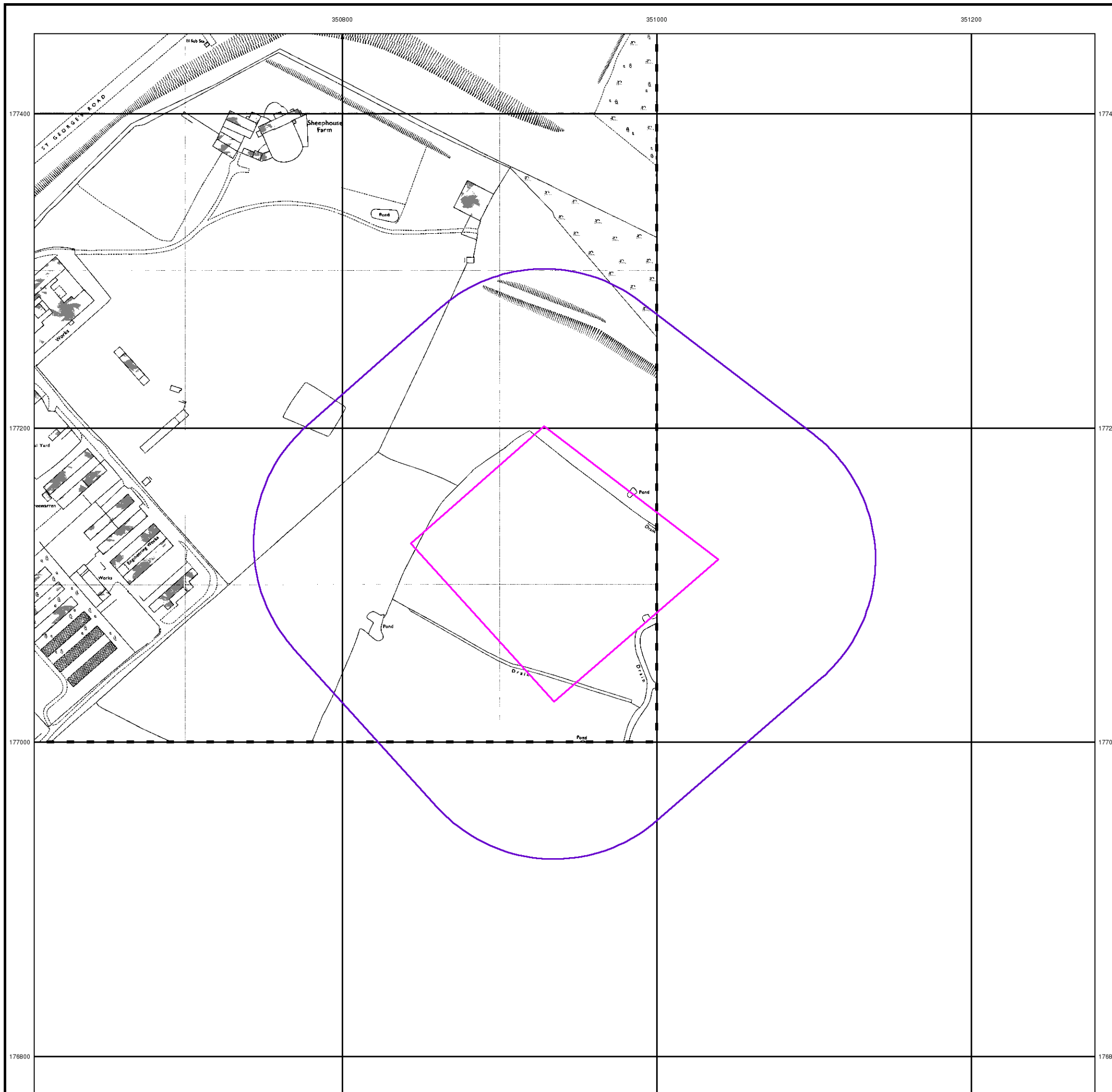


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

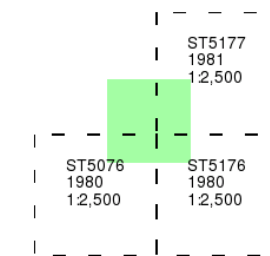
Site at 350920, 177110



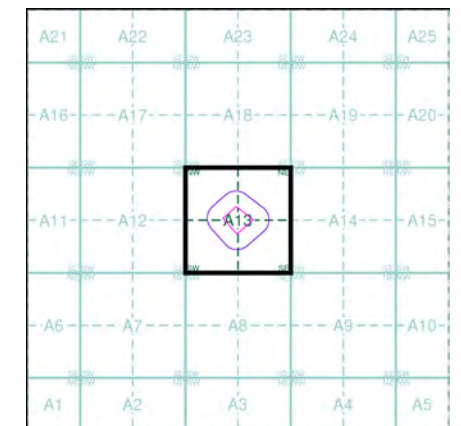
Ordnance Survey Plan
Published 1980 - 1981
Source map scale - 1:2,500

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

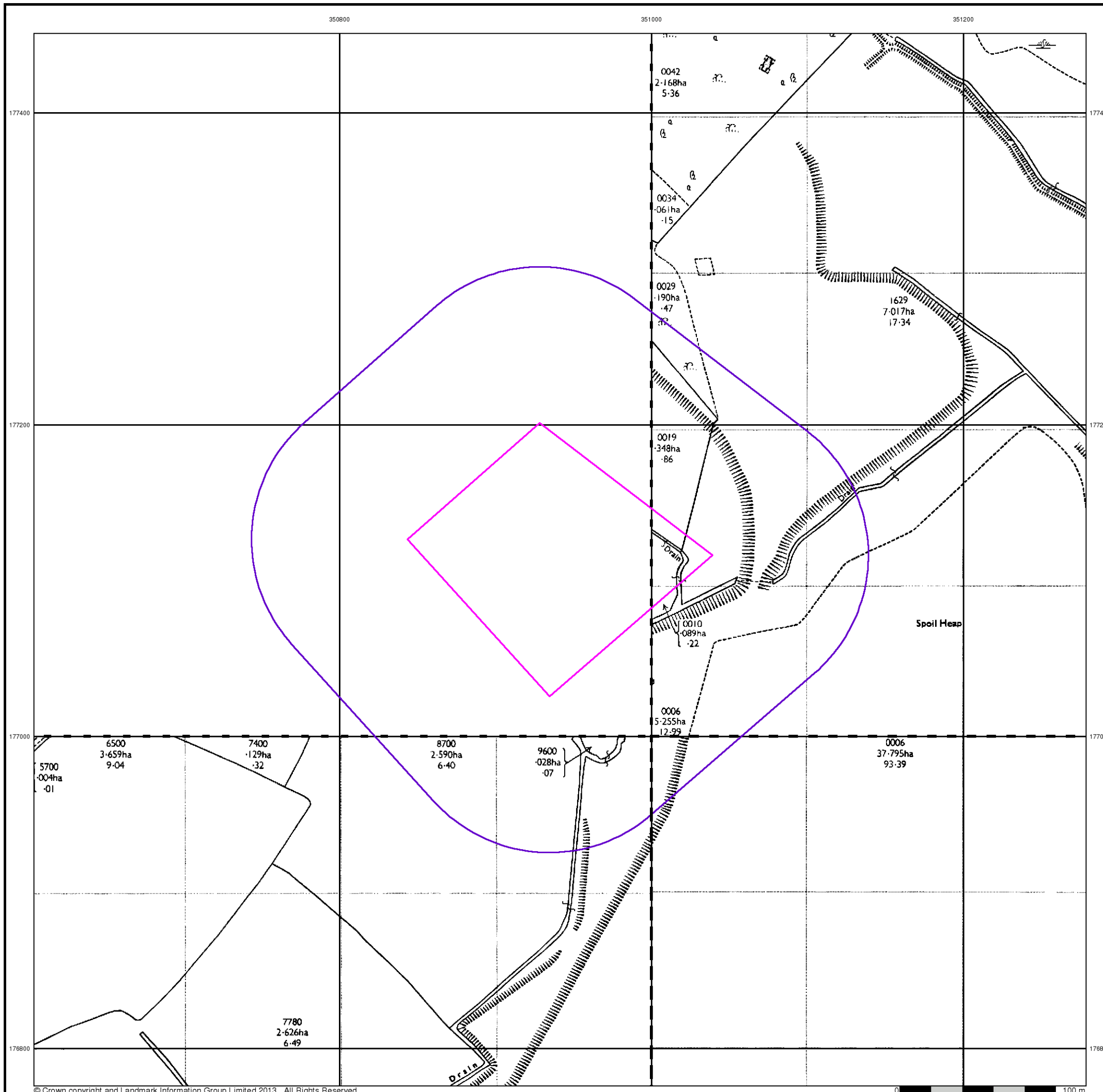


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



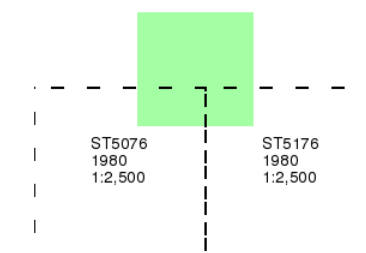
Additional SIMs

Published 1980

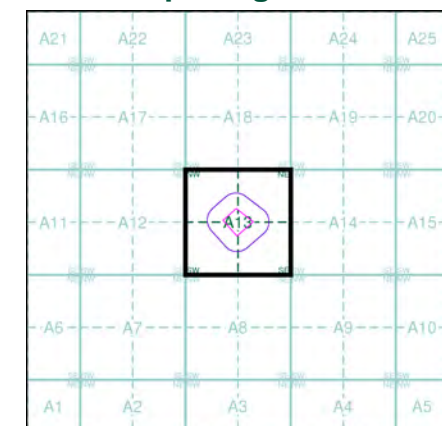
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

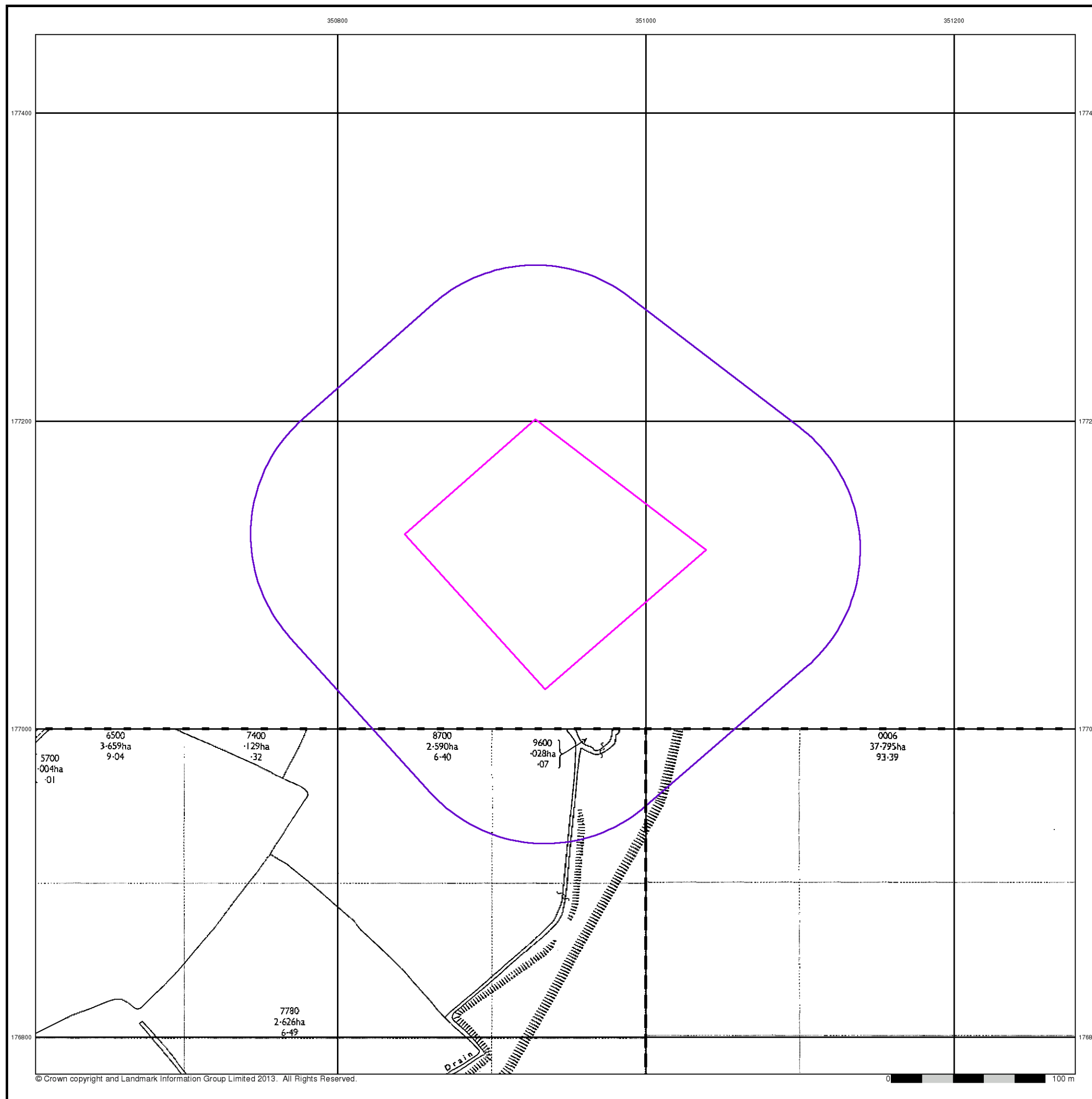


Order Details

Order Number: 50026892_1_1
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 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



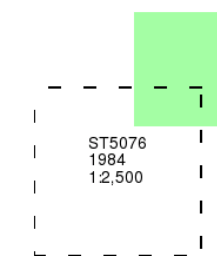
Additional SIMs

Published 1984

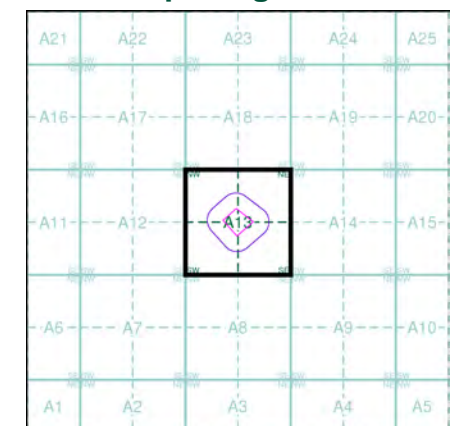
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13

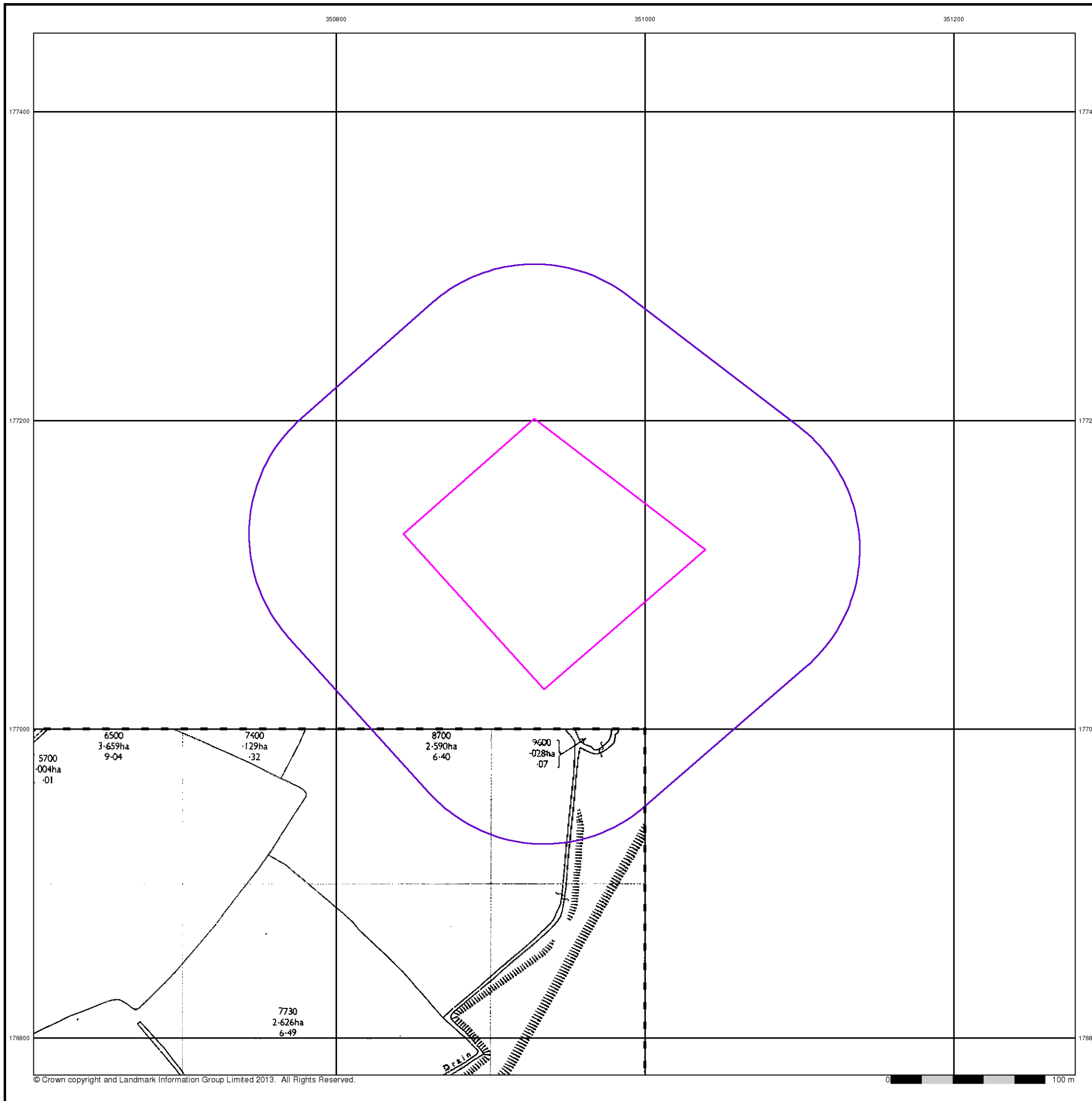


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Site Details

Site at 350920, 177110



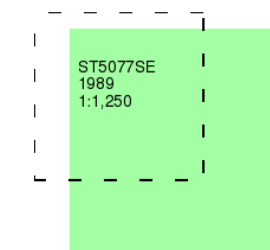
Additional SIMs

Published 1989

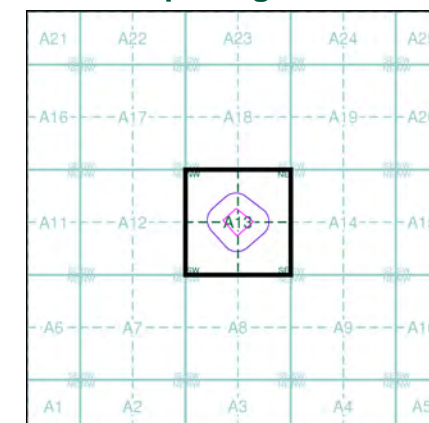
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

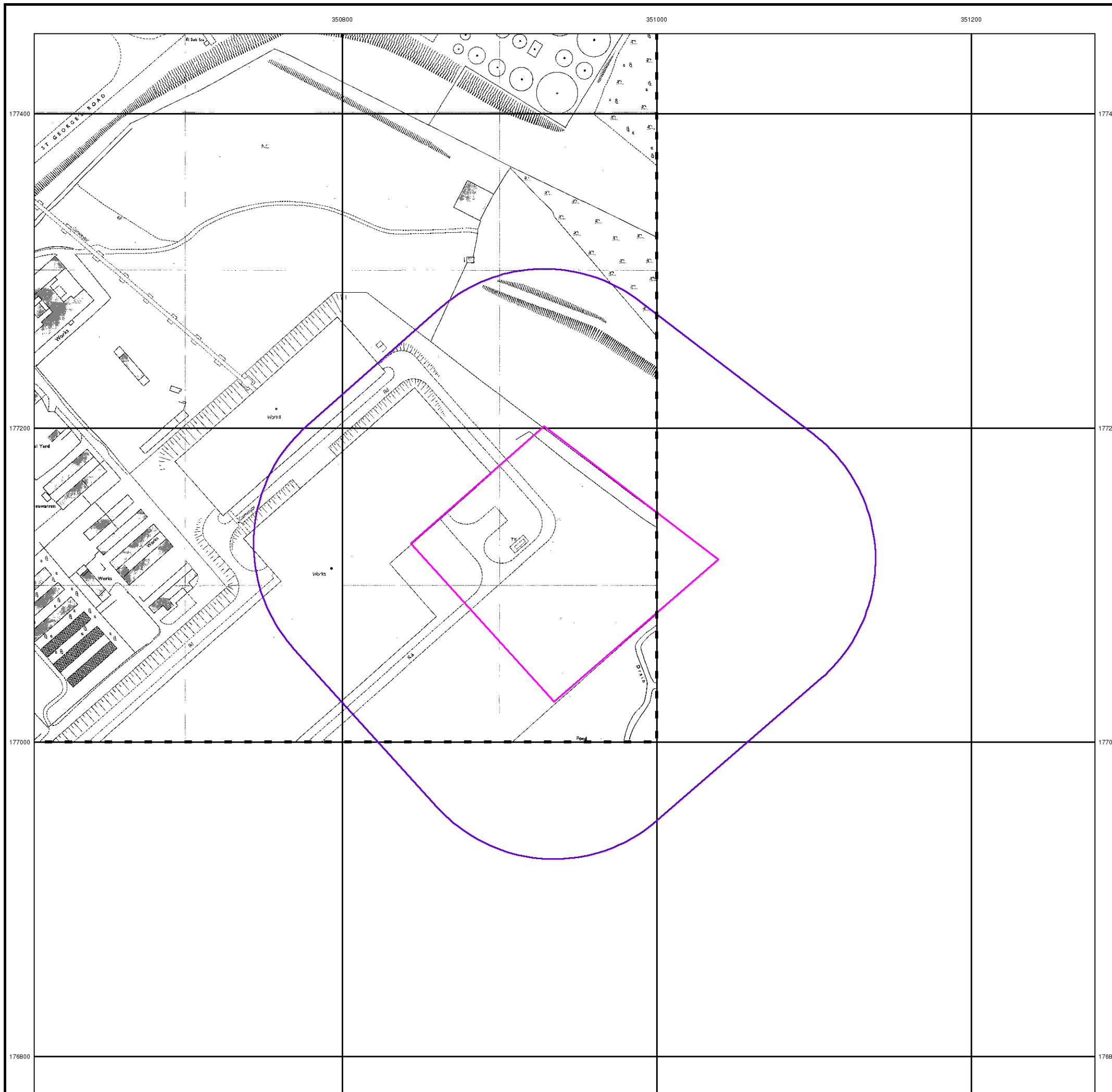


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Site Details

Site at 350920, 177110



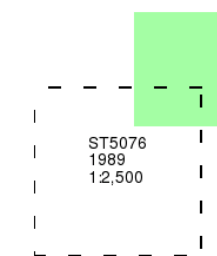
Additional SIMs

Published 1989

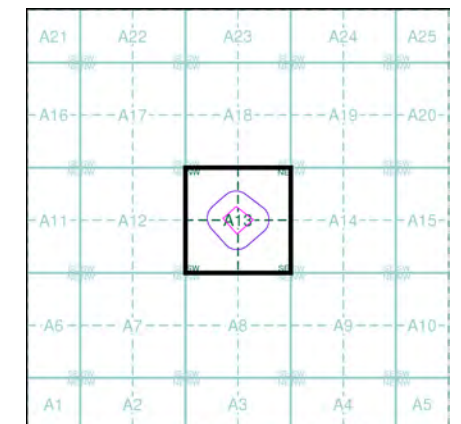
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13

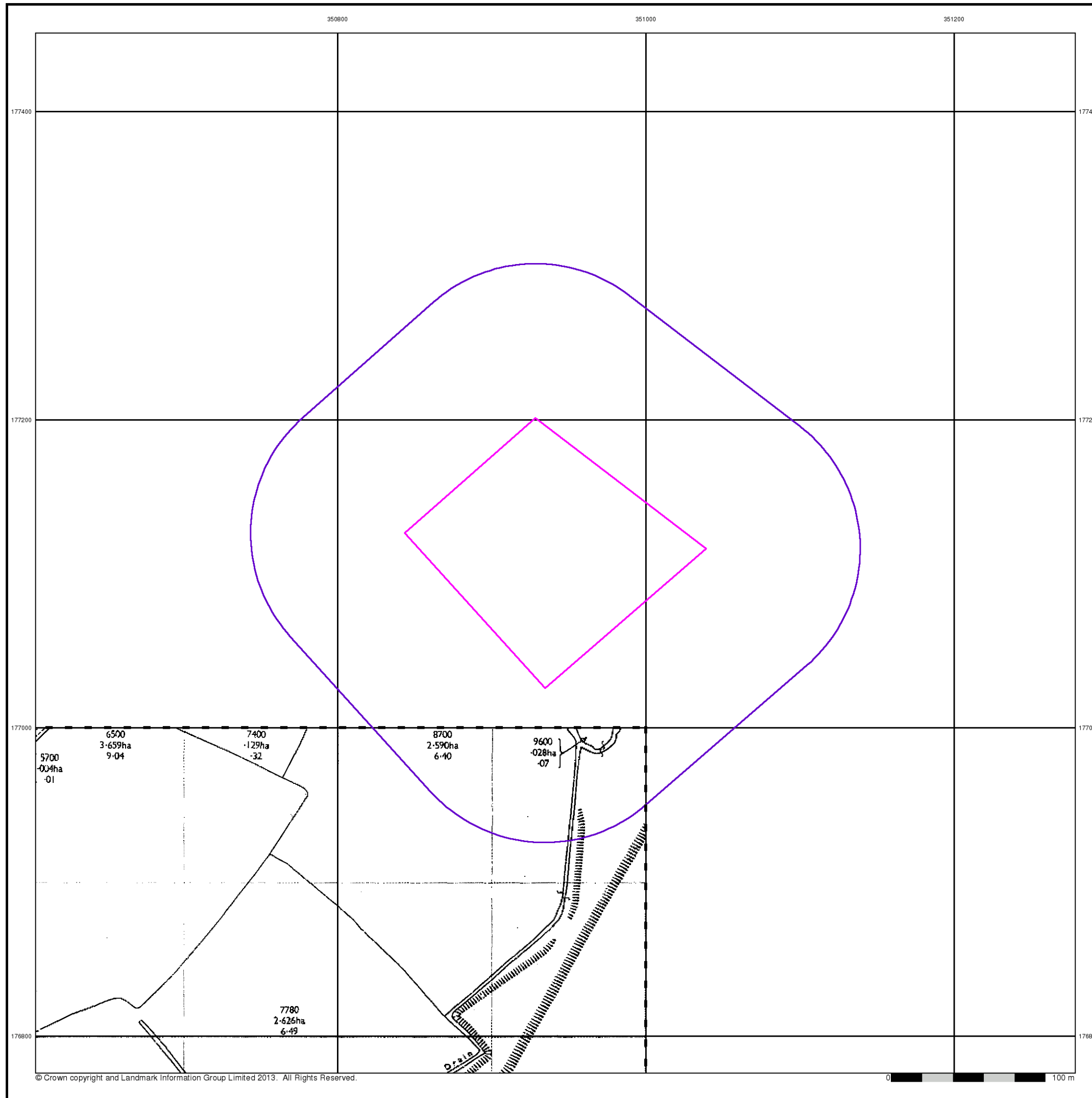


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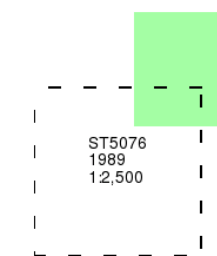
Additional SIMs

Published 1989

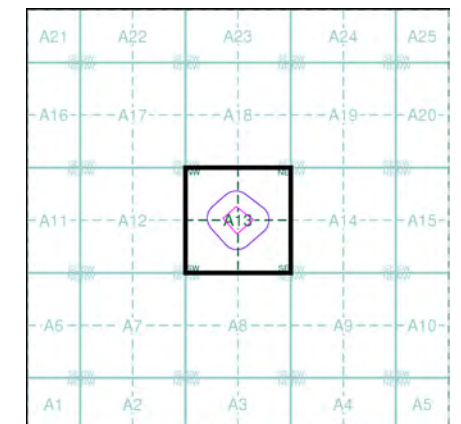
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Map Name(s) and Date(s)



Historical Map - Segment A13

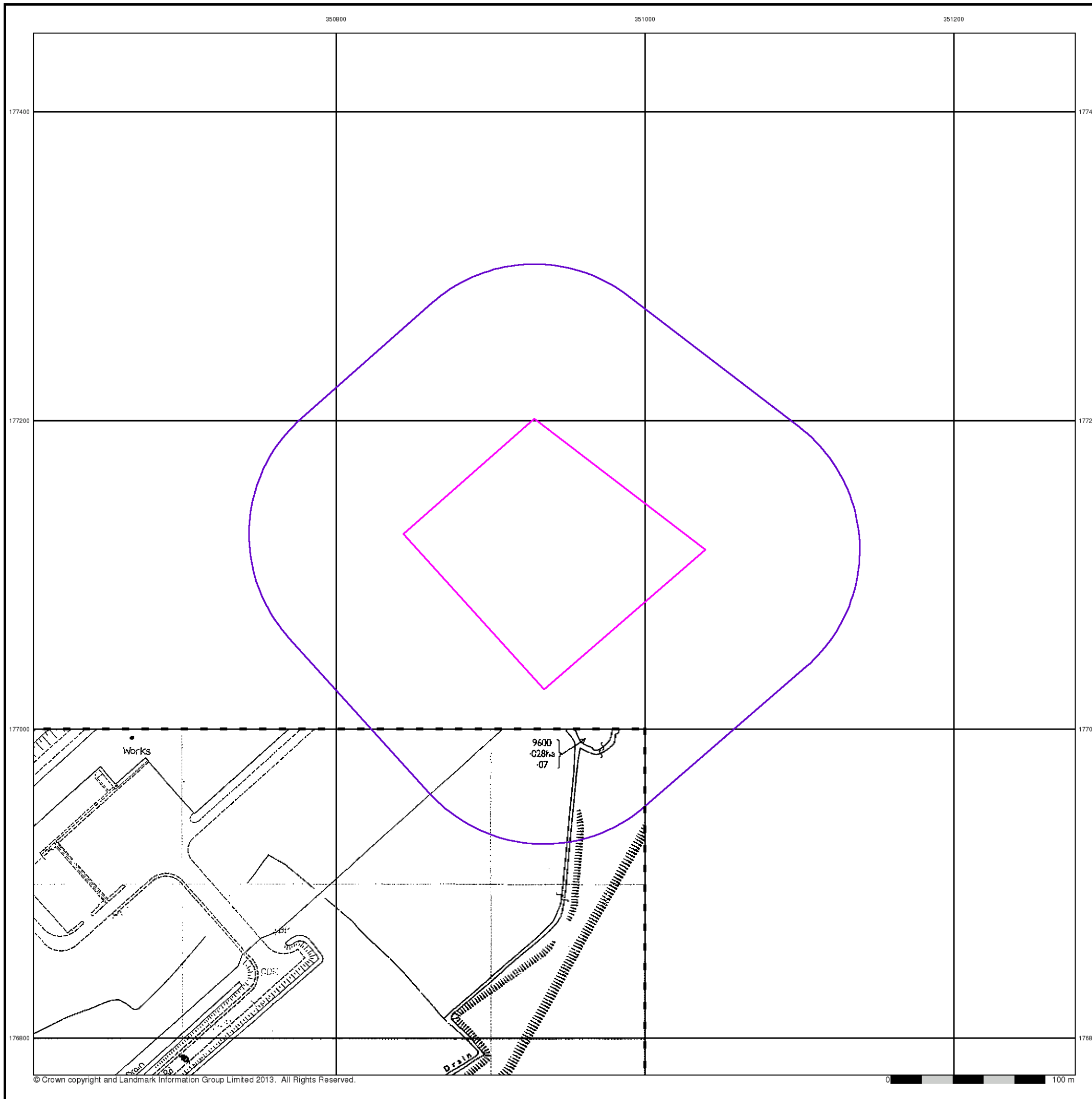


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Site Details

Site at 350920, 177110



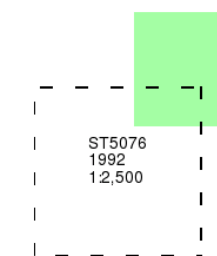
Ordnance Survey Plan

Published 1992

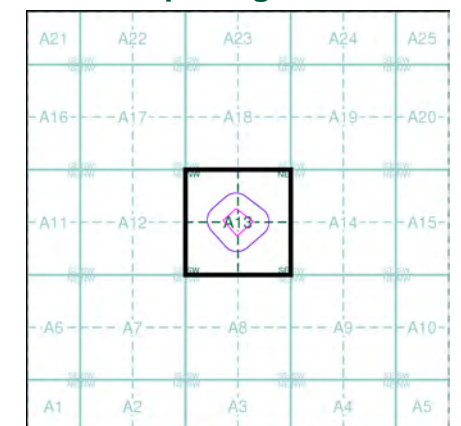
Source map scale - 1:2,500

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Historical Map - Segment A13

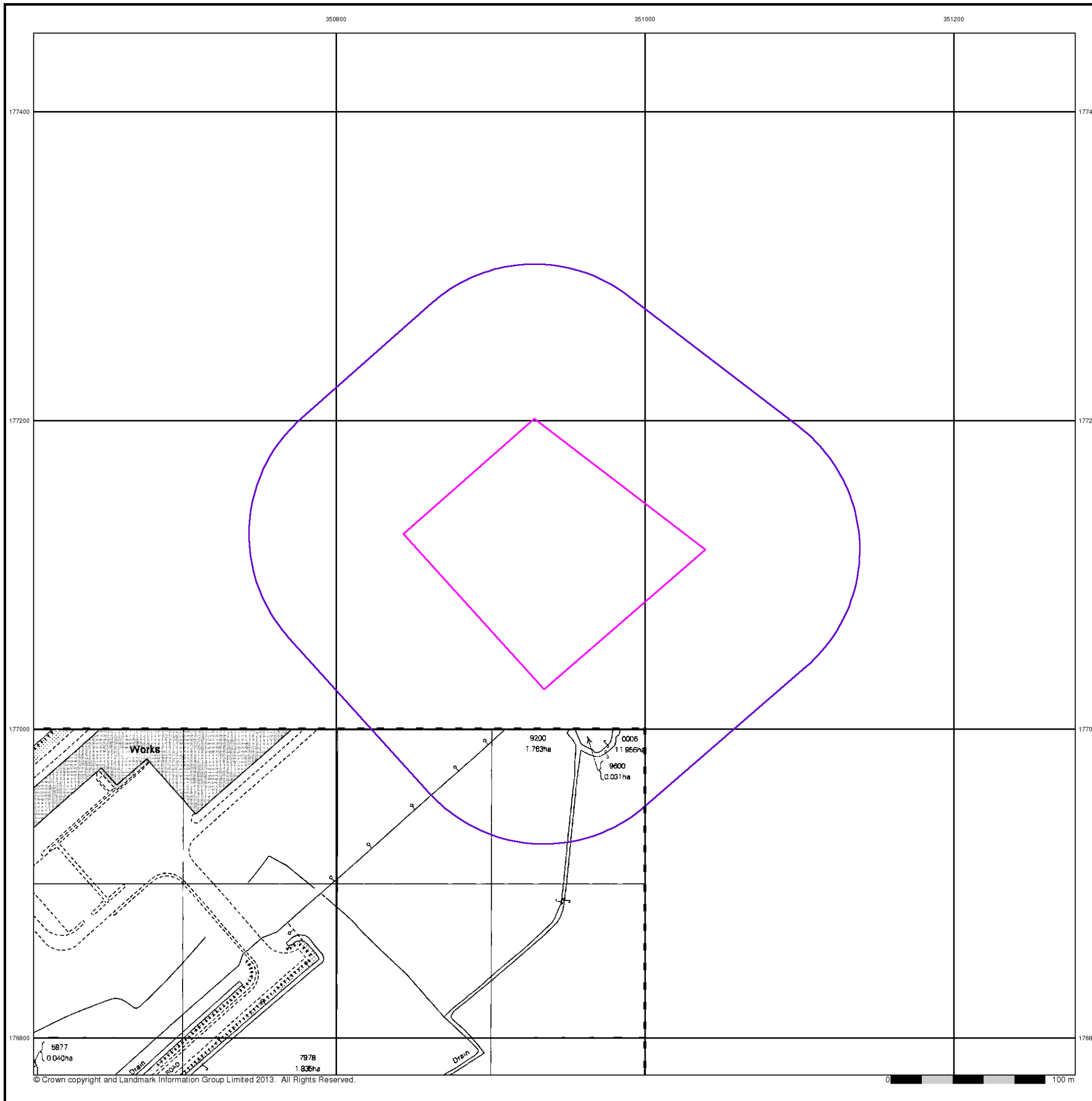


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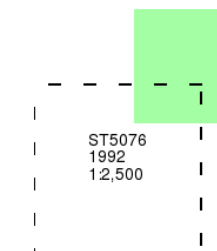
Large-Scale National Grid Data

Published 1992

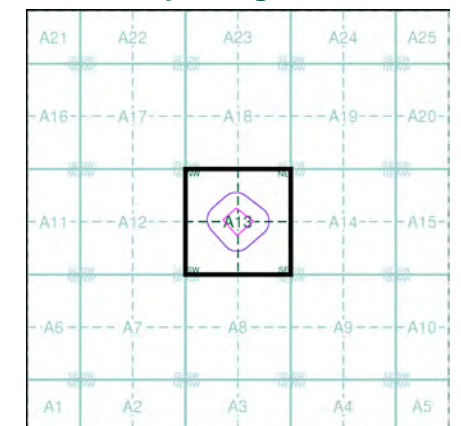
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

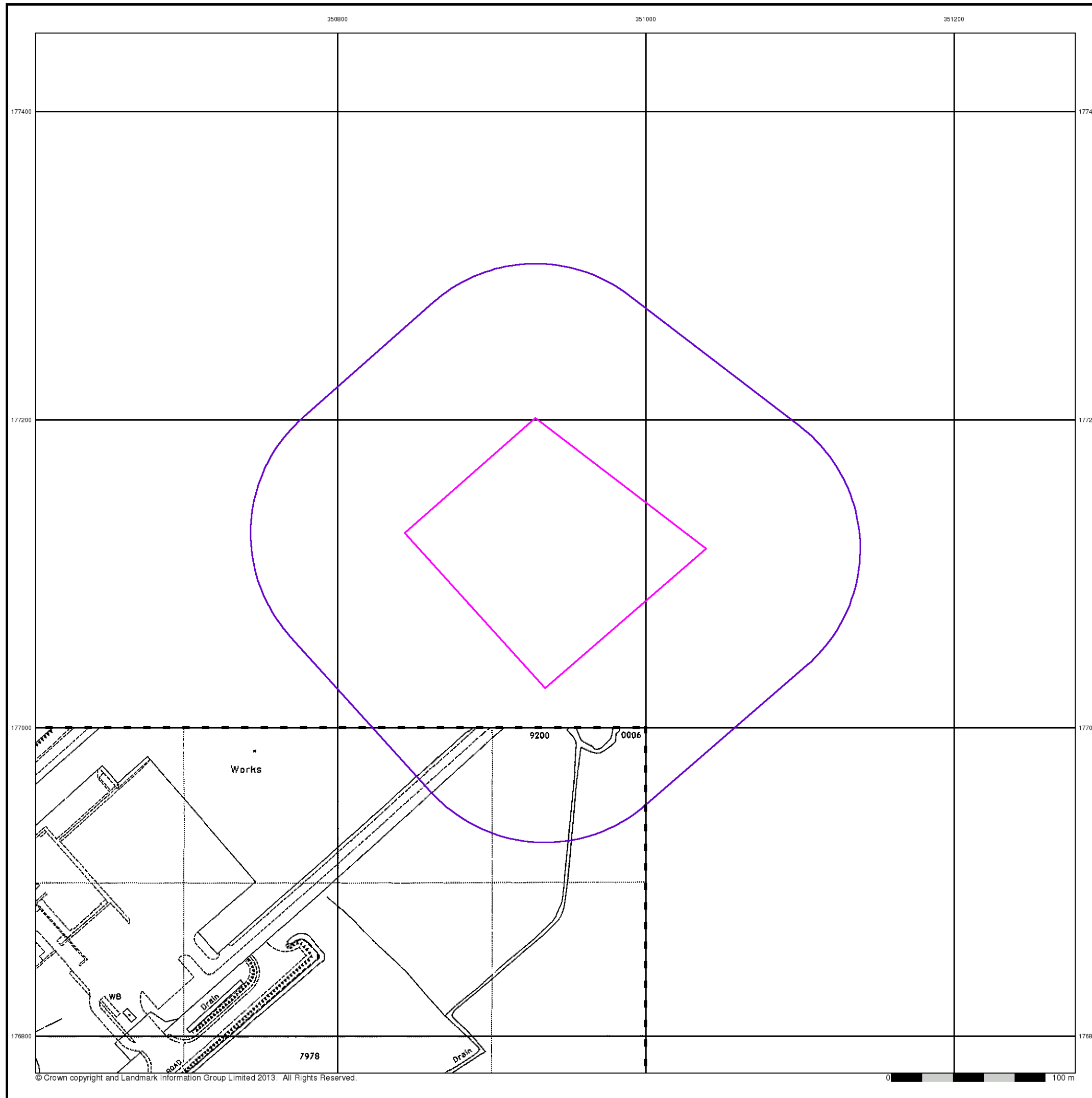


Order Details

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Site Details

Site at 350920, 177110



Large-Scale National Grid Data

Published 1992

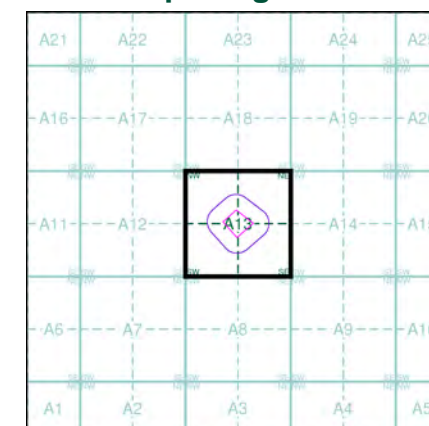
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

| | |
|-----------------------------|-----------------------------|
| ST5077SE 1992 1:1,250 | ST5177SW 1992 1:1,250 |
| | ST5176NW 1992 1:1,250 |

Historical Map - Segment A13

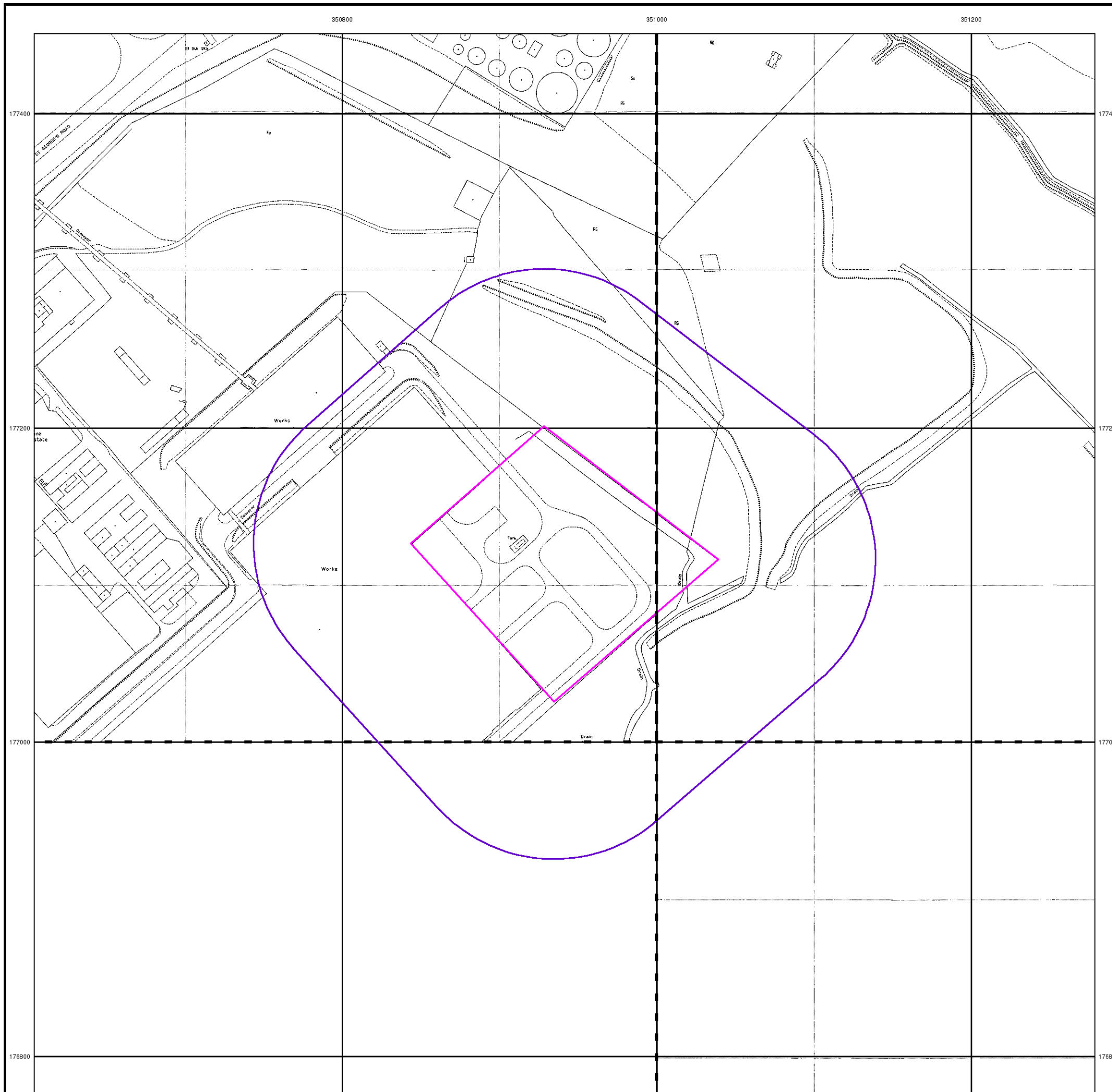


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Site Details

Site at 350920, 177110



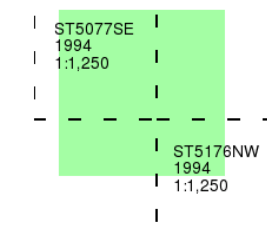
Large-Scale National Grid Data

Published 1994

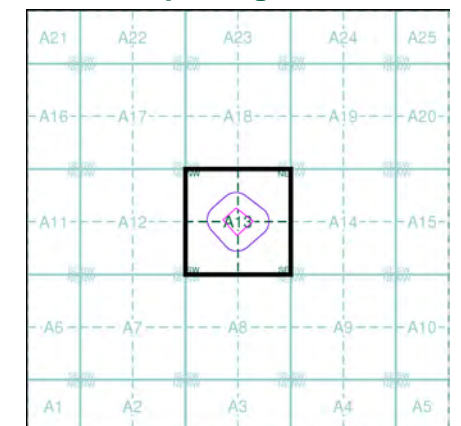
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

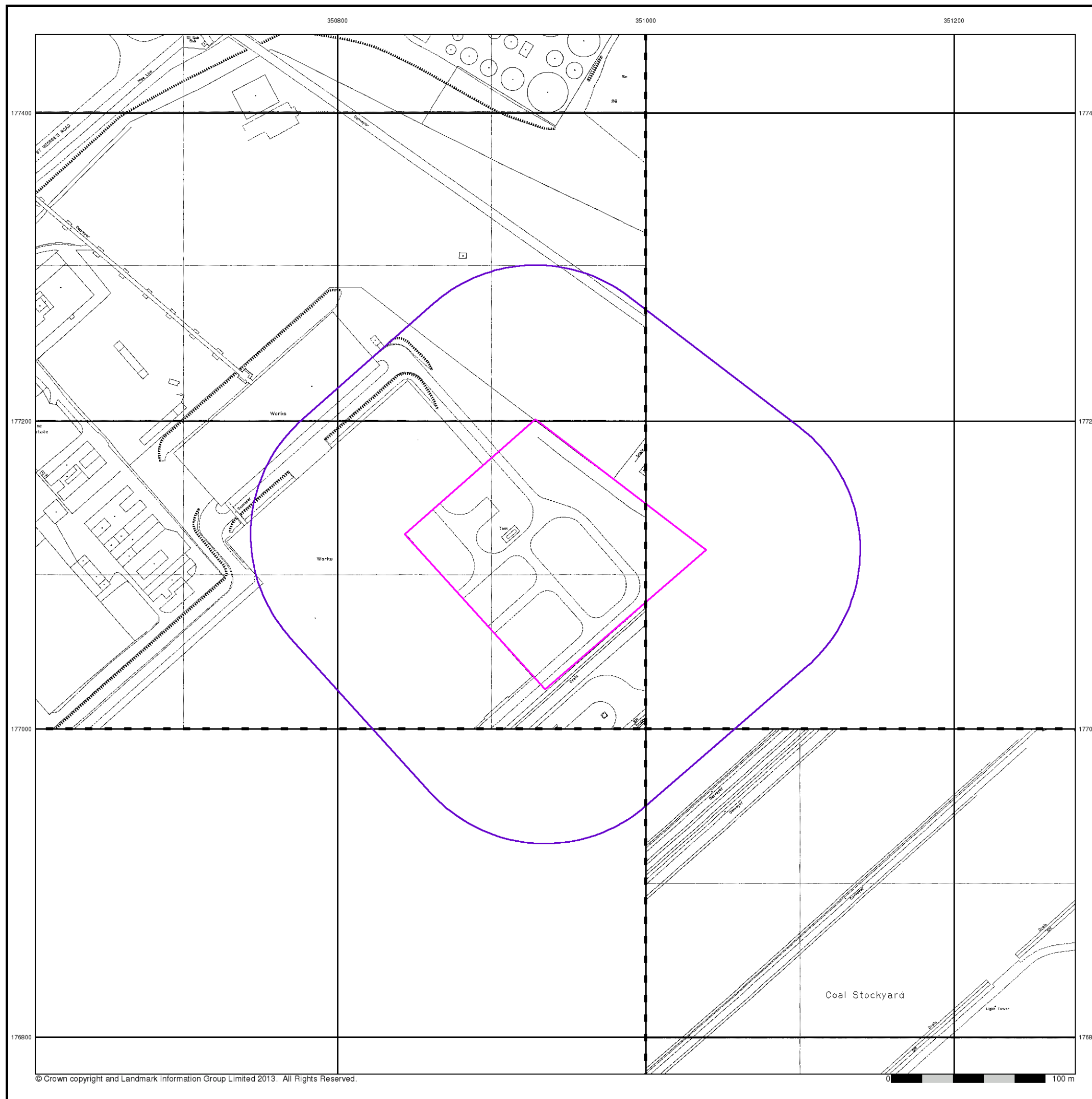


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



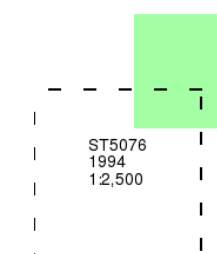
Large-Scale National Grid Data

Published 1994

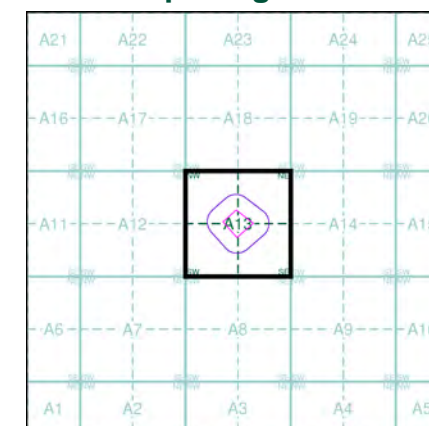
Source map scale - 1:2,500

'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

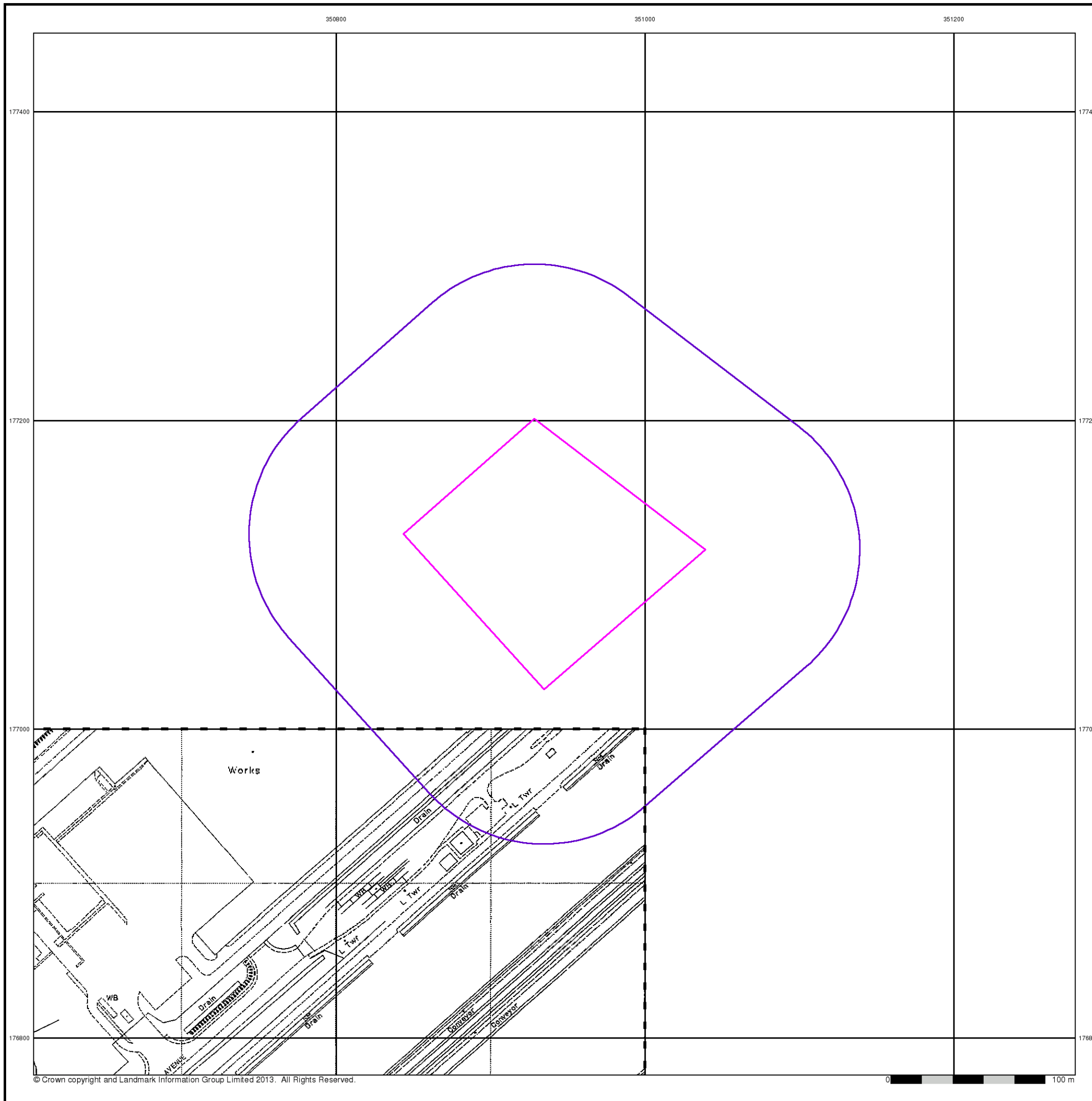


Order Details

Order Number: 50026892_1_1
 Customer Ref: C13081
 National Grid Reference: 350940, 177120
 Slice: A
 Site Area (Ha): 1.72
 Search Buffer (m): 100

Site Details

Site at 350920, 177110



Appendix E – Potential Polluting Substances (PPS)

| Material | Chemical Composition | Storage Location (at the existing facility) | Existing Annual use (litres unless specified) | Toxicity / Environmental Harm (risk phrases from MSDS and other information) | Risk of Environmental Harm (as per assessment by Etex) |
|---|--|---|---|--|--|
| Klubersynth CH2-100 | Ester Oil Vold | Oil Stores | 11000 | Do not allow product to reach groundwater, water course or sewage system | High |
| Brake Cleaner Aerosol 500ml | Naphtha (petroleum), hydrotreated light 25-50% Naphtha (petroleum), hydrotreated light 25-50% Carbon Dioxide 1-10% Propan-2-ol 20-30% | Engineering Stores | 288 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment | High |
| Triflow Lubricant Aerosol 500ml | 2-(Methoxymethylethoxy)-propanol 1-2.5% Butane 10-30% Naphtha (petroleum), hydrotreated heavy 2.5-10% Pentylacetate 1-2.5% Propane 10-30% White Spirit 10-30% | Engineering Stores | 216 | Harmful to aquatic organisms, may cause long-term effects in the aquatic environment R-Phases: R12, R65, R10, R66 and R51/53 | High |
| Essolube XT 301 (Lubricating Oil) | Calcium alkyl Phenate Sulphide 1.1% Zinc alkyl dithiophosphate (Xi, R38 R41) 1.4% Zinc alkyl dithiophosphate (N, R51/53) 1.3% | Oil Stores | 180 | Inherently biodegradable. R51/53 is toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Other R-Phases: R41, R36 and R38 | High |
| Rocol Belt Dressing Spray (Lubricant) 300ml | Cyclopentane >60% Carbon Dioxide Aerosol Propellant 5-15% | Engineering Stores | 151 | Harmful to aquatic organisms, may cause long-term effects in the aquatic environment. Insoluble in water. Readily absorbed into soil. Only slightly biodegradable. R-Phases: R11 | High |

| Material | Chemical Composition | Storage Location (at the existing facility) | Existing Annual use (litres unless specified) | Toxicity / Environmental Harm (risk phrases from MSDS and other information) | Risk of Environmental Harm (as per assessment by Etex) |
|--|---|--|---|--|--|
| Aquarius SSEP (Water Miscible Cutting Fluid) | Boric Acid with 2,2' Iminobis Ethanol 5-15% Tall Oil Fatty Acids, Diethanolamide 5-15% Long-Chain Hydroxyalkenyl Alkanolamide 5- 15% Fatty Acids, Tall Oil with Diethanolamine 5- 15% Diethylene Glycol 1-5% Ethanol, 2-Butoxyethoxy 1-5% Alcohols, branched and linear ethoxylated <1 2-Propanol 1-(2-Butoxy-1-Methylethoxy) 1- 5% | Oil Stores | 50 | R-Phases: R36/38, R50 and R41 R50 - toxic to aquatic organisms (Alcohols, branched and linear ethoxylated <1) | High |
| Paraffin Wax Emulsion | Paraffin waxes and hydrocarbon waxes | Line 1 & 2 Tanks and Plasters Plant | 1200 tonnes | Not toxic to the aquatic environment but may increase pH. H315 and H318. | Moderate |
| Potassium Sulphate | K ₂ O ₄ S | Plasters Plant, Line 1, 2 and Cove line tanks, Mezzanine Floor | 710 tonnes | Non toxic. Will cause harm to aquatic organisms in large quantities as is pH altering. | Moderate |
| Millifoam L (Tenace B) | Sodium alkyl sulphate | IBC Store, Line 1 & 2 Tanks | 500 tonnes | H315, H318, H317 Irritant. Biodegradable. Do not release to surface waters. Some components are harmful to aquatic life. | Moderate |
| Texten 84 (foam) | Sodium alkyl sulphate | IBC Store | 100 tonnes | H315, H318, H412 Irritant. Biodegradable. Do not release to surface waters. Harmful to aquatic life. | Moderate |

| Material | Chemical Composition | Storage Location (at the existing facility) | Existing Annual use (litres unless specified) | Toxicity / Environmental Harm (risk phrases from MSDS and other information) | Risk of Environmental Harm (as per assessment by Etex) |
|--|---|---|---|---|--|
| Retarden Liquid | Calcium salt of polycondensed amino acid in solution | IBC store | 48 tonnes | pH 12. Irritant. BOD loading | Moderate |
| Retarder Powder XCP | Calcium salt of polycondensed amino acid | Mezzanine floor and plasters plant | 3 tonnes | pH 12. Irritant. BOD loading | Moderate |
| Fluplast 40 | Calcium polydinaphthene methane sulfonate fluidiser (plasticiser) | Storage Tanks on Lines 1&2, IBC store and Mezzanine Floor | 2100 tonnes | Non-toxic and not classified. Do not release to surface waters. Low hazard to aquatic life. | Moderate |
| Glue (Exoflex 2590/VB from EOC UK Ltd) | Polyvinyl Alcohol based adhesive | Plasters Plant | 140 tonnes | Non-toxic and not classified. Do not release to surface waters. Not toxic to aquatic life. Contains biocide and svhc (boric acid) | Moderate |
| Diesel | Hydrocarbon | Diesel Storage Tanks | 500,000 | Do not release to surface waters. | Moderate |
| Nuto H 46 | Hydraulic fluid | Oil Stores | 2059 | Non-toxic. Very low water solubility. No adverse effects expected on aquatic organisms. Unlikely to bioaccumulate. | Moderate |
| Spartan EP | Lubricating oil | Oil Stores | 1305 | Non- toxic. When released into the environment, absorption to sediment & soil will be the predominant behaviour. Very low water solubility. | Moderate |
| Stucco (gypsum) | Hydrated calcium sulphate | Gypsum store, plaster mill and plaster plant (as plaster) | 450,000 tonnes | No associated risk phrases | Low |

| Material | Chemical Composition | Storage Location (at the existing facility) | Existing Annual use (litres unless specified) | Toxicity / Environmental Harm (risk phrases from MSDS and other information) | Risk of Environmental Harm (as per assessment by Etex) |
|----------------------------------|--|---|--|---|--|
| Starch | Amylose (20-30%), amylopectin (70-80%) | Line 1 & 2 silos & plasters plant | 3000 tonnes | No associated risk phrases | Low |
| Vermiculite | Hydrated magnesium aluminium silicate | Plasters Plant | 3000 tonnes: Intend to phase out use by end of 2023 | No associated risk phrases | Low |
| Dextrose | Glucose (C ₆ H ₁₂ O ₆) | Plasters Plant and Mezzanine Floor | 250 tonnes | No associated risk phrases | Low |
| Unirex EP 2 (Lubricating Grease) | Zinc alkyl dithiophosphate (Xi, R38 R41) 1.5% | Engineering Stores | 144 kilos | Ecotoxicity data indicates no adverse effects to aquatic organisms. Inherently biodegradable R- Phases: R38 and R41 | Low |
| Millcot K68 | No information. No reportable ingredients | Engineering Stores | 225 | Adverse effects to the aquatic environment not expected. Biodegradable. Bioaccumulation not expected. | Low |

Appendix F – Risk Classification Rationale

Identification of Unacceptable Risk

The method for risk evaluation is qualitative and is developed from the model provided in CIRIA C552 Contaminated Land Risk Assessment – a guide to good practice (DETR 2001). It involves classifying risk in terms of (a) magnitude of the potential consequence (severity) of occurrence and (b) the probability (likelihood) of occurrence. The risk rating derived is used to determine what action, if any, is needed to further investigate that risk and/or remediate to reduce risk to an acceptable level.

Task 1: Classification of Consequence

| Classification | Definition | Examples |
|----------------|--|---|
| Severe | <ul style="list-style-type: none"> Short-term (acute) risk to human health likely to result in “significant harm” (as defined in EPA90 Part 2a). Short-term (acute) risk of pollution of sensitive water resource. Short-term (acute) risk to an ecosystem, or organism forming part of an ecosystem. | <p>Unusually high concentration of toxic substance on the surface of a garden or recreation area.</p> <p>Major spillage of contamination from the site into controlled waters. EA Category 1 pollution incident. Closure of an abstraction point.</p> <p>Explosion, causing building collapse (and death if occupied).</p> |
| Medium | <p>Chronic damage to human health likely to result in “significant harm”.</p> <p>Pollution of sensitive water resource.</p> <p>Significant change in a particular ecosystem, or organism forming part of such ecosystem.</p> | <p>Concentration of contaminant from site exceeds generic or site specific assessment criteria for human health or water supply pipes. Presence of asbestos.</p> <p>Leaching of contaminants from a site to a principal or secondary (A) aquifer. Concentration exceeds DWS or EQS in Inner. Source Protection Zone (SPZ1). EA Category 2 pollution incident.</p> <p>Death of a species or loss of habitat within an area of national importance.</p> |
| Mild | <p>Exposure is unlikely to result in “significant harm” to human health.</p> <p>Pollution of non-sensitive water resource.</p> <p>Damage to sensitive buildings, structures and services or the environment.</p> | <p>Concentration of contaminant from site below generic or site-specific assessment criteria.</p> <p>Pollution of secondary (B or undifferentiated) aquifer. EA Category 3 pollution incident.</p> <p>Damage to a building rendering it unsafe to occupy.</p> <p>Death of a species or loss of habitat within an area of local importance.</p> <p>Loss of plants in garden or landscape areas (BS3882 limits exceeded).</p> |
| Minor | <p>Harm (but not significant harm) resulting in a financial loss or expenditure to resolve.</p> <p>Non-permanent human health effects.</p> <p>Easily repairable damage to buildings, structures and services.</p> | <p>Pollution of unproductive strata.</p> |

Task 2: Classification of Probability

| Classification | Definition |
|-----------------|--|
| High Likelihood | There is a pollution linkage and an event appears very likely in the short term and almost inevitable over the long term or there is actual evidence at the receptor of harm or pollution. |
| Likely | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. |
| Low Likelihood | There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term. |
| Unlikely | There is a pollution linkage but circumstances are such that it is improbable that an event would occur in the very long term. |

Task 3: Risk Estimation

| | | Potential Consequence | | | |
|-------------|-----------------|-----------------------|---------------|---------------|---------------|
| | | Severe | Medium | Mild | Minor |
| Probability | High Likelihood | Very high risk | High risk | Moderate risk | Low risk |
| | Likely | High risk | Moderate risk | Low risk | Low risk |
| | Low Likelihood | Moderate risk | Low risk | Low risk | Very low risk |
| | Unlikely | Low risk | Low risk | Very low risk | Very low risk |
| | No linkage | No risk | | | |

Task 4: Description of the Estimated Risks and Likely Action Required

| Risk | Action |
|----------------|--|
| Very High Risk | There is a high probability that severe harm could arise or there is evidence that severe harm is currently happening. This risk, if realised, is likely to result in substantial liability. Urgent investigation and remediation are required for the site in its existing state and for development. |
| High Risk | Harm is likely to arise. Realisation of the risk is likely to present a significant liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the long term. Remediation will probably be required for development. |
| Moderate Risk | There is a possibility that harm is likely to arise. 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 typically required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term. |
| Low Risk | It is possible that harm could arise but it is likely that this harm, if realised, would at worst normally be mild. Investigation is not normally required but could be useful to confirm a preliminary assessment. Remedial works are unlikely to be required or will be limited. |
| Very Low Risk | There is a low possibility that harm could arise. In the event of such harm being realised it is not likely to be severe. No further action recommended. |